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1.6 humanize 2.6.0

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1.7 netifaces 0.10.9

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1.8 gitdb 4.0.5

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1.9 resize-observer-polyfill 1.5.1

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1.10 backports-abc 0.5

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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1.11 dagre 0.8.5

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1.12 python-crontab 2.5.1

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1.21 memoize-one 5.2.1

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1.22 beautiful-soup 4.10.0

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1.23 pylint 2.11.1

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- * Bryce Guinta: maintainer, contributor
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- * Cara Vinson: astroid committer.
- * Guillaume Peillex: committer
- * ukasz Rogalski: committer.
- * Roy Williams (Lyft): committer

added check for implementing `__eq__` without implementing `__hash__`.

Added Python 3 check for accessing `Exception.message`.

Added Python 3 check for calling `encode/decode` with invalid codecs.

Added Python 3 check for accessing sys.maxint.
Added Python 3 check for bad import statements.
Added Python 3 check for accessing deprecated methods on the 'string' module,
various patches.

* Dmitri Prybysh: committer

multiple-imports, not-iterable, not-a-mapping, various patches.

* Jim Robertson: committer

Ex-maintainers:

* Sylvain Thenault (Logilab): main author / maintainer

* Torsten Marek (Google): committer / contributor

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* Amaury Forgeot d'Arc: check names imported from a module exists in the module

* Benjamin Niemann: allow block level enabling/disabling of messages

* Nathaniel Manista: suspicious lambda checking

* David Shea: invalid sequence and slice index

- * Carl Crowder: don't evaluate the value of arguments for 'dangerous-default-value'
- * Michal Nowikowski: wrong-spelling-in-comment,
wrong-spelling-in-docstring,
parallel execution on multiple CPUs and other patches.
- * David Lindquist: logging-format-interpolation warning.
- * Brett Cannon: Port source code to be Python 2/3 compatible, Python 3 checker.
- * Vlad Temian: redundant-unittest-assert and the JSON reporter.
- * Cosmin Poiean: unichr-builtin and improvements to bad-open-mode.
- * Viorel tirbu: intern-builtin warning.
- * Dan Goldsmith: support for msg-template in HTML reporter.
- * Chris Rebert: unidiomatic-typecheck.
- * Steven Myint: duplicate-except.
- * Radu Ciorba: not-context-manager and confusing-with-statement warnings.
- * Bruno Daniel: check_docs extension.
- * James Morgensen: ignored-modules option applies to import errors.
- * Cezar Elnazli: deprecated-method
- * Stphane Wirtel: nonlocal-without-binding
- * Laura Medioni (Logilab, on behalf of the CNES): misplaced-comparison-constant,
no-classmethod-decorator, no-staticmethod-decorator, too-many-nested-blocks,
too-many-boolean-expressions, unneeded-not,
wrong-import-order, ungrouped-imports,
wrong-import-position, redefined-variable-type
- * Aru Sahni: Git ignoring, regex-based ignores
- * Mike Frysinger: contributor.
- * Moiss Lpez (Vauxoo): Support for deprecated-modules in modules not installed,
Refactor wrong-import-order to integrate it with `isort` library
Add check too-complex with mccabe for cyclomatic complexity
Refactor wrong-import-position to skip try-import and nested cases

Add consider-merging-isinstance, superfluous-else-return

Fix consider-using-ternary for 'True and True and True or True' case

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* Yannick Brehon: contributor.

* Glenn Matthews: autogenerated documentation for optional extensions,
bug fixes and enhancements for docparams (ne check_docs) extension

* Elias Dorneles: minor adjust to config defaults and docs

* Yuri Bochkarev: Added epytext support to docparams extension.

* Alexander

Todorov: added new error conditions to 'bad-super-call',

Added new check for incorrect len(SEQUENCE) usage,

Added new extension for comparison against empty string constants,

Added new extension which detects comparing integers to zero,

Added new useless-return checker,

Added new try-except-raise checker

* Erik Eriksson - Added overlapping-except error check.

* Anthony Foglia (Google): Added simple string slots check.

* Derek Gustafson: contributor

* Petr Pulc: require whitespace around annotations

* John Paraskevopoulos: add 'differing-param-doc' and 'differing-type-doc'

* Martin von Gagern (Google): Added 'raising-format-tuple' warning.

* Ahirnish Pareek, 'keyword-arg-before-var-arg' check

* Daniel Miller: contributor.

* Bryce Quinta: contributor

* Martin Bati: contributor

Added new check for shallow copy of os.environ

* Jacques Kvam: contributor

* Brian Shaginaw: prevent error on exception check for functions

* Ioana Tagirta: fix bad thread instantiation check

- *
Reverb Chu: contributor
- * Tobias Hernstig: contributor
- * Konstantin Manna: contributor
- * Andreas Freimuth: fix indentation checking with tabs
- * Renat Galimov: contributor
- * Thomas Snowden: fix missing-docstring for inner functions
- * Mitchell Young: minor adjustment to docparams
- * Marianna Polatoglou: minor contribution for wildcard import check
- * Ben Green: contributor
- * Benjamin Freeman: contributor
- * Fureigh: contributor
- * Jace Browning: updated default report format with clickable paths
- * Sushobhit (sushobhit27): contributor
Added new check 'comparison-with-itself'.
Added new check 'useless-import-alias'.
Added support of annotations in missing-type-doc and missing-return-type-doc.
Added new check 'comparison-with-callable'.
Removed six package dependency.
Added new check 'chained-comparison'.
Added new check 'useless-object-inheritance'.
- * Mariatta Wijaya: contributor
Added new check `logging-fstring-interpolation`
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- * Jason
Owen: contributor
- * Mark Roman Miller: fix inline defs in too-many-statements
- * Adam Dangoor: contributor
- * Gary Tyler McLeod: contributor

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- * Roberto Leinardi: PyCharm plugin maintainer
- * Aivar Annamaa: contributor
- * Hornwitser: fix import graph
- * Yuri Gribov: contributor
- * Drew Risinger: committer (docs)
- * Ben James
- * Tomer Chachamu, Richard Goodman: simplifiable-if-expression
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- * Benjamin Drung: contributing Debian Developer
- * Scott Worley: contributor
- * Michael Hudson-Doyle
- * Lucas Cimon: contributor
- *
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- * Sergei Lebedev: contributor
- * Sasha Bagan

- * Pablo Galindo Salgado: contributor
Fix false positive 'Non-iterable value' with async comprehensions.
- * Matus Valo
- * Sardorbek Imomaliev: contributor
- * Justin Li (justinnhli)
- * Nicolas Dickreuter
- * Pascal Corpet
- * Svetoslav Neykov: contributor
- * Federico Bond: contributor
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- * Yory (yory8): contributor
- * Thomas Hisch: contributor
- * Clment Pit-Claudel : contributor
- * Goudcode: contributor
- * Paul Renvoise : contributor
- * Bluesheeptoken: contributor
- * Michael Scott Cuthbert: contributor
- * Pierre Sassoulas : maintainer, contributor
- * Nathan Marrow
- * Taewon Kim : contributor
- * Daniil Kharkov: contributor
- * Tyler N. Thieding: contributor
- * Zeb Nicholls: contributor
 - Made W9011 compatible with 'of' syntax in return types
- * Martin Vielsmaier: contributor

- * Agustin Toledo: contributor
- * Nicholas Smith: contributor
- * Peter Kolbus (Garmin): contributor
- *
Oisin Moran: contributor
- * Andrzej Klajnert: contributor
- * Andrs Prez Hortal: contributor
- * Niko Wenselowski: contributor
- * Danny Hermes: contributor
- * Eric Froemling: contributor
- * Robert Schweizer: contributor
- * Hugo van Kemenade: contributor
- * Mikhail Fesenko: contributor
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 - Added --list-msgs-enabled command
- * Rmi Cardona: contributor
- * Daniel Draper: contributor
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- * Pek Chhan: contributor

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- * Benny Mller: contributor
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- * Ethan Leba: contributor
- * Matj Grabovsk: contributor

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- * Frost Ming (frostming): contributor
- * Luigi Bertaco Cristofolini (luigibertaco): contributor
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- * Josselin Feist: contributor
- * David Cain: contributor
- * Pedro Algarvio (s0undt3ch): contributor
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- * Joshua Cannon: contributor
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 - Ignore function decorators signatures as well by similarities checker with "ignore-signatures" option enabled
 - Ignore class methods and nested functions signatures as well by similarities checker with "ignore-signatures" option enabled
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* Phil A. (flying-sheep): contributor

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* Hayden Richards (SupImDos): contributor

- Fixed "no-self-use" for async methods

- Fixed "docparams" extension for async functions and methods

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1.25 yup 0.32.11

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1.26 babel-plugin-istanbul 6.1.1

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1.27 react-dom 16.14.0

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1.29 chalk 4.1.2

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1.30 zeep 3.4.0

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1.31 pydantic 1.9.0

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1.33 react-sortable-hoc 1.11.0

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1.34 bcrypt 3.2.2

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1.37 django-cors-headers 3.13.0

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1.38 react-truncate 2.4.0

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1.43 react-loading-overlay 1.0.1

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1.44 protobuf 3.20.3

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1.45 react-router-dom 5.3.4

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1.46 regenerator-runtime 0.13.11

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1.48 robotframework-sshlibrary 3.8.0

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as follows:

- perf/recipes.pprint

Python License. This file includes a number of real-world examples of Markdown from the ActiveState Python Cookbook, used for doing some performance testing of markdown2.py.

- test/php-markdown-cases/...
test/php-markdown-extra-cases/...

GPL. These are from the MDTest package announced here:
<http://six.pairlist.net/pipermail/markdown-discuss/2007-July/000674.html>

- test/markdown.py

GPL
2 or BSD. A copy (currently old) of Python-Markdown -- the other Python Markdown implementation.

- test/markdown.php

BSD-style. This is PHP Markdown
(<http://michelf.com/projects/php-markdown/>).

- test/Markdown.pl: BSD-style

A copy of Perl Markdown (<http://daringfireball.net/projects/markdown/>).

MIT

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Thomas Moschny (redhat packaging, https://bugzilla.redhat.com/show_bug.cgi?id=461692)

Massimo Di Pierro (security fix, issue #29)

Nikhil Chelliah ("smarty-pants" extra, issue #42)

Tim Gray (html5 block tags, issue #57)

Ryan Doenges (github.com/rhdoenges, filter CLI, issue #72)

slomo (github.com/slomo, metadata extra, issue #78)

Joe Stump (@joestump, pull #90)

msabramo (github.com/msabramo, tox test setup)

Attila-Mihaly Balazs (github.com/cdman)

Taylan Aydinli (github.com/vape, pull #140)

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1.54 redux 4.2.1

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1.55 moment-timezone 0.5.43

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Copyright FAQ

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed? Yes!

4. Can I change or add to the font(s)? Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional

copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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1.61 robotframework 6.0.2

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1.62 parse 1.19.1

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1.63 robotframework-archivelibrary 0.4.2

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1.64 robotframework-requests 0.9.4

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1.65 uwsgi 2.0.22

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1.68 @babel/core 7.22.9

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1.69 @popperjs/core 2.11.8

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1.70 sh 2.0.6

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1.71 babel-jest 29.7.0

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1.73 bootstrap 5.3.2

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1.74 @reduxjs/toolkit 1.9.5

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1.78 @tanstack/react-query-devtools 4.36.1

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1.80 urllib3 1.26.18

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1.81 html5lib 1.1

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1.84 enum34 1.1.10

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1.90 json5 2.2.3

1.90.1 Available under license :

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1.91 moment 2.29.4

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1.92 qs 6.11.2

1.92.1 Available under license :

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1.93 werkzeug 2.3.8

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1.94 crypto-js 4.2.0

1.94.1 Available under license :

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1.95 pygments 2.17.2

1.95.1 Available under license :

```
# New ports collection makefile for:  python25\n' Comment

# Date created:      3 July 2003\n' Comment

# Whom:              Hye-Shik Chang <perky@FreeBSD.org>\n' Comment

#\n'      Comment

# $FreeBSD: ports/lang/python25/Makefile,v 1.145 2007/10/03 23:22:04 edwin Exp $\n' Comment

\n'      Text.Whitespace

'PORTNAME'  Name.Variable
'='        Operator
'\t'       Text.Whitespace
'python25'  Text
'\n'       Text.Whitespace

'PORTVERSION' Name.Variable
'='        Operator
'\t'       Text.Whitespace
'2'        Literal.Number
'.5.1'     Text
'\n'       Text.Whitespace

'CATEGORIES' Name.Variable
'='        Operator
'\t'       Text.Whitespace
```

```

'lang'    Text
' '       Text.Whitespace
'python'  Text
' '       Text.Whitespace
'ipv6'    Text
'\n'      Text.Whitespace

'MASTER_SITES' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}'       Literal.String.Interpol
          Literal.String.Interpol
'\n'      Text.Whitespace

'MASTER_SITE_SUBDIR' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}'       Literal.String.Interpol
'\n'      Text.Whitespace

'DISTFILES' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}'       Literal.String.Interpol
'\n'      Text.Whitespace

'\n'      Text.Whitespace

'MAINTAINER' Name.Variable
'='       Operator
'\t'      Text.Whitespace
'python@FreeBSD.org' Text
'\n'      Text.Whitespace

'COMMENT'  Name.Variable
'?='      Operator
'\t'      Text.Whitespace
'An'      Text
' '       Text.Whitespace
'interpreted' Text
' '       Text.Whitespace
'object-oriented' Text

```

```

''      Text.Whitespace
'programming' Text
''      Text.Whitespace
'language' Text
'\n'
    Text.Whitespace

'\n'    Text.Whitespace

'DIST_SUBDIR' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'python' Text
'\n'     Text.Whitespace

'WRKSR'   Name.Variable
'='      Operator
'\t\t'   Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_WRKSR' Name.Variable
'}'       Literal.String.Interpol
'/portbld.static' Text
'\n'      Text.Whitespace

'PATCH_WRKSR' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_WRKSR' Name.Variable
'}'       Literal.String.Interpol
'\n'      Text.Whitespace

'GNU_CONFIGURE' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'yes'     Text
'\n'      Text.Whitespace

'CONFIGURE_TARGET' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'--build' Text
'='      Operator
'${'      Literal.String.Interpol
'MACHINE_ARCH' Name.Variable
'}'       Literal.String.Interpol
'-portbld-freebsd'

```

Text

'\${' Literal.String.Interpol

'OSREL' Name.Variable

'}' Literal.String.Interpol

'\n' Text.Whitespace

'CONFIGURE_SCRIPT' Name.Variable

'=' Operator

'\t' Text.Whitespace

'../configure' Text

' ' Text.Whitespace

'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable

'=' Operator

'\t' Text.Whitespace

'OPT' Name.Variable

'=' Operator

"" Literal.String.Double

'\${' Literal.String.Interpol

'CFLAGS' Name.Variable

'}' Literal.String.Interpol

"" Literal.String.Double

' ' Text.Whitespace

'SVNVERSION' Name.Variable

'=' Operator

""echo freebsd"" Literal.String.Double

'\n' Text.Whitespace

'MAKE_ENV' Name.Variable

'=' Operator

'\t' Text.Whitespace

'VPATH' Name.Variable

'=' Operator

"" Literal.String.Double

'\${' Literal.String.Interpol

'PYTHON_WRKSRC'

 Name.Variable

'}' Literal.String.Interpol

"" Literal.String.Double

'\n' Text.Whitespace

'INSTALLS_SHLIB' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'INSTALL_TARGET' Name.Variable

'=' Operator

'\t' Text.Whitespace

'altinstall' Text

'\n' Text.Whitespace

'MAN1' Name.Variable

'=' Operator

'\t\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_VERSION' Name.Variable

'}' Literal.String.Interpol

'.1' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'USE_PYTHON' Name.Variable

'=' Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'PYTHON_VERSION' Name.Variable

'=' Operator

'\t' Text.Whitespace

'python2.5' Text

'\n' Text.Whitespace

'PYTHON_NO_DEPENDS' Name.Variable

'='

Operator

'\t' Text.Whitespace

'yes' Text

'\n' Text.Whitespace

'\n' Text.Whitespace

'SHARED_WRKSRC' Name.Variable

'=' Operator

'\t' Text.Whitespace

'\${' Literal.String.Interpol

'PYTHON_WRKSRC' Name.Variable

'}' Literal.String.Interpol

"/portbld.shared" Text

'\n' Text.Whitespace

'PLIST' Name.Variable

```

'='      Operator
'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'  Name.Variable
'}'      Literal.String.Interpol
'/PLIST'  Text
'\n'     Text.Whitespace

'PLIST_TEMPLATE' Name.Variable
'?='     Operator
'${'     Literal.String.Interpol
'PKGDIR'  Name.Variable
'}'      Literal.String.Interpol
'/pkg-plist' Text
'\n'     Text.Whitespace

'PLIST_SUB' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'PYVER'   Name.Variable
'='      Operator
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation

'S'       Name.Variable
'/python/' Punctuation
'}'      Literal.String.Interpol
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'PYVER_WITHPAT' Name.Variable
'='      Operator
'${'     Literal.String.Interpol
'PORTVERSION' Name.Variable
':'      Punctuation
'S'      Name.Variable
'/c/c/'  Punctuation
'}'      Literal.String.Interpol
'\n'     Text.Whitespace

'DEMODIR' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX'  Name.Variable
'}'      Literal.String.Interpol

```

```

'/share/examples/' Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'\n'     Text.Whitespace

'TOOLSDIR' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'PREFIX' Name.Variable
'}'
    Literal.String.Interpol
'/share/' Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'     Literal.String.Interpol
'\n'     Text.Whitespace

'\n'     Text.Whitespace

'BIN_SCRIPTS' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'idle'    Text
''        Text.Whitespace
'pydoc'   Text
''        Text.Whitespace
'python'  Text
''        Text.Whitespace
'python-shared' Text
''        Text.Whitespace
'smtpd.py' Text
''        Text.Whitespace
'python-config' Text
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'   Text.Whitespace
'python-shared-config' Text
'\n'     Text.Whitespace

'BINLINKS_SUB' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'-e'     Text
''        Text.Whitespace
"'s,smtpd,smtpd${PYTHON_VER},'" Literal.String.Single

```

```

''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'-e'
    Text
''      Text.Whitespace
"s,(idle|pydoc|python-shared|python),\\1${PYTHON_VER}," Literal.String.Single
'n\\n'    Text.Whitespace

'OPTIONS' Name.Variable
'='      Operator
'\t'     Text.Whitespace
'THREADS' Text
''      Text.Whitespace
"Enable thread support" Literal.String.Double
''      Text.Whitespace
'on'     Text
''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'HUGE_STACK_SIZE' Text
''      Text.Whitespace
"Use a larger thread stack" Literal.String.Double
''      Text.Whitespace
'off'    Text
''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'UCS4'    Text
''      Text.Whitespace
"Use UCS4 for unicode support" Literal.String.Double
''      Text.Whitespace
'on'     Text
''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'PYMALLOC'
    Text
''      Text.Whitespace
"Use python's internal malloc" Literal.String.Double
''      Text.Whitespace
'on'     Text
''      Text.Whitespace
'\\n'    Literal.String.Escape

```



```

\t\t'    Text.Whitespace
'IPV6'    Text
''        Text.Whitespace
'''Enable IPv6 support''' Literal.String.Double
''        Text.Whitespace
'on'      Text
''        Text.Whitespace
'\\n'     Literal.String.Escape

\t\t'    Text.Whitespace
'FPECTL'  Text
''        Text.Whitespace
'''Enable floating point exception handling''' Literal.String.Double
''        Text.Whitespace
'off'     Text
'\n\n'    Text.Whitespace

'.include <bsd.port.pre.mk>\n' Comment.Preproc

'\n'      Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'MLINKS'  Name.Variable
'='        Operator
\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'       Literal.String.Interpol
'.1'
    Text
''        Text.Whitespace
'python.1' Text
'\n'      Text.Whitespace

'PLIST_SUB' Name.Variable
'+='      Operator
\t'       Text.Whitespace
'IF_DEFAULT' Name.Variable
'='       Operator
''''      Literal.String.Double
'\n'      Text.Whitespace

'.else\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator

```

```

'\t'      Text.Whitespace
'IF_DEFAULT' Name.Variable
'='       Operator
'"@comment"' Literal.String.Double
'\n'      Text.Whitespace

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

'# workaround for a bug in base curses.h.\n' Comment

'CFLAGS'   Name.Variable
'+='       Operator
'\t'      Text.Whitespace
'-D__wchar_t' Text
'='       Operator
'wchar_t'  Text
'\n'      Text.Whitespace

'\n'      Text.Whitespace

'.if !defined(WITHOUT_THREADS)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='       Operator
'\t'      Text.Whitespace
'--with-threads'
Text
'\n'      Text.Whitespace

'CFLAGS'   Name.Variable
'+='       Operator
'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'}'       Literal.String.Interpol
'\n'      Text.Whitespace

'.if defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

'CFLAGS'   Name.Variable
'+='       Operator
'\t\t'    Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='       Operator
'0x20000'  Text
'\n'      Text.Whitespace

```

```

'.else\n'    Comment.Preproc

'CFLAGS'    Name.Variable
'+='        Operator
'\t\t'      Text.Whitespace
'-DTHREAD_STACK_SIZE' Text
'='         Operator
'0x100000'  Text
'\n'        Text.Whitespace

```

```

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)\n' Comment.Preproc

```

```

'CONFIGURE_ENV' Name.Variable
'+='        Operator
'\t\t'      Text.Whitespace
'LDFLAGS'    Name.Variable
'='         Operator
'''         Literal.String.Double
'${'        Literal.String.Interpol
'PTHREAD_LIBS'
Name.Variable
'}'         Literal.String.Interpol
''          Literal.String.Double
'${'        Literal.String.Interpol
'LDFLAGS'    Name.Variable
'}'         Literal.String.Interpol
'''         Literal.String.Double
'\n'        Text.Whitespace

```

```

'.else\n'    Comment.Preproc

```

```

'CONFIGURE_ARGS' Name.Variable
'+='        Operator
'\t'        Text.Whitespace
'--without-threads' Text
'\n'        Text.Whitespace

```

```

'.if defined(LDFLAGS)\n' Comment.Preproc

```

```

'CONFIGURE_ENV' Name.Variable
'+='        Operator
'\t\t'      Text.Whitespace
'LDFLAGS'    Name.Variable
'='         Operator
'''         Literal.String.Double
'${'        Literal.String.Interpol
'LDFLAGS'    Name.Variable

```

```

'}'      Literal.String.Interpol
'"'"'    Literal.String.Double
'\n'     Text.Whitespace

'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'\n'     Text.Whitespace

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n'
Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='     Operator
'\t'     Text.Whitespace
'--enable-unicode' Text
'='      Operator
'ucs4'   Text
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'.if defined(WITHOUT_PYMALLOC)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='     Operator
'      ' Text.Whitespace
'--without-pymalloc' Text
'\n'     Text.Whitespace

'.endif\n' Comment.Preproc

'\n'     Text.Whitespace

'.if ${ARCH} == i386\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='     Operator
'\t'     Text.Whitespace
'X86_ONLY' Name.Variable
'='      Operator
'"'"'    Literal.String.Double
'\n'     Text.Whitespace

'.else\n' Comment.Preproc

```

```

'PLIST_SUB' Name.Variable
'+='      Operator
'\t'      Text.Whitespace
'X86_ONLY' Name.Variable
'='      Operator
'"@comment "' Literal.String.Double
'\n'      Text.Whitespace

'.endif\n'
    Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n' Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
' '      Text.Whitespace
'32BIT_ONLY' Name.Variable
'='      Operator
'"@comment "' Literal.String.Double
'\n'      Text.Whitespace

'.else\n'    Comment.Preproc

'PLIST_SUB' Name.Variable
'+='      Operator
' '      Text.Whitespace
'32BIT_ONLY' Name.Variable
'='      Operator
'"'"'      Literal.String.Double
'\n'      Text.Whitespace

'.endif\n'    Comment.Preproc

'.if ${ARCH} == sparc64\n' Comment.Preproc

'CFLAGS' Name.Variable
'+='      Operator
' '      Text.Whitespace
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'='      Operator
'900'     Literal.Number
'\n'      Text.Whitespace

'.endif\n'    Comment.Preproc

'\n'      Text.Whitespace

```

```
'.if !exists(/usr/bin/ypcat) # the world with NO_NIS\n' Comment.Preproc
```

```
'PLIST_SUB' Name.Variable
```

```
'+='
```

```
Operator
```

```
'\t' Text.Whitespace
```

```
'NO_NIS' Name.Variable
```

```
'=' Operator
```

```
""@comment "" Literal.String.Double
```

```
'\n' Text.Whitespace
```

```
'.else\n' Comment.Preproc
```

```
'PLIST_SUB' Name.Variable
```

```
'+='
```

```
Operator
```

```
'\t' Text.Whitespace
```

```
'NO_NIS' Name.Variable
```

```
'=' Operator
```

```
"""" Literal.String.Double
```

```
'\n' Text.Whitespace
```

```
'.endif\n' Comment.Preproc
```

```
'\n' Text.Whitespace
```

```
'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc
```

```
'CONFIGURE_ARGS' Name.Variable
```

```
'+='
```

```
Operator
```

```
' ' Text.Whitespace
```

```
'--enable-ipv6' Text
```

```
'\n' Text.Whitespace
```

```
'.else\n' Comment.Preproc
```

```
'CONFIGURE_ARGS' Name.Variable
```

```
'+='
```

```
Operator
```

```
' ' Text.Whitespace
```

```
'--disable-ipv6' Text
```

```
'\n' Text.Whitespace
```

```
'.endif\n' Comment.Preproc
```

```
'\n' Text.Whitespace
```

```
'.if defined(WITH_FPECTL)\n' Comment.Preproc
```

```
'CONFIGURE_ARGS' Name.Variable
```

```

'+='      Operator
' '      Text.Whitespace
'--with-fpectl'
Text
'\n'      Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'      Text.Whitespace

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text
' '      Text.Whitespace
'plat-freebsd5' Text
' '      Text.Whitespace
'plat-freebsd6' Text
'\n'      Text.Whitespace

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text
' '      Text.Whitespace
'plat-freebsd5' Text
' '      Text.Whitespace
'plat-freebsd7' Text
'\n'      Text.Whitespace

'.else\n'   Comment.Preproc

'PLATFORMS' Name.Variable
'='      Operator
'plat-freebsd4' Text
' '      Text.Whitespace
'plat-freebsd6' Text
' '      Text.Whitespace
'plat-freebsd7' Text
'\n'      Text.Whitespace

'.endif\n'  Comment.Preproc

'\n'      Text.Whitespace

'pre-patch' Name.Function

```

```

':'      Operator
'\n'     Text.Whitespace

'\t'
    Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'${'     Literal.String.Interpol
'WRKSR'   Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'${'     Literal.String.Interpol
'SHARED_W' Name.Variable
'}'      Literal.String.Interpol
'/Modules' Text
'\n\t'    Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'-e'     Text
''        Text.Whitespace
'''1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},''' Literal.String.Single
''        Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'    Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_W' Name.Variable
'}'      Literal.String.Interpol
'/Tools/scripts/pydoc' Text
''        Text.Whitespace
'>'     Text
''

    Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'      Literal.String.Interpol
'/pydoc2.5' Text
'\n\t'    Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'-e'     Text
''        Text.Whitespace

```



```

'''1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},''' Literal.String.Single
''      Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'      Literal.String.Interpol
'/Tools/scripts/idle' Text
''       Text.Whitespace
'>'      Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'      Literal.String.Interpol
'/idle2.5' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'SED'     Name.Variable
'}'      Literal.String.Interpol
''

    Text.Whitespace
'-e'      Text
''       Text.Whitespace
'''1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},''' Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/smtpd.py' Text
''       Text.Whitespace
'>'      Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'      Literal.String.Interpol
'/smtpd2.5.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'      Text
''       Text.Whitespace
'\\n'    Literal.String.Escape

```

```

\t\t'    Text.Whitespace
"s,/usr/doc/python-docs-,{PREFIX}/share/doc/python,g" Literal.String.Single
' '      Text.Whitespace
'\n\n'   Literal.String.Escape

\t\t'
    Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/pydoc.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
' '      Text.Whitespace
'-e'     Text
' '      Text.Whitespace
'\n\n'   Literal.String.Escape

\t\t'    Text.Whitespace
's|^\\( *prefixes = .*\\)\\$\\$|\\1, "${X11BASE}"|g" Literal.String.Single
' '      Text.Whitespace
'\n\n'   Literal.String.Escape

\t\t'    Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'      Literal.String.Interpol
'/Lib/site.py' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
' '      Text.Whitespace
'-e'     Text
' '      Text.Whitespace
'\n\n'   Literal.String.Escape

\t\t'
    Text.Whitespace
"s|^\\t\\(\\.ASDLGEN.*\\)\\$\\$|\\t${TRUE}|g" Literal.String.Single
' '      Text.Whitespace
'\n\n'   Literal.String.Escape

\t\t'    Text.Whitespace
'${'     Literal.String.Interpol

```

```

'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'  Text.Whitespace
'${'      Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'-e'      Text
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
"'s|*\\(\\.INSTALL_SCRIPT.*\\)python-config$$|#port \\1|'" Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Makefile.pre.in' Text
'\n\n\t'  Text.Whitespace
'${'      Literal.String.Interpol
'SED'     Name.Variable
'}'
    Literal.String.Interpol
''        Text.Whitespace
'-e'      Text
''        Text.Whitespace
"'s|^#!.*|#!${PREFIX}/bin/${PYTHON_VERSION}|" Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}'      Literal.String.Interpol
'/Misc/python-config.in' Text
''        Text.Whitespace
'>'      Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'      Literal.String.Interpol
'/'        Text
'${'      Literal.String.Interpol
'PYTHON_VERSION' Name.Variable

```

```

'}'      Literal.String.Interpol
'-config' Text
'\n\t'   Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s|^/#!.*|#!${PREFIX}/bin/${PYTHON_VERSION:S/thon/thon-shared/})|'"
Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'${'     Literal.String.Interpol
'PATCH_WKRSRC' Name.Variable
'}'      Literal.String.Interpol
'/Misc/python-config.in' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'WRKDIR'   Name.Variable
'}'      Literal.String.Interpol
'/'       Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'      Punctuation
'S'       Name.Variable
'/thon/thon-shared/' Punctuation
'}'      Literal.String.Interpol
'-config' Text
'\n\n'   Text.Whitespace

'.if defined(WITH_FPECTL) && ${ARCH} == i386\n' Comment.Preproc

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'MKDIR'   Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'WKRSRC'   Name.Variable
'}'
        Literal.String.Interpol
'/Modules' Text
'\n\t'   Text.Whitespace

```

```

'${'      Literal.String.Interpol
'ECHO'     Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'''fpectl fpectlmodule.c''' Literal.String.Double
''        Text.Whitespace
'>>'      Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'WRKSRC'   Name.Variable
'}'       Literal.String.Interpol
'/Modules/Setup.dist' Text
'\n'      Text.Whitespace

'.endif\n' Comment.Preproc

'\n'      Text.Whitespace

'post-configure' Name.Function
':'       Operator
'\n'      Text.Whitespace

'\t'      Text.Whitespace
'${'      Literal.String.Interpol
'TAR'     Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-C'      Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'WRKSRC'   Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-cf'
    Text
''        Text.Whitespace
'-'       Text
''        Text.Whitespace
':'       Text
''        Text.Whitespace
'|'       Punctuation
''        Text.Whitespace
'${'      Literal.String.Interpol
'TAR'     Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-C'      Text
''        Text.Whitespace

```

```

'${'      Literal.String.Interpol
'SHARED_WKSRC' Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-xf'     Text
''        Text.Whitespace
'-'       Text
'\n\t'    Text.Whitespace
'${'      Literal.String.Interpol
'LN'      Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-sf'     Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'PYTHON_WKSRC' Name.Variable
'}'       Literal.String.Interpol
'/Lib'    Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'WRKSRC'
    Name.Variable
'}'       Literal.String.Interpol
'/Lib'    Text
'\n\t'    Text.Whitespace
'${'      Literal.String.Interpol
'SED'     Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(LDLIBRARY=\).*$$,\\1libpython$$ (VERSION).so," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(BLDLIBRARY=\).*$$,\\1-L. -lpython$$ (VERSION)," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'-e'      Text
''        Text.Whitespace
"s,^\(CFLAGSFORSHARED=\).*$$,\\1$$ (CCSHARED)," Literal.String.Single
''        Text.Whitespace
'\\n'     Literal.String.Escape

```

```

\t\t'    Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\(Makefile Modules/config.c:.*\\)Makefile.pre,\\1,"
Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\((BUILDPYTHON)\\:.*\\).(LIBRARY),\\1," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'-e'     Text
''       Text.Whitespace
"s,^\\((BUILDPYTHON):.*\\).(LIBRARY),\\1," Literal.String.Single
''       Text.Whitespace
'\\n'    Literal.String.Escape

\t\t'    Text.Whitespace
'${'     Literal.String.Interpol
'WRKSR'  Name.Variable
'}'      Literal.String.Interpol
'/Makefile' Text
''       Text.Whitespace
'>'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'SHARED_WRKSR' Name.Variable
'}'      Literal.String.Interpol
'/Makefile' Text
'\n\n'   Text.Whitespace

'pre-build' Name.Function
':'       Operator
'\n'
    Text.Whitespace

\t'      Text.Whitespace
'cd'     Name.Builtin
''       Text.Whitespace
'${'     Literal.String.Interpol
'SHARED_WRKSR' Name.Variable
'}'      Literal.String.Interpol

```

```

';'      Punctuation
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'SETENV'  Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'MAKE_ENV' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'MAKE'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'lib'     Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.so'     Text
''       Text.Whitespace
'python'  Text
';'      Punctuation
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t'     Text.Whitespace
'${'     Literal.String.Interpol
'LN'     Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-f'     Text
''       Text.Whitespace
'lib'     Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.so'     Text
''       Text.Whitespace
'lib'     Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.so.1'   Text
';'      Punctuation

```



```

''      Text.Whitespace
'\\n'   Literal.String.Escape

't'     Text.Whitespace
'${'    Literal.String.Interpol
'LN'    Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'-f'    Text
''      Text.Whitespace
'python' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'
Punctuation
'S'     Name.Variable
'/thon/thon-shared/' Punctuation
'}'     Literal.String.Interpol
'\n\n'  Text.Whitespace

'pre-su-install' Name.Function
':'     Operator
'\n'    Text.Whitespace

'.for platform in ${PLATFORMS}\n' Comment.Preproc

't'     Text.Whitespace
'${'    Literal.String.Interpol
'MKDIR' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'     Literal.String.Interpol
'/'     Text
'${'    Literal.String.Interpol
'platform' Name.Variable
'}'     Literal.String.Interpol
'\n'    Text.Whitespace

'.for file in IN.py regen\n' Comment.Preproc

't'     Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_DATA' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace

```

```

'${'      Literal.String.Interpol
'WRKSR'   Name.Variable
'}'
  Literal.String.Interpol
'/Lib/'   Text
'${'      Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
'/'       Text
'${'      Literal.String.Interpol
'file'    Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'\\n'     Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'      Literal.String.Interpol
'/'       Text
'${'      Literal.String.Interpol
'platform' Name.Variable
'}'      Literal.String.Interpol
'/'       Text
'\n'      Text.Whitespace

'.endfor\n' Comment.Preproc

'.endfor\n' Comment.Preproc

'\n'      Text.Whitespace

'pre-install' Name.Function
':'       Operator
'\n'      Text.Whitespace

'\t'      Text.Whitespace
'${'      Literal.String.Interpol
'CAT'     Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'${'
  Literal.String.Interpol
'PLIST_TEMPLATE' Name.Variable
'}'      Literal.String.Interpol
''        Text.Whitespace
'|'       Punctuation
''        Text.Whitespace

```

```
'${'      Literal.String.Interpol
'AWK'     Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'\{ print $$0; } \\n\\t/LIBDIR.*\\.py$$/ && !\\/\\bad/ { print $$0 "o"; print $$0 "c"; }\\' Literal.String.Single
't'       Text.Whitespace
'>'       Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'PLIST'   Name.Variable
'}'       Literal.String.Interpol
'\\n\\n'   Text.Whitespace
```

```
"t@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\\n" Comment
```

```
't'       Text.Whitespace
'('       Operator
'['       Operator
''        Text.Whitespace
'-f'      Text
''        Text.Whitespace
'${'      Literal.String.Interpol
'WRKSRC'  Name.Variable
'}'       Literal.String.Interpol
'/.without_own_sha'
Text
''        Text.Whitespace
']'       Operator
''        Text.Whitespace
'&&'      Operator
''        Text.Whitespace
'\\n\\n'   Literal.String.Escape

'tt'      Text.Whitespace
'${'      Literal.String.Interpol
'GREP'    Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'-v'      Text
''        Text.Whitespace
"'lib-dynload/_sha'" Literal.String.Single
''        Text.Whitespace
'${'      Literal.String.Interpol
'PLIST'   Name.Variable
'}'       Literal.String.Interpol
''        Text.Whitespace
'>'       Text
''        Text.Whitespace
```

```

'${'      Literal.String.Interpol
'PLIST'    Name.Variable
'}'        Literal.String.Interpol
'.tmp'     Text
''         Text.Whitespace
'&&'      Operator
''         Text.Whitespace
'\\n'      Literal.String.Escape

'\t\t'    Text.Whitespace
'${'      Literal.String.Interpol
'CAT'     Name.Variable
'}'
          Literal.String.Interpol
''        Text.Whitespace
'${'      Literal.String.Interpol
'PLIST'    Name.Variable
'}'        Literal.String.Interpol
'.tmp'     Text
''         Text.Whitespace
'>'       Text
''         Text.Whitespace
'${'      Literal.String.Interpol
'PLIST'    Name.Variable
'}'        Literal.String.Interpol
')'        Operator
''         Text.Whitespace
'||'       Operator
''         Text.Whitespace
'${'      Literal.String.Interpol
'TRUE'     Name.Variable
'}'        Literal.String.Interpol
'\n\n'     Text.Whitespace

'post-install' Name.Function
':'        Operator
'\n'       Text.Whitespace

'\t@# install config providers\n' Comment

'\t'       Text.Whitespace
'${'      Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'        Literal.String.Interpol
''         Text.Whitespace
'${'      Literal.String.Interpol
'WRKDIR'    Name.Variable
'}'        Literal.String.Interpol

```

```

/'
    Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'    Literal.String.Interpol
'-config' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'    Literal.String.Interpol
'/bin'  Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'    Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'    Literal.String.Interpol
/'      Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'     Punctuation
'S'     Name.Variable
'/thon/thon-shared/' Punctuation
'}'    Literal.String.Interpol
'-config' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'    Literal.String.Interpol
'/bin'  Text
'\n\n'  Text.Whitespace

'\t@#
shared version of executable and library\n' Comment

```

```

'\t'    Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'    Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'SHARED_WKSRC' Name.Variable
'}'    Literal.String.Interpol
'/lib'  Text
'${'    Literal.String.Interpol
'PYTHON_VERSION' Name.Variable

```

'}'	Literal.String.Interpol
'.so.1'	Text
' '	Text.Whitespace
'\\n'	Literal.String.Escape
'\t\t'	Text.Whitespace
'\${'	Literal.String.Interpol
'PREFIX'	Name.Variable
'}'	Literal.String.Interpol
'/lib'	Text
'\n\t'	Text.Whitespace
'cd'	Name.Builtin
' '	Text.Whitespace
'\${'	Literal.String.Interpol
'PREFIX'	Name.Variable
'}'	Literal.String.Interpol
'/lib'	Text
','	Punctuation
' '	Text.Whitespace
'\${'	Literal.String.Interpol
'LN'	Name.Variable
'}'	Literal.String.Interpol
' '	Text.Whitespace
'-sf'	Text
' '	Text.Whitespace
'lib'	Text
'\${'	Literal.String.Interpol
'PYTHON_VERSION'	Name.Variable
'}'	Literal.String.Interpol
'.so.1'	Text
' '	Text.Whitespace
'\\n'	Literal.String.Escape
'\t\t'	Text.Whitespace
'lib'	Text
'\${'	Literal.String.Interpol
'PYTHON_VERSION'	Name.Variable
'}'	Literal.String.Interpol
'.so'	Text
'\n\t'	Text.Whitespace
'\${'	Literal.String.Interpol
'LN'	Name.Variable
'}'	Literal.String.Interpol
' '	Text.Whitespace
'-sf'	Text
' '	Text.Whitespace
'\${'	Literal.String.Interpol

```

'PREFIX'    Name.Variable
'}'        Literal.String.Interpol
'/lib/lib'  Text
'${'       Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'        Literal.String.Interpol
'.so'      Text
''
    Text.Whitespace
'${'       Literal.String.Interpol
'PYTHONPREFIX_LIBDIR' Name.Variable
'}'        Literal.String.Interpol
'/config'  Text
'\n\t'     Text.Whitespace
'${'       Literal.String.Interpol
'INSTALL_PROGRAM' Name.Variable
'}'        Literal.String.Interpol
''         Text.Whitespace
'\\n'      Literal.String.Escape

'\t\t'     Text.Whitespace
'${'       Literal.String.Interpol
'SHARED_WKSR' Name.Variable
'}'        Literal.String.Interpol
'/'        Text
'${'       Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':'        Punctuation
'S'        Name.Variable
'/thon/thon-shared/' Punctuation
'}'        Literal.String.Interpol
''         Text.Whitespace
'\\n'      Literal.String.Escape

'\t\t'     Text.Whitespace
'${'       Literal.String.Interpol
'PREFIX'    Name.Variable
'}'        Literal.String.Interpol
'/bin'      Text
'\n\n'     Text.Whitespace

'\t@# additional files installing by ports\n'
Comment

'\t'       Text.Whitespace
'${'       Literal.String.Interpol
'INSTALL_SCRIPT' Name.Variable
'}'        Literal.String.Interpol

```

```

''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/pydoc2.5' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/idle2.5' Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol
'WRKDIR' Name.Variable
'}'     Literal.String.Interpol
'/smtpd2.5.py' Text
''      Text.Whitespace
'${'    Literal.String.Interpol
'PREFIX' Name.Variable
'}'     Literal.String.Interpol
'/bin'   Text
'\n\t'  Text.Whitespace
'@'      Text
'${'    Literal.String.Interpol
'MKDIR'  Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'
    Literal.String.Interpol
'MANPREFIX' Name.Variable
'}'     Literal.String.Interpol
'/man/man1' Text
'\n\t'  Text.Whitespace
'${'    Literal.String.Interpol
'INSTALL_MAN' Name.Variable
'}'     Literal.String.Interpol
''      Text.Whitespace
'${'    Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}'     Literal.String.Interpol
'/Misc/python.man' Text
''      Text.Whitespace
'\\n'   Literal.String.Escape

'\t\t'  Text.Whitespace
'${'    Literal.String.Interpol

```



```

'MANPREFIX' Name.Variable
'}'      Literal.String.Interpol
'/man/man1/' Text
'${'     Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}'      Literal.String.Interpol
'.1'     Text
'\n\n'   Text.Whitespace

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n' Comment.Preproc

'\t'     Text.Whitespace
'for'    Keyword
''       Text.Whitespace
'f'      Text
''       Text.Whitespace
'in'     Keyword
        Keyword
''       Text.Whitespace
'${'     Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'do'     Keyword
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'TARGET' Name.Variable
'='      Operator
''       Literal.String.Backtick
'${'     Literal.String.Interpol
'ECHO_CMD' Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'$$'     Name.Variable
'f'      Text
''       Text.Whitespace
'|'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'SED'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-E'     Text
''       Text.Whitespace
'${'     Literal.String.Interpol

```

'BINLINKS_SUB' Name.Variable
 '}' Literal.String.Interpol
 '`' Literal.String.Backtick
 ';' Punctuation
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t' Text.Whitespace
 'cd' Name.Builtin
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'PREFIX' Name.Variable
 '}' Literal.String.Interpol
 '/bin' Text
 '' Text.Whitespace
 '&&' Operator
 '' Text.Whitespace
 '\${' Literal.String.Interpol
 'LN' Name.Variable
 '}' Literal.String.Interpol
 '' Text.Whitespace
 '-f' Text
 '' Text.Whitespace
 '\$\$' Name.Variable
 'TARGET' Text
 '' Text.Whitespace
 '\$\$' Name.Variable
 'f' Text
 ';' Punctuation
 '' Text.Whitespace
 '\\n' Literal.String.Escape

 '\t' Text.Whitespace
 'done' Keyword
 '\n' Text.Whitespace

 '.endif\n' Comment.Preproc

 '\n' Text.Whitespace

 '.if !defined(NOPORTDOCS)\n' Comment.Preproc

 '\t'
 Text.Whitespace
 '@' Text
 '\${' Literal.String.Interpol
 'MKDIR' Name.Variable

```

'}'      Literal.String.Interpol
''       Text.Whitespace
'${'     Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}'      Literal.String.Interpol
'\n\t'   Text.Whitespace
'@cd'    Text
''       Text.Whitespace
'${'     Literal.String.Interpol
'PYTHON_WKSRRC' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-cf'    Text
''       Text.Whitespace
'-'      Text
''       Text.Whitespace
'Tools'  Text
''       Text.Whitespace
'|'      Punctuation
''       Text.Whitespace
'\\n'    Literal.String.Escape

'\t\t'   Text.Whitespace
'('      Operator
'cd'     Name.Builtin
''       Text.Whitespace
'${'
    Literal.String.Interpol
'TOOLSDIR' Name.Variable
'}'      Literal.String.Interpol
';'      Punctuation
''       Text.Whitespace
'${'     Literal.String.Interpol
'TAR'    Name.Variable
'}'      Literal.String.Interpol
''       Text.Whitespace
'-xf'    Text
''       Text.Whitespace
'-'      Text
')'      Operator
'\n\t'   Text.Whitespace
'@'      Text
'${'     Literal.String.Interpol

```

```

'MKDIR'    Name.Variable
'}'        Literal.String.Interpol
''         Text.Whitespace
'${'       Literal.String.Interpol
'DEMODIR'  Name.Variable
'}'        Literal.String.Interpol
'\n\t'     Text.Whitespace
'@cd'      Text
''         Text.Whitespace
'${'       Literal.String.Interpol
'PYTHON_WKSRC' Name.Variable
'}'        Literal.String.Interpol
'/Demo'    Text
';'        Punctuation
''         Text.Whitespace
'${'       Literal.String.Interpol
'TAR'      Name.Variable
'}'        Literal.String.Interpol
''         Text.Whitespace
'-cf'      Text
''         Text.Whitespace
'-'        Text
''         Text.Whitespace
'*'        Text
''         Text.Whitespace
'|'        Punctuation
''         Text.Whitespace
'\\n'      Literal.String.Escape

'\t\t'     Text.Whitespace
'('        Operator
'cd'       Name.Builtin
''         Text.Whitespace
'${'       Literal.String.Interpol
'DEMODIR'  Name.Variable
'}'        Literal.String.Interpol
';'        Punctuation
''         Text.Whitespace
'${'       Literal.String.Interpol
'TAR'      Name.Variable
'}'        Literal.String.Interpol
''         Text.Whitespace
'-xf'      Text
''         Text.Whitespace
'-'        Text
')'        Operator
'\n'       Text.Whitespace

```

'endif\n' Comment.Preproc

'\n\t' Text.Whitespace

'@' Text

'\${' Literal.String.Interpol

'CAT' Name.Variable

'}'

Literal.String.Interpol

'' Text.Whitespace

'\${' Literal.String.Interpol

'PKGMESSAGE' Name.Variable

'}' Literal.String.Interpol

'\n\n' Text.Whitespace

'include <bsd.port.post.mk>\n' Comment.Preproc

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1.96 tornado 6.4

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1.97 distlib 0.3.8

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for

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Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes

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=====

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=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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1.104 moment-timezone 0.5.45

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1.105 python-pip 24.0

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <https://opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes

the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for

the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes

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- (1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.
- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.106 python-setuptools 69.1.0

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1.107 paramiko 3.4.0

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Any

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1.108 types-react-dom 17.0.25

1.108.1 Available under license :

```
{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "npm-license-crawler-tests.ts"
  ]
}
```

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{
  "compilerOptions": {
    "module": "node16",
    "lib": [
      "es6"
    ],
    "noImplicitAny": true,
    "noImplicitThis": true,
    "strictFunctionTypes": true,
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    "types": [],
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  "files": [
    "index.d.ts",
    "oslicense-tests.ts"
  ]
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    "lib": [
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    "forceConsistentCasingInFileNames": true
  },
  "files": [
    "index.d.ts",
    "validate-npm-package-license-tests.ts"
  ]
}

```

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```
{
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    ],
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    "noImplicitThis": true,
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    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
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    "nodejs-license-file-tests.ts"
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    "angular-permission-tests.ts"
  ],
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    "lib": [
      "es6",
      "dom"
    ],
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    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
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}
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    "lib": [
      "es6"
    ],
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    "noImplicitThis": true,
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}
{
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    "lib": [
      "es6"
    ],
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    "noImplicitThis": true,
    "strictNullChecks": true,
    "strictFunctionTypes": true,
    "types": [],
    "noEmit": true,
    "forceConsistentCasingInFileNames": true
  },
  "files": [
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    "license-checker-webpack-plugin-tests.ts"
  ]
}
{
  "rules": {
    "@definitelytyped/dt-header": "off",
    "@definitelytyped/no-any-union": "off",

```

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    "@definitelytyped/no-declare-current-package": "off",
    "@definitelytyped/strict-export-declare-modifiers": "off",
    "@typescript-eslint/triple-slash-reference": "off",
    "@typescript-eslint/naming-convention": "off"
  }
}

```

1.109 cryptography 42.0.4

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1.110 gitpython 3.1.43

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1.111 pytest-mock 3.14.0

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1.112 process 0.11.10

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1.113 python3-asn1crypto 1.5.1

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1.114 python-dateutil 2.8.1

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1.115 python-dateutil 2.9.0.post0

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1.116 events 3.3.0

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1.117 scp 0.15.0

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1.118 babel-register 7.24.6

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1.119 python-requests 2.32.3

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1.126 @babel/core 7.25.2

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1.127 babel-plugin-transform-typescript

7.25.2

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1.128 qs 6.13.0

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1.130 babel-plugin-transform-runtime 7.25.4

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1.135 uuid 3.4.0

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1.136 json-editor 9.10.5

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<https://github.com/josdejong/jsoneditor>

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1.137 axios 1.7.9

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1.138 packaging 23.2

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1.139 tabulate 0.9.0

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1.140 backoff 2.2.1

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1.141 @types/react 17.0.83

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1.142 pyjwt 2.4.0

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1.143 @babel/plugin-proposal-class-properties 7.18.6

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1.144 babel-plugin-proposal-nullish-coalescing-operator 7.18.6

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1.145 jsonschema 4.18.4

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```
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/schema/generations/GenerateJSONSchemaInput.java  
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/extension/JSONSchemaGenerationExtension.java
```



```
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/extension/JSONSchemaGenerationConfigBuilder.java  
* /legend-engine-external-format-jsonschema-4-18-4-sources-  
jar/org/finos/legend/engine/external/format/jsonSchema/schema/generations/JSONSchemaConfig.java  
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/legend-engine-external-format-jsonschema-4-18-4-sources-  
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```
* /legend-engine-external-format-jsonschema-4-18-4-sources-jar/META-  
INF/maven/org.finos.legend.engine/legend-engine-external-format-jsonSchema/pom.xml
```

1.146 termcolor 1.1.0

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1.147 configparser 7.0.0

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1.149 python-lxml 5.3.1

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1.150 paramiko 3.5.1

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1.151 gitpython 3.1.44

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1.152 pytest 8.3.4

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1.153 subprocess32 3.5.4

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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Python/Jython

1.154 python-certifi 2023.7.22

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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1.155 six 1.16.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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1.156 robotframework 7.2.2

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1.157 python-jenkins 1.8.2

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1.158 supervisor 4.2.1

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1.160 requests-futures 1.0.1

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1.164 react-table 7.5.2

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1.168 @splunk/time-range-utils 3.2.0

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1.169 django-strong-passwords 0.1.2

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1.173 django-migrations-git-conflicts 1.0

1.173.1 Available under license :

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1.174 django-compressor 4.4

1.174.1 Available under license :

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django_compressor

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django_compressor contains code from Andreas Pelme's django-compress

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1.175 robotframework-pabot 0.91

1.175.1 Available under license :

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1.176 django-auth-ldap 2.2.0

1.176.1 Available under license :

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1.177 django-chunked-upload 2.0.0

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1.178 procfs 0.5.0

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1.179 beautiful-soup 4.13.3

1.179.1 Available under license :

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1.180 inspect-it 0.3.2

1.180.1 Available under license :

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1.181 openapi-core 0.18.0

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1.182 django-ratelimit 4.1.0

1.182.1 Available under license :

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1.183 bleach-allowlist 1.0.3

1.183.1 Available under license :

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1.184 pudb 2019.2

1.184.1 Available under license :

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1.185 robotframework-xvfb 1.2.2

1.185.1 Available under license :

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1.186 react-intl 7.1.0

1.186.1 Available under license :

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1.187 django-webpack-loader 0.7.0

1.187.1 Available under license :

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1.188 react-router-navigation-prompt 1.9.6

1.188.1 Available under license :

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1.189 robotbackgroundlogger 1.2

1.189.1 Available under license :

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1.190 codemirror 5.65.17

1.190.1 Available under license :

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1.191 react-codemirror2 6.0.1

1.191.1 Available under license :

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1.192 botocore 1.37.0

1.192.1 Available under license :

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{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-08-01",
    "endpointPrefix": "license-manager",
    "jsonVersion": "1.1",
    "protocol": "json",
    "serviceFullName": "AWS License Manager",
    "serviceId": "License Manager",
    "signatureVersion": "v4",
    "targetPrefix": "AWSLicenseManager",
    "uid": "license-manager-2018-08-01"
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      }
    }
  }
}
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    },
    "input":{"shape":"AcceptGrantRequest"},
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      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"}
    ],
    "documentation":"<p>Accepts the specified grant.</p>"
  },

  "CheckInLicense":{
    "name":"CheckInLicense",
    "http":{
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      "requestUri":"/"
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    "errors":[
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      {"shape":"ConflictException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ],
    "documentation":"<p>Checks in the specified license. Check in a license when it is no longer in use.</p>"
  },

  "CheckoutBorrowLicense":{
    "name":"CheckoutBorrowLicense",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"CheckoutBorrowLicenseRequest"},
    "output":{"shape":"CheckoutBorrowLicenseResponse"},
    "errors":[
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        {"shape": "EntitlementNotAllowedException"},
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        {"shape": "RedirectException"},
        {"shape": "AuthorizationException"},
        {"shape": "AccessDeniedException"},
        {"shape": "RateLimitExceededException"},
        {"shape": "ServerInternalException"}
    ],
    "documentation": "<p>Checks out the specified license for offline use.</p>"
},
"CheckoutLicense": {
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    "http": {
        "method": "POST",
        "requestUri": "/"
    },
    "input": {"shape": "CheckoutLicenseRequest"},
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        {"shape": "AuthorizationException"},
        {"shape": "AccessDeniedException"},
        {"shape": "RateLimitExceededException"},
        {"shape": "ServerInternalException"}
    ],
    "documentation": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>"
},
"CreateGrant": {
    "name": "CreateGrant",
    "http": {
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        "requestUri": "/"
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    "output": {"shape": "CreateGrantResponse"},
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        {"shape": "ServerInternalException"},
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        {"shape": "RateLimitExceededException"},

```



```

    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Creates a grant for the specified license. A grant shares the use of license entitlements with
a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information,
see <a href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\\">Granted
licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
},
  "CreateGrantVersion":{
    "name":"CreateGrantVersion",
    "http":{
      "method":"POST",
      "requestUri":"/"
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    "input":{"shape":"CreateGrantVersionRequest"},
    "output":{"shape":"CreateGrantVersionResponse"},
    "errors":[
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      {"shape":"InvalidParameterValueException"},
      {"shape":"ResourceLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ],
    "documentation":"<p>Creates a new version of the specified grant. For more information, see <a
href=\\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\\">Granted licenses in
License Manager</a> in the <i>License Manager User Guide</i>.</p>"
  },
  "CreateLicense":{
    "name":"CreateLicense",
    "http":{
      "method":"POST",
      "requestUri":"/"
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    "output":{"shape":"CreateLicenseResponse"},
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      {"shape":"RedirectException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ],
    "documentation":"<p>Creates a license.</p>"
  },
  "CreateLicenseConfiguration":{

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"name":"CreateLicenseConfiguration",
"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"CreateLicenseConfigurationRequest"},
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"errors":[
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  {"shape":"ServerInternalException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a
customer license agreement that can be consumed and enforced by License Manager. Components include
specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy,
Dedicated Instance,
Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the
number of licenses purchased and used.</p>"
},
"CreateLicenseConversionTaskForResource":{
  "name":"CreateLicenseConversionTaskForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseConversionTaskForResourceRequest"},
  "output":{"shape":"CreateLicenseConversionTaskForResourceResponse"},
  "errors":[
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    {"shape":"ValidationException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Creates a new license conversion task.</p>"
},
"CreateLicenseManagerReportGenerator":{
  "name":"CreateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"CreateLicenseManagerReportGeneratorResponse"},

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"errors":[
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  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"AccessDeniedException"},
  {"shape":"ResourceNotFoundException"}
],
"documentation":"<p>Creates a report generator.</p>"
},
"CreateLicenseVersion":{
  "name":"CreateLicenseVersion",
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    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"CreateLicenseVersionRequest"},
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    {"shape":"RedirectException"},
    {"shape":"ConflictException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Creates a new version of the specified license.</p>"
},
"CreateToken":{
  "name":"CreateToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"CreateTokenRequest"},
  "output":{"shape":"CreateTokenResponse"},
  "errors":[
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},

```

```

    {"shape":"RedirectException"}
  ],
  "documentation":"<p>Creates a long-lived
token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call
AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the
specified license.</p>"
},
"DeleteGrant":{
  "name":"DeleteGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteGrantRequest"},
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  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Deletes the specified grant.</p>"
},
"DeleteLicense":{
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  "http":{
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    "requestUri":"/"
  },
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    {"shape":"RedirectException"},
    {"shape":"ConflictException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Deletes the specified license.</p>"
},
"DeleteLicenseConfiguration":{
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```

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  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Deletes the specified license configuration.</p> <p>You cannot delete a license
configuration that is in use.</p>"
},
"DeleteLicenseManagerReportGenerator":{
  "name":"DeleteLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
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  "output":{"shape":"DeleteLicenseManagerReportGeneratorResponse"},
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Deletes the specified report
generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The
action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
},
"DeleteToken":{
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    {"shape":"AuthorizationException"},
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    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ],
  "documentation":"<p>Deletes the specified token. Must be called in the license home Region.</p>"
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  "http":{
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    "requestUri":"/"
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Extends the expiration date for license consumption.</p>"
},
"GetAccessToken":{
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  "http":{
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    "requestUri":"/"
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},

    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>"
},
"GetGrant":{

```

```

"name":"GetGrant",
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  "requestUri":"/"
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  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Gets detailed information about the specified grant.</p>"
},
"GetLicense":{
  "name":"GetLicense",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseRequest"},
  "output":{"shape":"GetLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Gets detailed information about the specified license.</p>"
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},

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        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ],
    "documentation":"<p>Gets detailed
information about the specified license configuration.</p>"
},
"GetLicenseConversionTask":{
    "name":"GetLicenseConversionTask",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
    "input":{"shape":"GetLicenseConversionTaskRequest"},
    "output":{"shape":"GetLicenseConversionTaskResponse"},
    "errors":[
        {"shape":"InvalidParameterValueException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"AccessDeniedException"},
        {"shape":"RateLimitExceededException"}
    ],
    "documentation":"<p>Gets information about the specified license type conversion task.</p>"
},
"GetLicenseManagerReportGenerator":{
    "name":"GetLicenseManagerReportGenerator",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },
    "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
    "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
    "errors":[
        {"shape":"ValidationException"},
        {"shape":"InvalidParameterValueException"},
        {"shape":"ResourceLimitExceededException"},
        {"shape":"ServerInternalException"},
        {"shape":"AuthorizationException"},
        {"shape":"RateLimitExceededException"},
        {"shape":"AccessDeniedException"},
        {"shape":"ResourceNotFoundException"}
    ],
    "documentation":"<p>Gets information about the specified report generator.</p>"
},
"GetLicenseUsage":{
    "name":"GetLicenseUsage",
    "http":{
        "method":"POST",
        "requestUri":"/"
    },

```



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    },
    "input":{"shape":"GetLicenseUsageRequest"},
    "output":{"shape":"GetLicenseUsageResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"InvalidParameterValueException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ],
    "documentation":"<p>Gets detailed information about the usage of the specified license.</p>"
  },
  "GetServiceSettings":{
    "name":"GetServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    },
    "input":{"shape":"GetServiceSettingsRequest"},
    "output":{"shape":"GetServiceSettingsResponse"},
    "errors":[
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ],
    "documentation":"<p>Gets the License Manager settings for the current Region.</p>"
  },
  "ListAssociationsForLicenseConfiguration":{
    "name":"ListAssociationsForLicenseConfiguration",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    },
    "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
    "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"FilterLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ],
    "documentation":"<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>"
  }
}

```

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},
"ListDistributedGrants":{
  "name":"ListDistributedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListDistributedGrantsRequest"},
  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants distributed for the specified license.</p>"
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
  "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configuration operations that failed.</p>"
},
"ListLicenseConfigurations":{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},

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    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license configurations for your account.</p>"
},
"ListLicenseConversionTasks":{
  "name":"ListLicenseConversionTasks",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the license type conversion tasks for your account.</p>"
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Lists the report generators for your account.</p>"
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",

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    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Describes the license configurations for the specified resource.</p>"
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists all versions of the specified license.</p>"
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists the licenses for your account.</p>"
},

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"ListReceivedGrants":{
  "name":"ListReceivedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs.</p>"
},
"ListReceivedGrantsForOrganization":{
  "name":"ListReceivedGrantsForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the grants received for all accounts in the organization.</p>"
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},

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"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
],
"documentation":"<p>Lists received licenses.</p>"
},
"ListReceivedLicensesForOrganization":{
  "name":"ListReceivedLicensesForOrganization",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the licenses received for all accounts in the organization.</p>"
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists resources managed using Systems Manager inventory.</p>"
}

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},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists the tags for the specified license configuration.</p>"
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTokensRequest"},
  "output":{"shape":"ListTokensResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Lists your tokens.</p>"
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},

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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Lists all license usage records for a license configuration, displaying license consumption
details by resource at a selected point in time. Use this action to audit the current license consumption for any
license inventory and configuration.</p>"
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ],
  "documentation":"<p>Rejects the specified grant.</p>"
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Adds the specified tags to the specified license configuration.</p>"
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",

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    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ],
  "documentation":"<p>Removes the specified tags from the specified license configuration.</p>"
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ],
  "documentation":"<p>Modifies the attributes of an existing license configuration.</p>"
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ]
}

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    ],
    "documentation": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it
starts generating new reports within 60 minutes of being updated.</p>"
  },
  "UpdateLicenseSpecificationsForResource": {
    "name": "UpdateLicenseSpecificationsForResource",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "UpdateLicenseSpecificationsForResourceRequest" },
    "output": { "shape": "UpdateLicenseSpecificationsForResourceResponse" },
    "errors": [
      { "shape": "InvalidParameterValueException" },
      { "shape": "InvalidResourceStateException" },
      { "shape": "LicenseUsageException" },
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ],
    "documentation": "<p>Adds or removes the specified license configurations for the specified Amazon Web
Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot
update the license specifications
for launch templates and CloudFormation templates, as they send license configurations to the operation that creates
the resource.</p>"
  },
  "UpdateServiceSettings": {
    "name": "UpdateServiceSettings",
    "http": {
      "method": "POST",
      "requestUri": "/"
    },
    "input": { "shape": "UpdateServiceSettingsRequest" },
    "output": { "shape": "UpdateServiceSettingsResponse" },
    "errors": [
      { "shape": "InvalidParameterValueException" },
      { "shape": "ServerInternalException" },
      { "shape": "AuthorizationException" },
      { "shape": "AccessDeniedException" },
      { "shape": "RateLimitExceededException" }
    ],
    "documentation": "<p>Updates License Manager settings for the current Region.</p>"
  }
},
"shapes": {
  "AcceptGrantRequest": {
    "type": "structure",

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    "required":["GrantArn"],
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      }
    },
    "AcceptGrantResponse":{
      "type":"structure",
      "members":{
        "GrantArn":{
          "shape":"Arn",
          "documentation":"<p>Grant ARN.</p>"
        },
        "Status":{
          "shape":"GrantStatus",
          "documentation":"<p>Grant status.</p>"
        },
        "Version":{
          "shape":"String",
          "documentation":"<p>Grant version.</p>"
        }
      }
    },
    "AccessDeniedException":{
      "type":"structure",
      "members":{
        "Message":{"shape":"Message"}
      },
      "documentation":"<p>Access to resource denied.</p>",
      "exception":true
    },
    "ActivationOverrideBehavior":{
      "type":"string",
      "enum":[
        "DISTRIBUTED_GRANTS_ONLY",
        "ALL_GRANTS_PERMITTED_BY_ISSUER"
      ]
    },
    "AllowedOperation":{
      "type":"string",
      "enum":[
        "CreateGrant",
        "CheckoutLicense",
        "CheckoutBorrowLicense",
        "CheckInLicense",
        "ExtendConsumptionLicense",

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    "ListPurchasedLicenses",
    "CreateToken"
  ],
},
"AllowedOperationList":{
  "type":"list",
  "member":{"shape":"AllowedOperation"},
  "max":7,
  "min":1
},
"Arn":{
  "type":"string",
  "max":2048,
  "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-
Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+=, @.-]{0,1023}$"
},
"ArnList":{
  "type":"list",
  "member":{"shape":"Arn"}
},
"AuthorizationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The Amazon Web Services user account does not have permission to perform the action.
Check the IAM policy associated with this account.</p>",
  "exception":true
},
"AutomatedDiscoveryInformation":{
  "type":"structure",
  "members":{
    "LastRunTime":{
      "shape":"DateTime",
      "documentation":"<p>Time
that automated discovery last ran.</p>"
    }
  },
  "documentation":"<p>Describes automated discovery.</p>"
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{

```

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"AllowEarlyCheckIn":{
  "shape":"BoxBoolean",
  "documentation":"<p>Indicates whether early check-ins are allowed.</p>"
},
"MaxTimeToLiveInMinutes":{
  "shape":"BoxInteger",
  "documentation":"<p>Maximum time for the borrow configuration, in minutes.</p>"
}
},
"documentation":"<p>Details about a borrow configuration.</p>"
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>License beneficiary.</p>"
    }
  }
},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
},
"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration.</p>"
    },
    "Entitlements":{

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    "shape": "EntitlementDataList",
    "documentation": "<p>License entitlements. Partial checkouts are not supported.</p>"
  },
  "DigitalSignatureMethod": {
    "shape": "DigitalSignatureMethod",

    "documentation": "<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see <a href='\"https://tools.ietf.org/html/rfc7518#section-3.5\"'>RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>"
  },
  "NodeId": {
    "shape": "String",
    "documentation": "<p>Node ID.</p>"
  },
  "CheckoutMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>Information about constraints.</p>"
  },
  "ClientToken": {
    "shape": "ClientToken",
    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  }
},
"CheckoutBorrowLicenseResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseConsumptionToken": {
      "shape": "String",
      "documentation": "<p>License consumption token.</p>"
    },
    "EntitlementsAllowed": {
      "shape": "EntitlementDataList",
      "documentation": "<p>Allowed license entitlements.</p>"
    },
    "NodeId": {
      "shape": "String",
      "documentation": "<p>Node ID.</p>"
    },
    "SignedToken": {
      "shape": "SignedToken",
      "documentation": "<p>Signed token.</p>"
    }
  }
},

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    "IssuedAt":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license checkout is issued.</p>"
    },
    "Expiration":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license checkout expires.</p>"
    },
    "CheckoutMetadata":{
      "shape":"MetadataList",
      "documentation":"<p>Information about constraints.</p>"
    }
  },
  "CheckoutLicenseRequest":{
    "type":"structure",
    "required":[
      "ProductSKU",
      "CheckoutType",
      "KeyFingerprint",
      "Entitlements",
      "ClientToken"
    ],
    "members":{
      "ProductSKU":{
        "shape":"String",
        "documentation":"<p>Product SKU.</p>"
      },
      "CheckoutType":{
        "shape":"CheckoutType",
        "documentation":"<p>Checkout type.</p>"
      },
      "KeyFingerprint":{
        "shape":"String",
        "documentation":"<p>Key fingerprint identifying the license.</p>"
      },
      "Entitlements":{
        "shape":"EntitlementDataList",
        "documentation":"<p>License entitlements.</p>"
      },
      "ClientToken":{
        "shape":"ClientToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
      },
      "Beneficiary":{
        "shape":"String",
        "documentation":"<p>License beneficiary.</p>"
      }
    }
  }
}

```

```

    },
    "NodeId":{
      "shape":"String",
      "documentation":"<p>Node ID.</p>"
    }
  },
  "CheckoutLicenseResponse":{
    "type":"structure",
    "members":{
      "CheckoutType":{
        "shape":"CheckoutType",
        "documentation":"<p>Checkout type.</p>"
      },
      "LicenseConsumptionToken":{
        "shape":"String",
        "documentation":"<p>License consumption token.</p>"
      },
      "EntitlementsAllowed":{
        "shape":"EntitlementDataList",
        "documentation":"<p>Allowed license entitlements.</p>"
      },
      "SignedToken":{
        "shape":"SignedToken",
        "documentation":"<p>Signed token.</p>"
      },
      "NodeId":{
        "shape":"String",
        "documentation":"<p>Node ID.</p>"
      },
      "IssuedAt":{
        "shape":"ISO8601DateTime",
        "documentation":"<p>Date and time at which the license checkout is issued.</p>"
      },
      "Expiration":{
        "shape":"ISO8601DateTime",
        "documentation":"<p>Date and time at which the license checkout expires.</p>"
      },
      "LicenseArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the checkout license.</p>"
      }
    }
  },
  "CheckoutType":{
    "type":"string",
    "enum":[

```



```

    "PROVISIONAL",
    "PERPETUAL"
  ],
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>There was a conflict processing the request. Try your request again.</p>",
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Resource type of the resource consuming a
license.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about license consumption.</p>"
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{
      "shape":"RenewType",
      "documentation":"<p>Renewal frequency.</p>"
    },
  },

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"ProvisionalConfiguration":{
  "shape":"ProvisionalConfiguration",
  "documentation":"<p>Details about a provisional configuration.</p>"
},
"BorrowConfiguration":{
  "shape":"BorrowConfiguration",
  "documentation":"<p>Details about a borrow configuration.</p>"
}
},
"documentation":"<p>Details about a consumption configuration.</p>"
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    },
    "GrantName":{
      "shape":"String",
      "documentation":"<p>Grant name.</p>"
    },
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "Principals":{
      "shape":"PrincipalArnList",
      "documentation":"<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which includes all accounts in the OU.</p> </li> </ul> <ul> <li> <p>An organization, which will include all accounts across your organization.</p> </li> </ul>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the grant.</p>"
    },
    "AllowedOperations":{

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        "shape": "AllowedOperationList",
        "documentation": "<p>Allowed operations for the grant.</p>"
    }
}
},
"CreateGrantResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "shape": "Arn",
            "documentation": "<p>Grant ARN.</p>"
        },
        "Status": {
            "shape": "GrantStatus",
            "documentation": "<p>Grant status.</p>"
        },
        "Version": {
            "shape": "String",
            "documentation": "<p>Grant version.</p>"
        }
    }
},
"CreateGrantVersionRequest": {
    "type": "structure",
    "required": [
        "ClientToken",
        "GrantArn"
    ],
    "members": {
        "ClientToken": {
            "shape": "ClientToken",
            "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
        },
        "GrantArn": {
            "shape": "Arn",
            "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
        },
        "GrantName": {
            "shape": "String",
            "documentation": "<p>Grant name.</p>"
        },
        "AllowedOperations": {
            "shape": "AllowedOperationList",
            "documentation": "<p>Allowed operations for the grant.</p>"
        },
        "Status": {

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    "shape": "GrantStatus",
    "documentation": "<p>Grant status.</p>"
  },
  "StatusReason": {
    "shape": "StatusReasonMessage",
    "documentation": "<p>Grant status reason.</p>"
  },
  "SourceVersion": {
    "shape": "String",
    "documentation": "<p>Current version of the grant.</p>"
  },
  "Options": {

    "shape": "Options",
    "documentation": "<p>The options specified for the grant.</p>"
  }
},
"CreateGrantVersionResponse": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Grant ARN.</p>"
    },
    "Status": {
      "shape": "GrantStatus",
      "documentation": "<p>Grant status.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>New version of the grant.</p>"
    }
  }
},
"CreateLicenseConfigurationRequest": {
  "type": "structure",
  "required": [
    "Name",
    "LicenseCountingType"
  ],
  "members": {
    "Name": {
      "shape": "String",
      "documentation": "<p>Name of the license configuration.</p>"
    },
    "Description": {
      "shape": "String",

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    "documentation": "<p>Description of the license configuration.</p>"
  },
  "LicenseCountingType": {
    "shape": "LicenseCountingType",
    "documentation": "<p>Dimension used to track the license inventory.</p>"
  },
  "LicenseCount": {
    "shape": "BoxLong",
    "documentation": "<p>Number of licenses managed by the license configuration.</p>"
  },
  "LicenseCountHardLimit": {
    "shape": "BoxBoolean",
    "documentation": "<p>Indicates whether hard or soft license enforcement is used. Exceeding a hard limit
blocks the launch of new instances.</p>"
  },
  "LicenseRules": {
    "shape": "StringList",
    "documentation": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-
DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code>
dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code>
dimension: <code>allowedTenancy</code>
| <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> |
<code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> <li>
<p> <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumSockets</code> | <code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code>
dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> |
<code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> </ul> <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are
<code>True</code> and <code>False</code>.</p>"
  },
  "Tags": {
    "shape": "TagList",
    "documentation": "<p>Tags to add to the
license configuration.</p>"
  },
  "DisassociateWhenNotFound": {
    "shape": "BoxBoolean",
    "documentation": "<p>When true, disassociates a resource when software is uninstalled.</p>"
  },
  "ProductInformationList": {
    "shape": "ProductInformationList",
    "documentation": "<p>Product information.</p>"
  }
}
}
},

```

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"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information that identifies the license type you are converting from. For the structure of
the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
    },
    "DestinationLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information that identifies the license type you are converting to. For the structure of the
destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-
procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User
Guide</i>.</p>"
    }
  }
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>The ID of the created license type conversion task.</p>"
    }
  }
},
"CreateLicenseManagerReportGeneratorRequest":{

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"type":"structure",
"required":[
  "ReportGeneratorName",
  "Type",
  "ReportContext",
  "ReportFrequency",
  "ClientToken"
],
"members":{
  "ReportGeneratorName":{
    "shape":"ReportGeneratorName",
    "documentation":"<p>Name of the report generator.</p>"
  },
  "Type":{
    "shape":"ReportTypeList",
    "documentation":"<p>Type of reports to generate. The following report types an be generated:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption
for a license configuration.</p> </li> </ul>"
  },
  "ReportContext":{
    "shape":"ReportContext",
    "documentation":"<p>Defines the type of license configuration the report generator tracks.</p>"
  },
  "ReportFrequency":{
    "shape":"ReportFrequency",
    "documentation":"<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or
weekly.</p>"
  },
  "ClientToken":{
    "shape":"ClientRequestToken",
    "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
  },
  "Description":{
    "shape":"String",
    "documentation":"<p>Description of the report generator.</p>"
  },
  "Tags":{
    "shape":"TagList",
    "documentation":"<p>Tags to add to the report generator.</p>"
  }
}
},
"CreateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
    "LicenseManagerReportGeneratorArn":{

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    "shape": "String",
    "documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
  }
}
},
"CreateLicenseRequest": {
  "type": "structure",
  "required": [
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
  ],
  "members": {
    "LicenseName": {
      "shape": "String",
      "documentation": "<p>License name.</p>"
    },
    "ProductName": {
      "shape": "String",
      "documentation": "<p>Product name.</p>"
    },
    "ProductSKU": {
      "shape": "String",
      "documentation": "<p>Product SKU.</p>"
    },
    "Issuer": {
      "shape": "Issuer",
      "documentation": "<p>License issuer.</p>"
    },
    "HomeRegion": {
      "shape": "String",
      "documentation": "<p>Home Region for the license.</p>"
    },
    "Validity": {
      "shape": "DatetimeRange",
      "documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    },
    "Entitlements": {
      "shape": "EntitlementList",
      "documentation": "<p>License entitlements.</p>"
    }
  }
}

```



```

    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>License beneficiary.</p>"
    },
    "ConsumptionConfiguration":{
      "shape":"ConsumptionConfiguration",
      "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>"
    },
    "LicenseMetadata":{
      "shape":"MetadataList",
      "documentation":"<p>Information about the license.</p>"
    },
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    }
  },
  "CreateLicenseResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "Status":{
        "shape":"LicenseStatus",
        "documentation":"<p>License status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>License version.</p>"
      }
    }
  },
  "CreateLicenseVersionRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "LicenseName",
      "ProductName",
      "Issuer",
      "HomeRegion",
      "Validity",

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```

    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],

  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "Issuer":{
      "shape":"Issuer",
      "documentation":"<p>License issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the license.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",
      "documentation":"<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
    },
    "LicenseMetadata":{
      "shape":"MetadataList",
      "documentation":"<p>Information about the license.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License
entitlements.</p>"
    },
    "ConsumptionConfiguration":{
      "shape":"ConsumptionConfiguration",
      "documentation":"<p>Configuration for consumption of the license. Choose a provisional configuration for
workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline
usage.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",

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```

    "documentation": "<p>License status.</p>"
  },
  "ClientToken": {
    "shape": "ClientToken",
    "documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
  },
  "SourceVersion": {
    "shape": "String",
    "documentation": "<p>Current version of the license.</p>"
  }
}
},
"CreateLicenseVersionResponse": {
  "type": "structure",
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>License ARN.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>New version of the license.</p>"
    },
    "Status": {
      "shape": "LicenseStatus",
      "documentation": "<p>License status.</p>"
    }
  }
},
"CreateTokenRequest": {
  "type": "structure",
  "required": [
    "LicenseArn",
    "ClientToken"
  ],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token.</p>"
    },
    "RoleArns": {
      "shape": "ArnList",
      "documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use.</p>"
    }
  },

```

```

    "ExpirationInDays":{
      "shape":"Integer",
      "documentation":"<p>Token expiration, in days, counted from token creation. The default is 365
days.</p>"
    },
    "TokenProperties":{
      "shape":"MaxSize3StringList",
      "documentation":"<p>Data specified by the caller to be included in the JWT token. The data is mapped to the
amr claim of the JWT token.</p>"
    },
    "ClientToken":{
      "shape":"ClientToken",
      "documentation":"<p>Idempotency token, valid for 10 minutes.</p>"
    }
  }
},
"CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"TokenType",
      "documentation":"<p>Token type.</p>"
    },
    "Token":{
      "shape":"TokenString",
      "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
    }
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{
  "type":"structure",
  "required":["Begin"],
  "members":{
    "Begin":{

      "shape":"ISO8601DateTime",
      "documentation":"<p>Start of the time range.</p>"
    },
    "End":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>End of the time range.</p>"
    }
  }
},

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"documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
},
"DeleteGrantRequest": {
  "type": "structure",
  "required": [
    "GrantArn",
    "Version"
  ],
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "StatusReason": {
      "shape": "StatusReasonMessage",
      "documentation": "<p>The Status reason for the delete request.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>Current version of the grant.</p>"
    }
  }
},
"DeleteGrantResponse": {
  "type": "structure",
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Grant ARN.</p>"
    },
    "Status": {
      "shape": "GrantStatus",
      "documentation": "<p>Grant status.</p>"
    },
    "Version": {
      "shape": "String",
      "documentation": "<p>Grant version.</p>"
    }
  }
},
"DeleteLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>ID of the license configuration.</p>"
    }
  }
}

```

```

    }
  },
  "DeleteLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
    }
  },
  "DeleteLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":["LicenseManagerReportGeneratorArn"],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>"
      }
    }
  },
  "DeleteLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
    }
  },
  "DeleteLicenseRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "SourceVersion"
    ],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      },
      "SourceVersion":{
        "shape":"String",
        "documentation":"<p>Current version of the license.</p>"
      }
    }
  },
  "DeleteLicenseResponse":{
    "type":"structure",
    "members":{
      "Status":{
        "shape":"LicenseDeletionStatus",
        "documentation":"<p>License status.</p>"
      },
      "DeletionDate":{
        "shape":"ISO8601DateTime",

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        "documentation":"<p>Date when the license is deleted.</p>"
    }
}
},
"DeleteTokenRequest":{
    "type":"structure",
    "required":["TokenId"],
    "members":{
        "TokenId":{
            "shape":"String",
            "documentation":"<p>Token ID.</p>"
        }
    }
},
"DeleteTokenResponse":{
    "type":"structure",
    "members":{
    }
},
"DigitalSignatureMethod":{
    "type":"string",
    "enum":["JWT_PS384"]
},
"Entitlement":{
    "type":"structure",
    "required":[
        "Name",
        "Unit"
    ],
    "members":{
        "Name":{
            "shape":"String",
            "documentation":"<p>Entitlement name.</p>"
        },
        "Value":{
            "shape":"String",
            "documentation":"<p>Entitlement resource. Use only if the unit is None.</p>"
        },
        "MaxCount":{
            "shape":"Long",
            "documentation":"<p>Maximum entitlement count. Use if the unit is not None.</p>"
        },
        "Overage":{
            "shape":"BoxBoolean",
            "documentation":"<p>Indicates whether overages are allowed.</p>"
        },
        "Unit":{

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    "shape": "EntitlementUnit",
    "documentation": "<p>Entitlement unit.</p>"
  },
  "AllowCheckIn": {
    "shape": "BoxBoolean",
    "documentation": "<p>Indicates whether check-ins are allowed.</p>"
  }
},
"documentation": "<p>Describes a resource entitled for use with a license.</p>"
},
"EntitlementData": {
  "type": "structure",
  "required": [
    "Name",
    "Unit"
  ],
  "members": {
    "Name": {
      "shape": "String",
      "documentation": "<p>Entitlement data name.</p>"
    },
    "Value": {
      "shape": "String",
      "documentation": "<p>Entitlement data value.</p>"
    },
    "Unit": {
      "shape": "EntitlementDataUnit",
      "documentation": "<p>Entitlement data unit.</p>"
    }
  },
  "documentation": "<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList": {
  "type": "list",
  "member": { "shape": "EntitlementData" }
},
"EntitlementDataUnit": {
  "type": "string",
  "enum": [
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
  ]
}

```



```

    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The entitlement is not allowed.</p>",
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",

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```

"Gigabits",
"Terabits",
"Percent",
"Bytes/Second",
"Kilobytes/Second",
"Megabytes/Second",
"Gigabytes/Second",
"Terabytes/Second",
"Bits/Second",
"Kilobits/Second",
"Megabits/Second",
"Gigabits/Second",
"Terabits/Second",
"Count/Second"
]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
    "Unit"
  ],
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Entitlement usage name.</p>"
    },
    "ConsumedValue":{
      "shape":"String",
      "documentation":"<p>Resource usage consumed.</p>"
    },
    "MaxCount":{
      "shape":"String",
      "documentation":"<p>Maximum entitlement usage count.</p>"
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":"<p>Entitlement usage unit.</p>"
    }
  },
  "documentation":"<p>Usage associated with an entitlement resource.</p>"
},
"EntitlementUsageList":{
  "type":"list",
  "member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{

```

```

"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
  "LicenseConsumptionToken":{
    "shape":"String",
    "documentation":"<p>License consumption token.</p>"
  },
  "DryRun":{
    "shape":"Boolean",
    "documentation":"<p>Checks whether you have the required permissions for the action, without actually
making the request. Provides
an error response if you do not have the required permissions.</p>"
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{
      "shape":"String",
      "documentation":"<p>License consumption token.</p>"
    },
    "Expiration":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license consumption expires.</p>"
    }
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "documentation":"<p>A dependency required to run the API is missing.</p>",
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"FilterName",
      "documentation":"<p>Name of the filter. Filter names are case-sensitive.</p>"
    },
    "Values":{
      "shape":"FilterValues",
      "documentation":"<p>The value of the filter, which is case-sensitive. You can only specify one value for the

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filter.</p>"
    }
    },
    "documentation": "<p>A filter name and value pair that is used to return more specific results from a describe
operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
    },
    "FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": { "shape": "Message" }
        },
        "documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "exception": true
    },
    "FilterList": {
        "type": "list",
        "member": { "shape": "Filter" }
    },
    "FilterName": { "type": "string" },
    "FilterValue": { "type": "string" },
    "FilterValues": {
        "type": "list",
        "member": { "shape": "FilterValue" }
    },
    "Filters": {
        "type": "list",
        "member": { "shape": "Filter" }
    },
    "GetAccessTokenRequest": {
        "type": "structure",
        "required": [ "Token" ],
        "members": {
            "Token": {
                "shape": "TokenString",
                "documentation": "<p>Refresh token, encoded as a JWT token.</p>"
            },
            "TokenProperties": {
                "shape": "MaxSize3StringList",
                "documentation": "<p>Token properties to validate against those present in the JWT token.</p>"
            }
        }
    },
    "GetAccessTokenResponse": {
        "type": "structure",
        "members": {
            "AccessToken": {
                "shape": "TokenString",

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    "documentation":"<p>Temporary access token.</p>"
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{
      "shape":"Grant",
      "documentation":"<p>Grant details.</p>"
    }
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{
      "shape":"String",
      "documentation":"<p>Unique ID for the license configuration.</p>"
    },
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },

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"Name":{
  "shape":"String",
  "documentation":"<p>Name of the license configuration.</p>"
},
"Description":{
  "shape":"String",
  "documentation":"<p>Description of the license configuration.</p>"
},
"LicenseCountingType":{
  "shape":"LicenseCountingType",
  "documentation":"<p>Dimension for which the licenses are counted.</p>"
},
"LicenseRules":{
  "shape":"StringList",
  "documentation":"<p>License rules.</p>"
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":"<p>Number of available licenses.</p>"
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":"<p>Sets the number of available licenses as a hard limit.</p>"
},
"ConsumedLicenses":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses assigned to resources.</p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>License configuration status.</p>"
},
"OwnerAccountId":{
  "shape":"String",
  "documentation":"<p>Account ID of the owner of the license configuration.</p>"
},
"ConsumedLicenseSummaryList":{
  "shape":"ConsumedLicenseSummaryList",
  "documentation":"<p>Summaries of the licenses consumed by resources.</p>"
},
"ManagedResourceSummaryList":{
  "shape":"ManagedResourceSummaryList",
  "documentation":"<p>Summaries of the managed resources.</p>"
},
"Tags":{
  "shape":"TagList",
  "documentation":"<p>Tags for the license configuration.</p>"
},

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"ProductInformationList":{
  "shape":"ProductInformationList",
  "documentation":"<p>Product information.</p>"
},
"AutomatedDiscoveryInformation":{
  "shape":"AutomatedDiscoveryInformation",
  "documentation":"<p>Automated discovery information.</p>"
},
"DisassociateWhenNotFound":{
  "shape":"BoxBoolean",
  "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
}
},
"GetLicenseConversionTaskRequest":{
  "type":"structure",
  "required":["LicenseConversionTaskId"],
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>ID of the license type conversion task to retrieve information on.</p>"
    }
  }
},
"GetLicenseConversionTaskResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{
      "shape":"LicenseConversionTaskId",
      "documentation":"<p>ID of the license type conversion task.</p>"
    },
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Names (ARN) of the resources the license conversion task is
associated with.</p>"
    },
    "SourceLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type converted from.</p>"
    },
    "DestinationLicenseContext":{
      "shape":"LicenseConversionContext",
      "documentation":"<p>Information about the license type converted to.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for the conversion task.</p>"
    }
  }
},

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    "Status":{
      "shape":"LicenseConversionTaskStatus",
      "documentation":"<p>Status of the license type conversion task.</p>"
    },
    "StartTime":{
      "shape":"DateTime",
      "documentation":"<p>Time at which the license type conversion task was started .</p>"
    },
    "LicenseConversionTime":{
      "shape":"DateTime",
      "documentation":"<p>Amount of time to complete the license type conversion.</p>"
    },
    "EndTime":{
      "shape":"DateTime",
      "documentation":"<p>Time
at which the license type conversion task was completed.</p>"
    }
  },
  "GetLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":["LicenseManagerReportGeneratorArn"],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
      }
    }
  },
  "GetLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
      "ReportGenerator":{
        "shape":"ReportGenerator",
        "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
      }
    }
  },
  "GetLicenseRequest":{
    "type":"structure",
    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
      }
    },
    "Version":{

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    "shape": "String",
    "documentation": "<p>License version.</p>"
  }
},
"GetLicenseResponse": {
  "type": "structure",
  "members": {
    "License": {
      "shape": "License",
      "documentation": "<p>License details.</p>"
    }
  }
},
"GetLicenseUsageRequest": {
  "type": "structure",
  "required": ["LicenseArn"],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
    }
  }
},
"GetLicenseUsageResponse": {
  "type": "structure",
  "members": {
    "LicenseUsage": {
      "shape": "LicenseUsage",
      "documentation": "<p>License usage details.</p>"
    }
  }
},
"GetServiceSettingsRequest": {
  "type": "structure",
  "members": {
  }
},
"GetServiceSettingsResponse": {
  "type": "structure",
  "members": {
    "S3BucketArn": {
      "shape": "String",

      "documentation": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and
so on.</p>"
    },
    "SnsTopicArn": {

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    "shape": "String",
    "documentation": "<p>SNS topic configured to receive notifications from License Manager.</p>"
  },
  "OrganizationConfiguration": {
    "shape": "OrganizationConfiguration",
    "documentation": "<p>Indicates whether Organizations is integrated with License Manager for cross-account
discovery.</p>"
  },
  "EnableCrossAccountsDiscovery": {
    "shape": "BoxBoolean",
    "documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
  },
  "LicenseManagerResourceShareArn": {
    "shape": "String",
    "documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager
management account provides member accounts with access to this share.</p>"
  }
},
"Grant": {
  "type": "structure",
  "required": [
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
  "members": {
    "GrantArn": {
      "shape": "Arn",
      "documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "GrantName": {
      "shape": "String",
      "documentation": "<p>Grant name.</p>"
    },
    "ParentArn": {
      "shape": "Arn",
      "documentation": "<p>Parent ARN.</p>"
    },
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>License ARN.</p>"
    }
  }
}

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    },
    "GranteePrincipalArn":{
      "shape":"Arn",
      "documentation":"<p>The grantee principal ARN.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the grant.</p>"
    },
    "GrantStatus":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "StatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>Grant status reason.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    },
    "GrantedOperations":{
      "shape":"AllowedOperationList",
      "documentation":"<p>Granted operations.</p>"
    },
    "Options":{
      "shape":"Options",
      "documentation":"<p>The options specified for the grant.</p>"
    }
  },
  "documentation":"<p>Describes a grant.</p>"
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",

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"WORKFLOW_COMPLETED"
]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",
      "documentation":"<p>Granted license issuer.</p>"
    },
    "HomeRegion":{
      "shape":"String",
      "documentation":"<p>Home Region of the granted license.</p>"
    },
    "Status":{
      "shape":"LicenseStatus",
      "documentation":"<p>Granted license status.</p>"
    },
    "Validity":{
      "shape":"DatetimeRange",
      "documentation":"<p>Date and time range during which the granted license is valid, in ISO8601-UTC
format.</p>"
    },
    "Beneficiary":{
      "shape":"String",
      "documentation":"<p>Granted license beneficiary.</p>"
    },
    "Entitlements":{
      "shape":"EntitlementList",
      "documentation":"<p>License entitlements.</p>"
    },
    "ConsumptionConfiguration":{

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```

    "shape":"ConsumptionConfiguration",
    "documentation":"<p>Configuration for consumption of the license.</p>"
  },
  "LicenseMetadata":{
    "shape":"MetadataList",
    "documentation":"<p>Granted license metadata.</p>"
  },
  "CreateTime":{
    "shape":"ISO8601DateTime",
    "documentation":"<p>Creation time of the granted license.</p>"
  },
  "Version":{
    "shape":"String",
    "documentation":"<p>Version of the granted license.</p>"
  },
  "ReceivedMetadata":{
    "shape":"ReceivedMetadata",
    "documentation":"<p>Granted license received metadata.</p>"
  }
},
"documentation":"<p>Describes a license that is granted to a grantee.</p>"
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(-(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>One or more parameter values are not valid.</p>",
  "exception":true,
  "synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
}

```

```

    },
    "documentation": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For
example, you cannot allocate a license to an instance in the process of shutting down.</p>",
    "exception": true
  },
  "InventoryFilter": {
    "type": "structure",
    "required": [
      "Name",
      "Condition"
    ],
    "members": {
      "Name": {
        "shape": "String",
        "documentation": "<p>Name of the filter.</p>"
      },
      "Condition": {
        "shape": "InventoryFilterCondition",
        "documentation": "<p>Condition of the filter.</p>"
      },
      "Value": {
        "shape": "String",
        "documentation": "<p>Value of the filter.</p>"
      }
    },
    "documentation": "<p>An inventory filter.</p>"
  },
  "InventoryFilterCondition": {
    "type": "string",
    "enum": [
      "EQUALS",
      "NOT_EQUALS",
      "BEGINS_WITH",
      "CONTAINS"
    ]
  },
  "InventoryFilterList": {
    "type": "list",
    "member": { "shape": "InventoryFilter" }
  },
  "Issuer": {
    "type": "structure",
    "required": ["Name"],
    "members": {
      "Name": {
        "shape": "String",
        "documentation": "<p>Issuer name.</p>"
      }
    },

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```

    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    }
  },
  "documentation":"<p>Details about the issuer of a license.</p>"
},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{
      "shape":"String",
      "documentation":"<p>Issuer name.</p>"
    },
    "SignKey":{
      "shape":"String",
      "documentation":"<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key
usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
    },
    "KeyFingerprint":{
      "shape":"String",
      "documentation":"<p>Issuer key fingerprint.</p>"
    }
  },
  "documentation":"<p>Details associated with the issuer of a license.</p>"
},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
    },
    "Issuer":{
      "shape":"IssuerDetails",

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```

    "documentation": "<p>License issuer.</p>"
  },
  "HomeRegion": {
    "shape": "String",
    "documentation": "<p>Home Region of the license.</p>"
  },
  "Status": {
    "shape": "LicenseStatus",
    "documentation": "<p>License status.</p>"
  },
  "Validity": {
    "shape": "DatetimeRange",
    "documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  },
  "Beneficiary": {
    "shape": "String",
    "documentation": "<p>License beneficiary.</p>"
  },
  "Entitlements": {
    "shape": "EntitlementList",
    "documentation": "<p>License entitlements.</p>"
  },
  "ConsumptionConfiguration": {
    "shape": "ConsumptionConfiguration",
    "documentation": "<p>Configuration for consumption of the license.</p>"
  },
  "LicenseMetadata": {
    "shape": "MetadataList",
    "documentation": "<p>License metadata.</p>"
  },
  "CreateTime": {
    "shape": "ISO8601DateTime",
    "documentation": "<p>License creation time.</p>"
  },
  "Version": {
    "shape": "String",
    "documentation": "<p>License version.</p>"
  }
},
"documentation": "<p>Software license that is managed in License Manager.</p>"
},
"LicenseConfiguration": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {
      "shape": "String",
      "documentation": "<p>Unique ID of the license configuration.</p>"
    }
  },

```



```

"LicenseConfigurationArn":{
  "shape":"String",
  "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
},
"Name":{
  "shape":"String",
  "documentation":"<p>Name of the license configuration.</p>"
},
"Description":{
  "shape":"String",
  "documentation":"<p>Description of the license configuration.</p>"
},
"LicenseCountingType":{
  "shape":"LicenseCountingType",
  "documentation":"<p>Dimension to use to track the license inventory.</p>"
},
"LicenseRules":{
  "shape":"StringList",
  "documentation":"<p>License rules.</p>"
},
"LicenseCount":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses managed by the license configuration.</p>"
},
"LicenseCountHardLimit":{
  "shape":"BoxBoolean",
  "documentation":"<p>Number of available licenses as a hard limit.</p>"
},
"DisassociateWhenNotFound":{
  "shape":"BoxBoolean",
  "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
},
"ConsumedLicenses":{
  "shape":"BoxLong",
  "documentation":"<p>Number of licenses consumed. </p>"
},
"Status":{
  "shape":"String",
  "documentation":"<p>Status of the license configuration.</p>"
},
"OwnerAccountId":{
  "shape":"String",
  "documentation":"<p>Account ID of the license
configuration's owner.</p>"
},
"ConsumedLicenseSummaryList":{
  "shape":"ConsumedLicenseSummaryList",
  "documentation":"<p>Summaries for licenses consumed by various resources.</p>"
}

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    },
    "ManagedResourceSummaryList":{
      "shape":"ManagedResourceSummaryList",
      "documentation":"<p>Summaries for managed resources.</p>"
    },
    "ProductInformationList":{
      "shape":"ProductInformationList",
      "documentation":"<p>Product information.</p>"
    },
    "AutomatedDiscoveryInformation":{
      "shape":"AutomatedDiscoveryInformation",
      "documentation":"<p>Automated discovery information.</p>"
    }
  },
  "documentation":"<p>A license configuration is an abstraction of a customer license agreement that can be
consumed and enforced by License Manager. Components include specifications for the license type (licensing by
instance, socket, CPU, or vCPU), allowed tenancy (shared
tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with
a host), and the number of licenses purchased and used.</p>"
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of server resource.</p>"
    },
    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of the Amazon Web Services account that owns the resource consuming
licenses.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was associated with the resource.</p>"
    },
    "AmiAssociationScope":{
      "shape":"String",
      "documentation":"<p>Scope of
AMI associations. The possible value is <code>cross-account</code>.</p>"
    }
  },
  "documentation":"<p>Describes an association with a license configuration.</p>"
},

```

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"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource.</p>"
    },
    "ResourceStatus":{
      "shape":"String",
      "documentation":"<p>Status of the resource.</p>"
    },
    "ResourceOwnerId":{
      "shape":"String",
      "documentation":"<p>ID of
the account that owns the resource.</p>"
    },
    "AssociationTime":{
      "shape":"DateTime",
      "documentation":"<p>Time when the license configuration was initially associated with the resource.</p>"
    },
    "ConsumedLicenses":{
      "shape":"BoxLong",
      "documentation":"<p>Number of licenses consumed by the resource.</p>"
    }
  },
  "documentation":"<p>Details about the usage of a resource associated with a license configuration.</p>"
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",

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    "member":{"shape":"LicenseConfiguration"}
  },
  "LicenseConversionContext":{"
    "type":"structure",
    "members":{"
      "UsageOperation":{"
        "shape":"UsageOperation",
        "documentation":"<p>The Usage operation value that corresponds to the license type you are converting your
resource
from. For more information about which platforms correspond to which usage operation values see <a
href=\\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\\">Sample
data: usage operation by platform </a> </p>"
      }
    },
    "documentation":"<p>Information about a license type conversion task.</p>"
  },
  "LicenseConversionTask":{"
    "type":"structure",
    "members":{"
      "LicenseConversionTaskId":{"
        "shape":"LicenseConversionTaskId",
        "documentation":"<p>The ID of the license type conversion task.</p>"
      },
      "ResourceArn":{"
        "shape":"String",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource associated with the license type
conversion task.</p>"
      },
      "SourceLicenseContext":{"
        "shape":"LicenseConversionContext",
        "documentation":"<p>Information about the license type this conversion task converted from.</p>"
      },
      "DestinationLicenseContext":{"
        "shape":"LicenseConversionContext",
        "documentation":"<p>Information about the license type this conversion task converted to.</p>"
      },
      "Status":{"
        "shape":"LicenseConversionTaskStatus",
        "documentation":"<p>The status of the conversion task.</p>"
      },
      "StatusMessage":{"
        "shape":"String",
        "documentation":"<p>The status message for the conversion task.</p>"
      },
      "StartTime":{"
        "shape":"DateTime",
        "documentation":"<p>The time the conversion task was started at.</p>"
      }
    }
  }
}

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```

    },
    "LicenseConversionTime":{
      "shape":"DateTime",
      "documentation":"<p>The time the usage operation value of the resource was changed.</p>"
    },
    "EndTime":{
      "shape":"DateTime",
      "documentation":"<p>The time the conversion task was completed.</p>"
    }
  },
  "documentation":"<p>Information about a
license type conversion task.</p>"
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^\\ct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",

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    "member":{"shape":"License"}
  },
  "LicenseOperationFailure":{
    "type":"structure",
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
      },
      "ResourceType":{
        "shape":"ResourceType",
        "documentation":"<p>Resource type.</p>"
      },
      "ErrorMessage":{
        "shape":"String",
        "documentation":"<p>Error message.</p>"
      },
      "FailureTime":{
        "shape":"DateTime",
        "documentation":"<p>Failure time.</p>"
      },
      "OperationName":{
        "shape":"String",
        "documentation":"<p>Name of the operation.</p>"
      },
      "ResourceOwnerId":{
        "shape":"String",
        "documentation":"<p>ID of the Amazon Web Services account that owns the resource.</p>"
      },
      "OperationRequestedBy":{
        "shape":"String",
        "documentation":"<p>The requester is \"License Manager Automated Discovery\".</p>"
      },
      "MetadataList":{
        "shape":"MetadataList",
        "documentation":"<p>Reserved.</p>"
      }
    },
    "documentation":"<p>Describes the failure of a license operation.</p>"
  },
  "LicenseOperationFailureList":{
    "type":"list",
    "member":{"shape":"LicenseOperationFailure"}
  },
  "LicenseSpecification":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],

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"members":{
  "LicenseConfigurationArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
  },
  "AmiAssociationScope":{
    "shape":"String",
    "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
  }
},
"documentation":"<p>Details for associating a license configuration with a resource.</p>"
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{
      "shape":"EntitlementUsageList",
      "documentation":"<p>License entitlement usages.</p>"
    }
  },
  "documentation":"<p>Describes the entitlement usage associated with a license.</p>"
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>You do not have enough licenses available to support a new resource launch.</p>",
  "exception":true
},
>ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",

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"required":["LicenseConfigurationArn"],
"members":{
  "LicenseConfigurationArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of a license configuration.</p>"
  },
  "MaxResults":{
    "shape":"BoxInteger",
    "documentation":"<p>Maximum
number of results to return in a single call.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{
      "shape":"LicenseConfigurationAssociations",
      "documentation":"<p>Information about the associations for the license configuration.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListDistributedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results.
The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p>
<code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  },

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    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "ListDistributedGrantsResponse":{
    "type":"structure",
    "members":{
      "Grants":{
        "shape":"GrantList",
        "documentation":"<p>Distributed grant details.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name of the license configuration.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse":{
    "type":"structure",
    "members":{
      "LicenseOperationFailureList":{
        "shape":"LicenseOperationFailureList",
        "documentation":"<p>License configuration operations that failed.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  }
}

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    }
  },
  "ListLicenseConfigurationsRequest":{
    "type":"structure",
    "members":{
      "LicenseConfigurationArns":{
        "shape":"StringList",
        "documentation":"<p>Amazon Resource Names (ARN) of the license configurations.</p>"
      },
      "MaxResults":{
        "shape":"BoxInteger",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "Filters":{
        "shape":"Filters",
        "documentation":"<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
      }
    }
  },
  "ListLicenseConfigurationsResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurations":{
        "shape":"LicenseConfigurations",
        "documentation":"<p>Information about the license configurations.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListLicenseConversionTasksRequest":{
    "type":"structure",
    "members":{
      "NextToken":{

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    "shape": "String",
    "documentation": "<p>Token
for the next set of results.</p>"
  },
  "MaxResults": {
    "shape": "BoxInteger",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  },
  "Filters": {
    "shape": "Filters",
    "documentation": "<p>Filters to scope the results. Valid filters are <code>ResourceArns</code> and
<code>Status</code>. </p>"
  }
},
"ListLicenseConversionTasksResponse": {
  "type": "structure",
  "members": {
    "LicenseConversionTasks": {
      "shape": "LicenseConversionTasks",
      "documentation": "<p>Information about the license configuration tasks for your account.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseManagerReportGeneratorsRequest": {
  "type": "structure",
  "members": {
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters
to scope the results. The following filters are supported: </p> <ul> <li> <p>
<code>LicenseConfigurationArn</code> </p> </li> </ul>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "MaxResults": {
      "shape": "MaxSize100",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListLicenseManagerReportGeneratorsResponse": {

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"type":"structure",
"members":{
  "ReportGenerators":{
    "shape":"ReportGeneratorList",
    "documentation":"<p>A report generator that creates periodic reports about your license configurations.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  }
}
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of a resource that has an associated license
configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>License configurations associated with a resource.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",

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"required":["LicenseArn"],
"members":{
  "LicenseArn":{
    "shape":"Arn",
    "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  },
  "MaxResults":{
    "shape":"MaxSize100",
    "documentation":"<p>Maximum number of results to return in a single call.</p>"
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"LicenseList",
      "documentation":"<p>License details.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names
(ARNs) of the licenses.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{

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    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListLicensesResponse": {
  "type": "structure",
  "members": {
    "Licenses": {
      "shape": "LicenseList",
      "documentation": "<p>License details.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedGrantsForOrganizationRequest": {
  "type": "structure",
  "required": ["LicenseArn"],
  "members": {
    "LicenseArn": {
      "shape": "Arn",
      "documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>"
    },
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p><code>ParentArn</code> </p> </li> <li> <p><code>GranteePrincipalArn</code> </p> </li> </ul>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "MaxResults": {
      "shape": "MaxSize100",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListReceivedGrantsForOrganizationResponse": {
  "type": "structure",
  "members": {
    "Grants": {
      "shape": "GrantList",
      "documentation": "<p>Lists the grants the organization has received.</p>"
    }
  }
}

```

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    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  },
  "ListReceivedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{
        "shape":"ArnList",
        "documentation":"<p>Amazon Resource Names (ARNs) of the grants.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li> <p>
<code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p>
<code>GranterAccountId</code> </p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      },
      "MaxResults":{
        "shape":"MaxSize100",
        "documentation":"<p>Maximum number of results to return in a single call.</p>"
      }
    }
  },
  "ListReceivedGrantsResponse":{
    "type":"structure",
    "members":{
      "Grants":{
        "shape":"GrantList",
        "documentation":"<p>Received grant details.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>Token for the next set of results.</p>"
      }
    }
  },
  "ListReceivedLicensesForOrganizationRequest":{
    "type":"structure",
    "members":{
      "Filters":{

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    "shape": "FilterList",
    "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> </ul>"
  },
  "NextToken": {
    "shape": "String",
    "documentation": "<p>Token for the next set of
results.</p>"
  },
  "MaxResults": {
    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListReceivedLicensesForOrganizationResponse": {
  "type": "structure",
  "members": {
    "Licenses": {
      "shape": "GrantedLicenseList",
      "documentation": "<p>Lists the licenses the organization has received.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListReceivedLicensesRequest": {
  "type": "structure",
  "members": {
    "LicenseArns": {
      "shape": "ArnList",
      "documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
    },
    "Filters": {
      "shape": "FilterList",
      "documentation": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p>
<code>ProductSKU</code>
</p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p>
<code>IssuerName</code> </p> </li> <li> <p> <code>Beneficiary</code> </p> </li> </ul>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "MaxResults": {
      "shape": "MaxSize100",

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    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListReceivedLicensesResponse": {
  "type": "structure",
  "members": {
    "Licenses": {
      "shape": "GrantedLicenseList",
      "documentation": "<p>Received license details.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListResourceInventoryRequest": {
  "type": "structure",
  "members": {
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    },
    "Filters": {
      "shape": "InventoryFilterList",
      "documentation": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  }
},
"ListResourceInventoryResponse": {
  "type": "structure",

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"members":{
  "ResourceInventoryList":{
    "shape":"ResourceInventoryList",
    "documentation":"<p>Information about the resources.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>Token for the next set of results.</p>"
  }
}
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Information about the tags.</p>"
    }
  }
},
"ListTokensRequest":{
  "type":"structure",
  "members":{
    "TokenIds":{
      "shape":"StringList",
      "documentation":"<p>Token IDs.</p>"
    },
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>Filters to scope the results. The following filter is supported:</p> <ul> <li> <p>
<code>LicenseArns</code> </p> </li> </ul>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of
results.</p>"
    },
    "MaxResults":{

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    "shape": "MaxSize100",
    "documentation": "<p>Maximum number of results to return in a single call.</p>"
  }
}
},
"ListTokensResponse": {
  "type": "structure",
  "members": {
    "Tokens": {
      "shape": "TokenList",
      "documentation": "<p>Received token details.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>Token for the next set of results.</p>"
    }
  }
},
"ListUsageForLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String",
      "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    },
    "MaxResults": {
      "shape": "BoxInteger",
      "documentation": "<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"NextToken": {
  "shape": "String",
  "documentation": "<p>Token for the next set of results.</p>"
},
"Filters": {
  "shape": "Filters",
  "documentation": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code> - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
}
}
},

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"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationUsageList":{
      "shape":"LicenseConfigurationUsageList",
      "documentation":"<p>Information about the license configurations.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":"<p>Type of resource associated with a license.</p>"
    },
    "AssociationCount":{
      "shape":"BoxLong",
      "documentation":"<p>Number of resources associated with licenses.</p>"
    }
  },
  "documentation":"<p>Summary information about a managed resource.</p>"
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
  "max":100,
  "min":1
},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{

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    "shape": "String",
    "documentation": "<p>The key name.</p>"
  },
  "Value": {
    "shape": "String",
    "documentation": "<p>The value.</p>"
  }
},
"documentation": "<p>Describes key/value pairs.</p>"
},
"MetadataList": {
  "type": "list",
  "member": { "shape": "Metadata" }
},
"NoEntitlementsAllowedException": {
  "type": "structure",
  "members": {
    "Message": { "shape": "Message" }
  },
  "documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is
reached.</p>",
  "exception": true
},
"Options": {
  "type": "structure",
  "members": {
    "ActivationOverrideBehavior": {
      "shape": "ActivationOverrideBehavior",
      "documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.
Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace.
Additionally, the operation must specify the value of <code>ACTIVE</code> for the <code>Status</code>
parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify an
<code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can
optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in
your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an
<code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p>
</li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate
a grant without replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
other active grants in any member accounts for the same product. This action will also replace their previously
activated grants with this activated grant.</p> </dd> </dl>"
    }
  },
  "documentation": "<p>The options you can specify when you create a new version of a grant, such as activation
override behavior. For more information, see <a href='\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License
Manager User Guide</i>.</p>"
},

```

```

"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{
      "shape":"Boolean",
      "documentation":"<p>Enables Organizations integration.</p>"
    }
  },

  "documentation":"<p>Configuration information for Organizations.</p>"
},
"PrincipalArnList":{
  "type":"list",
  "member":{"shape":"Arn"},
  "max":1,
  "min":1
},
"ProductInformation":{
  "type":"structure",
  "required":[
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members":{
    "ResourceType":{
      "shape":"String",
      "documentation":"<p>Resource type. The possible values are <code>SSM_MANAGED</code> |
<code>RDS</code>.</p>"
    },
    "ProductInformationFilterList":{
      "shape":"ProductInformationFilterList",
      "documentation":"<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code>
are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>.
</p> <p>The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:</p>
<ul> <li> <p> <code>Application Name</code> - The name of the application. Logical operator is
<code>EQUALS</code>.</p> </li> <li> <p> <code>Application Publisher</code> - The publisher of the
application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application Version</code> -
The version of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform
Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p>
<code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.</p> </li> <li>
<p> <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude
from automated discovery. Logical

```

operator is `NOT_EQUALS`. The key for your tag must be appended to `Tag:` following the example: `Tag:name-of-your-key`. `ProductInformationFilterValue` is optional if you are not using values for the key.

- `AccountId` - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is `NOT_EQUALS`.
- `License Included` - The type of license included. Logical operators are `EQUALS` and `NOT_EQUALS`. Possible values are: `sql-server-enterprise` | `sql-server-standard` | `sql-server-web` | `windows-server-datacenter`.

The following filters and logical operators are supported when the resource type is `RDS`:

- `Engine Edition` - The edition of the database engine. Logical operator is `EQUALS`. Possible values are: `oracle-ee` | `oracle-se` | `oracle-se1` | `oracle-se2`.
- `License Pack` - The license pack. Logical operator is `EQUALS`. Possible values are: `data guard` | `diagnostic pack sqlt` | `tuning pack sqlt` | `ols` | `olap`.

```

    }
  },
  "documentation": "<p>Describes product information for a license configuration.</p>"
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{
      "shape":"String",
      "documentation":"<p>Filter name.</p>"
    },
    "ProductInformationFilterValue":{
      "shape":"StringList",
      "documentation":"<p>Filter value.</p>"
    },
    "ProductInformationFilterComparator":{
      "shape":"String",
      "documentation":"<p>Logical operator.</p>"
    }
  },
  "documentation":"<p>Describes product information filters.</p>"
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},

```

```

"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum time for the provisional configuration, in minutes.</p>"
    }
  },
  "documentation":"<p>Details about a provisional configuration.</p>"
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Too many requests have been submitted. Try again after
a brief wait.</p>",
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{
      "shape":"ReceivedStatus",
      "documentation":"<p>Received status.</p>"
    },
    "ReceivedStatusReason":{
      "shape":"StatusReasonMessage",
      "documentation":"<p>Received status reason.</p>"
    },
    "AllowedOperations":{
      "shape":"AllowedOperationList",
      "documentation":"<p>Allowed operations.</p>"
    }
  },
  "documentation":"<p>Metadata associated with received licenses and grants.</p>"
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",

```



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    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>This is not the correct Region for the resource. Try again.</p>",
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    }
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Grant ARN.</p>"
    },
    "Status":{
      "shape":"GrantStatus",
      "documentation":"<p>Grant status.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{

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```

    "type": "structure",
    "required": ["licenseConfigurationArns"],
    "members": {
      "licenseConfigurationArns": {
        "shape": "ArnList",
        "documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports
on.</p>"
      }
    },
    "documentation": "<p>Details of the license configuration that this generator reports on.</p>"
  },
  "ReportFrequency": {
    "type": "structure",
    "members": {
      "value": {
        "shape": "Integer",
        "documentation": "<p>Number of times within the frequency period that a report is generated. The only
supported value is <code>1</code>.</p>"
      },
      "period": {
        "shape": "ReportFrequencyType",
        "documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
      }
    },
    "documentation": "<p>Details about how frequently reports are generated.</p>"
  },
  "ReportFrequencyType": {
    "type": "string",
    "enum": [
      "DAY",
      "WEEK",
      "MONTH"
    ]
  },
  "ReportGenerator": {
    "type": "structure",
    "members": {
      "ReportGeneratorName": {
        "shape": "String",
        "documentation": "<p>Name of the report generator.</p>"
      },
      "ReportType": {
        "shape": "ReportTypeList",
        "documentation": "<p>Type of reports that are generated.</p>"
      },
      "ReportContext": {
        "shape": "ReportContext",
        "documentation": "<p>License configuration type for this generator.</p>"
      }
    }
  }
}

```

```

    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Details about how frequently reports are generated.</p>"
    },
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator.</p>"
    },
    "LastRunStatus":{
      "shape":"String",
      "documentation":"<p>Status of the
last report generation attempt.</p>"
    },
    "LastRunFailureReason":{
      "shape":"String",
      "documentation":"<p>Failure message for the last report generation attempt.</p>"
    },
    "LastReportGenerationTime":{
      "shape":"String",
      "documentation":"<p>Time the last report was generated at.</p>"
    },
    "ReportCreatorAccount":{
      "shape":"String",
      "documentation":"<p>The Amazon Web Services account ID used to create the report generator.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the report generator.</p>"
    },
    "S3Location":{
      "shape":"S3Location",
      "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
    },
    "CreateTime":{
      "shape":"String",
      "documentation":"<p>Time the report was created.</p>"
    },
    "Tags":{
      "shape":"TagList",
      "documentation":"<p>Tags associated with the report generator.</p>"
    },
    "documentation":"<p>Describe the details of a report generator.</p>"
  },
  "ReportGeneratorList":{
    "type":"list",

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    "member":{"shape":"ReportGenerator"}
  },
  "ReportGeneratorName":{"
    "type":"string",
    "max":100,
    "min":1
  },
  "ReportType":{"
    "type":"string",
    "enum":[
      "LicenseConfigurationSummaryReport",
      "LicenseConfigurationUsageReport"
    ]
  },
  "ReportTypeList":{"
    "type":"list",
    "member":{"shape":"ReportType"}
  },
  "ResourceInventory":{"
    "type":"structure",
    "members":{"
      "ResourceId":{"
        "shape":"String",
        "documentation":"<p>ID of the resource.</p>"
      },
      "ResourceType":{"
        "shape":"ResourceType",
        "documentation":"<p>Type of resource.</p>"
      },
      "ResourceArn":{"
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
      },
      "Platform":{"
        "shape":"String",
        "documentation":"<p>Platform of the resource.</p>"
      },
      "PlatformVersion":{"
        "shape":"String",
        "documentation":"<p>Platform version of the resource in the inventory.</p>"
      },
      "ResourceOwningAccountId":{"
        "shape":"String",
        "documentation":"<p>ID of the account that owns the resource.</p>"
      }
    }
  },
  "documentation":"<p>Details about a resource.</p>"
},

```

```

"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>Your resource limits have been exceeded.</p>",
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The resource cannot be found.</p>",
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{
      "shape":"String",
      "documentation":"<p>Name of the S3 bucket reports are published to.</p>"
    },
    "keyPrefix":{
      "shape":"String",
      "documentation":"<p>Prefix of the S3 bucket reports are published to.</p>"
    }
  },
  "documentation":"<p>Details of the S3 bucket that report generator reports are published to.</p>"
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
}

```

```

    },
    "documentation": "<p>The server experienced an internal error. Try again.</p>",
    "exception": true,
    "fault": true
  },
  "SignedToken": {
    "type": "string",
    "min": 4096
  },
  "StatusReasonMessage": {
    "type": "string",
    "max": 400,
    "pattern": "[\\s\\S]+"
  },
  "String": { "type": "string" },
  "StringList": {
    "type": "list",
    "member": { "shape": "String" }
  },
  "Tag": {
    "type": "structure",
    "members": {
      "Key": {
        "shape": "String",
        "documentation": "<p>Tag key.</p>"
      },
      "Value": {
        "shape": "String",
        "documentation": "<p>Tag value.</p>"
      }
    }
  },
  "documentation": "<p>Details about a tag for a license configuration.</p>"
},
"TagKeyList": {
  "type": "list",
  "member": { "shape": "String" }
},
"TagList": {
  "type": "list",
  "member": { "shape": "Tag" }
},
"TagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
    "Tags"
  ],
  "members": {

```

```

"ResourceArn":{
  "shape":"String",
  "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
},
"Tags":{
  "shape":"TagList",
  "documentation":"<p>One or more tags.</p>"
}
},
"TagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{
      "shape":"String",
      "documentation":"<p>Token ID.</p>"
    },
    "TokenType":{
      "shape":"String",
      "documentation":"<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
    },
    "LicenseArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "ExpirationTime":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Token expiration time, in ISO8601-UTC format.</p>"
    },
    "TokenProperties":{
      "shape":"MaxSize3StringList",
      "documentation":"<p>Data specified by the caller.</p>"
    },
    "RoleArns":{
      "shape":"ArnList",
      "documentation":"<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>"
    }
  }
}

```

```

    },
    "documentation": "<p>Describes a token.</p>"
  },
  "TokenList": {
    "type": "list",
    "member": { "shape": "TokenData" }
  },
  "TokenString": {
    "type": "string",
    "max": 4096,
    "pattern": "\\S+"
  },
  "TokenType": {
    "type": "string",
    "enum": ["REFRESH_TOKEN"]
  },
  "UnsupportedDigitalSignatureMethodException": {
    "type": "structure",
    "members": {
      "Message": { "shape": "Message" }
    },
    "documentation": "<p>The digital signature method is unsupported.  
Try your request again.</p>",
    "exception": true
  },
  "UntagResourceRequest": {
    "type": "structure",
    "required": [
      "ResourceArn",
      "TagKeys"
    ],
    "members": {
      "ResourceArn": {
        "shape": "String",
        "documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
      },
      "TagKeys": {
        "shape": "TagKeyList",
        "documentation": "<p>Keys identifying the tags to remove.</p>"
      }
    }
  },
  "UntagResourceResponse": {
    "type": "structure",
    "members": {
    }
  },
  "UpdateLicenseConfigurationRequest": {

```



```

"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
  "LicenseConfigurationArn":{
    "shape":"String",
    "documentation":"<p>Amazon Resource Name (ARN) of the license configuration.</p>"
  },
  "LicenseConfigurationStatus":{
    "shape":"LicenseConfigurationStatus",
    "documentation":"<p>New
status of the license configuration.</p>"
  },
  "LicenseRules":{
    "shape":"StringList",
    "documentation":"<p>New license rule. The only rule that you can add after you create a license configuration
is licenseAffinityToHost.</p>"
  },
  "LicenseCount":{
    "shape":"BoxLong",
    "documentation":"<p>New number of licenses managed by the license configuration.</p>"
  },
  "LicenseCountHardLimit":{
    "shape":"BoxBoolean",
    "documentation":"<p>New hard limit of the number of available licenses.</p>"
  },
  "Name":{
    "shape":"String",
    "documentation":"<p>New name of the license configuration.</p>"
  },
  "Description":{
    "shape":"String",
    "documentation":"<p>New description of the license configuration.</p>"
  },
  "ProductInformationList":{
    "shape":"ProductInformationList",
    "documentation":"<p>New
product information.</p>"
  },
  "DisassociateWhenNotFound":{
    "shape":"BoxBoolean",
    "documentation":"<p>When true, disassociates a resource when software is uninstalled.</p>"
  }
}
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{

```

```

},
"UpdateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the report generator to update.</p>"
    },
    "ReportGeneratorName":{
      "shape":"ReportGeneratorName",
      "documentation":"<p>Name of the report generator.</p>"
    },
    "Type":{
      "shape":"ReportTypeList",
      "documentation":"<p>Type of reports to generate. The following report types are supported:</p> <ul> <li>
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource consumption for a
license configuration.</p> </li> </ul>"
    },
    "ReportContext":{
      "shape":"ReportContext",
      "documentation":"<p>The report context.</p>"
    },
    "ReportFrequency":{
      "shape":"ReportFrequency",
      "documentation":"<p>Frequency by which reports are generated.</p>"
    },
    "ClientToken":{
      "shape":"ClientRequestToken",
      "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
    },
    "Description":{
      "shape":"String",
      "documentation":"<p>Description of the report generator.</p>"
    }
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{

```

```

    "type":"structure",
    "members":{
    }
  },
  "UpdateLicenseSpecificationsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>"
      },
      "AddLicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>ARNs of the license configurations to add.</p>"
      },
      "RemoveLicenseSpecifications":{
        "shape":"LicenseSpecifications",
        "documentation":"<p>ARNs of the license configurations to remove.</p>"
      }
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "members":{
      "S3BucketArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager
information is stored.</p>"
      },
      "SnsTopicArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager
alerts.</p>"
      },
      "OrganizationConfiguration":{
        "shape":"OrganizationConfiguration",
        "documentation":"<p>Enables integration with Organizations for cross-account discovery.</p>"
      },
      "EnableCrossAccountsDiscovery":{
        "shape":"BoxBoolean",
        "documentation":"<p>Activates cross-account discovery.</p>"
      }
    }
  }

```

```

    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
      }
  },
  "UsageOperation":{
    "type":"string",
    "max":50
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "documentation":"<p>The provided input is not valid. Try your request again.</p>",
    "exception":true
  }
},
"documentation":"<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>"
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,

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        "UseDualStack": false
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack
enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
            }
        },
        "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
        }
    }
}

```

```

    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"

    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
    }
  },
  "params": {
    "Region": "cn-north-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},

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{
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  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
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{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
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    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
}
},
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  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,

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        "UseDualStack": true
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",

        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-isob-east-1",

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        "UseFIPS": true,
        "UseDualStack": true
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{
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    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",

        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation":
    "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"

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    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
  "expect": {
    "endpoint": {
      "url": "https://example.com"
    }
  },
  "params": {
    "UseFIPS": false,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
  "expect": {
    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
  "expect": {
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{

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    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  },
  "version": "1.0"
}
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  "testCases": [
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      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-northeast-1",
        "UseFIPS": false,
        "UseDualStack": false

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    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-3",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-south-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-south-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-1.amazonaws.com"
      }
    },
  },

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    "params": {
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      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-southeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-southeast-3.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-southeast-3",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation":
    "For region ca-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ca-central-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ca-central-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {

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    "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.eu-central-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "eu-central-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.eu-north-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "eu-north-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.eu-south-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "eu-south-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.eu-west-1.amazonaws.com"
      }
    },
    "params":

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{
    "Region": "eu-west-1",
    "UseFIPS": false,
    "UseDualStack": false
},
{
    "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
    },
    "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
    },
    "params": {
        "Region": "eu-west-3",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.me-south-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "me-south-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",

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"expect": {
  "endpoint": {
    "url": "https://license-manager.sa-east-1.amazonaws.com"
  }
},
"params": {
  "Region": "sa-east-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
  "expect": {

    "endpoint": {
      "url": "https://license-manager.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-east-2.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-east-2",

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        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-east-2.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-east-2",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-west-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-west-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
}
},
{
    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-west-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-west-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
}
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{
    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {

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        "url": "https://license-manager.us-west-2.amazonaws.com"
    }
},
"params": {
    "Region": "us-west-2",
    "UseFIPS": false,
    "UseDualStack": false
}
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{
    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
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        "url": "https://license-manager-fips.us-west-2.amazonaws.com"
    }
},
    "params": {
        "Region": "us-west-2",
        "UseFIPS": true,
        "UseDualStack": false
    }
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{
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    "expect": {
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            "url": "https://license-manager-fips.us-east-1.api.aws"
        }
},
    "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-east-1.api.aws"
        }
},
},
"params": {
    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true
}

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    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-northwest-1",
      "UseFIPS": false,
      "UseDualStack":
false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
      }
    }
  }
}

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    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
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  },
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    "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
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        "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {

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"documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
"expect": {
  "endpoint": {
    "url": "https://license-manager.us-gov-west-1.amazonaws.com"
  }
},
"params": {
  "Region": "us-gov-west-1",
  "UseFIPS": false,
  "UseDualStack": false
}
},
{
  "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
    }
  },
  "params": {

    "Region": "us-gov-west-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",

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        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
        }
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {

"endpoint": {
            "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
    },
    "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },

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```

    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
      }
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
      }
    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    }
  }
}

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    },
    "params": {
      "Region": "us-isob-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",

```



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    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
    }
  }
],
"version": "1.0"
}

```

UNRECOGNIZED LICENSE; MD5 sum: 2886531be5850bb97381e0bbafc3aaf7

AWS Signature Version 4 Test Suite

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```

{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-user-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager User Subscriptions",
    "serviceId": "License Manager User Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-user-subscriptions",
    "uid": "license-manager-user-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "AssociateUser": {
      "name": "AssociateUser",
      "http": {
        "method": "POST",
        "requestUri": "/user/AssociateUser",
        "responseCode": 200
      },
      "input": { "shape": "AssociateUserRequest" },
      "output": { "shape": "AssociateUserResponse" },
      "errors": [

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    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
  "idempotent":true
},
"CreateLicenseServerEndpoint":{
  "name":"CreateLicenseServerEndpoint",
  "http":{
    "method":"POST",
    "requestUri":"/license-server/CreateLicenseServerEndpoint",
    "responseCode":200
  },
  "input":{"shape":"CreateLicenseServerEndpointRequest"},
  "output":{"shape":"CreateLicenseServerEndpointResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation": "<p>Creates a network endpoint for the Remote Desktop Services (RDS) license server.</p>",
  "idempotent":true
},
"DeleteLicenseServerEndpoint":{
  "name":"DeleteLicenseServerEndpoint",
  "http":{
    "method":"POST",
    "requestUri":"/license-server/DeleteLicenseServerEndpoint",
    "responseCode":200
  },
  "input":{"shape":"DeleteLicenseServerEndpointRequest"},
  "output":{"shape":"DeleteLicenseServerEndpointResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},

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    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Deletes a <code>LicenseServerEndpoint</code> resource.</p>",
  "idempotent":true
},
"DeregisterIdentityProvider":{
  "name":"DeregisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/DeregisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"DeregisterIdentityProviderRequest"},
  "output":{"shape":"DeregisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Deregisters the Active Directory identity provider from License Manager user-based
subscriptions.</p>",
  "idempotent":true
},
"DisassociateUser":{
  "name":"DisassociateUser",
  "http":{
    "method":"POST",
    "requestUri":"/user/DisassociateUser",
    "responseCode":200
  },
  "input":{"shape":"DisassociateUserRequest"},
  "output":{"shape":"DisassociateUserResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},

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    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
  "idempotent":true
},
"ListIdentityProviders":{
  "name":"ListIdentityProviders",

  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the Active Directory identity providers for user-based subscriptions.</p>"
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the EC2 instances providing user-based subscriptions.</p>"
},
"ListLicenseServerEndpoints":{
  "name":"ListLicenseServerEndpoints",

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"http":{
  "method":"POST",
  "requestUri":"/license-server/ListLicenseServerEndpoints",
  "responseCode":200
},
"input":{"shape":"ListLicenseServerEndpointsRequest"},
"output":{"shape":"ListLicenseServerEndpointsResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>List the Remote Desktop Services (RDS) License Server endpoints </p>"
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists the user-based subscription products available from an identity provider.</p>"
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"ValidationException"},

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    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Returns the list of tags for the specified resource.</p>"
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Lists user associations for an identity provider.</p>"
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Registers an identity provider for user-based subscriptions.</p>",
  "idempotent":true
},
"StartProductSubscription":{

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"name":"StartProductSubscription",
"http":{"
  "method":"POST",
  "requestUri":"/user/StartProductSubscription",
  "responseCode":200
},
"input":{"shape":"StartProductSubscriptionRequest"},
"output":{"shape":"StartProductSubscriptionResponse"},
"errors":[
  {"shape":"ServiceQuotaExceededException"},
  {"shape":"ConflictException"},
  {"shape":"ValidationException"},
  {"shape":"ThrottlingException"},
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
],
"documentation":"<p>Starts a product subscription for a user with the specified identity provider.</p> <note>
<p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing
periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more
information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing
your monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>"
},
"StopProductSubscription":{"
  "name":"StopProductSubscription",
  "http":{"
    "method":"POST",
    "requestUri":"/user/StopProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StopProductSubscriptionRequest"},
  "output":{"shape":"StopProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Stops a product subscription for a user with the specified identity provider.</p>"
},
"TagResource":{"
  "name":"TagResource",

  "http":{"
    "method":"PUT",

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    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Adds tags to a resource.</p>",
  "idempotent":true
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"DELETE",
    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Removes tags from a resource.</p>",
  "idempotent":true
},
"UpdateIdentityProviderSettings":{
  "name":"UpdateIdentityProviderSettings",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/UpdateIdentityProviderSettings",
    "responseCode":200
  },
  "input":{"shape":"UpdateIdentityProviderSettingsRequest"},
  "output":{"shape":"UpdateIdentityProviderSettingsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Updates additional product configuration settings for the registered identity provider.</p>",
  "idempotent":true
}

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},
"shapes":{
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>You don't have sufficient access to perform this action.</p>",
    "exception":true
  },
  "ActiveDirectoryIdentityProvider":{
    "type":"structure",
    "members":{

      "ActiveDirectorySettings":{
        "shape":"ActiveDirectorySettings",
        "documentation":"<p>The <code>ActiveDirectorySettings</code> resource contains details about the Active Directory, including network access details such as domain name and IP addresses, and the credential provider for user administration.</p>"
      },
      "ActiveDirectoryType":{
        "shape":"ActiveDirectoryType",
        "documentation":"<p>The type of Active Directory either a self-managed Active Directory or an Amazon Web Services Managed Active Directory.</p>"
      },
      "DirectoryId":{
        "shape":"Directory",
        "documentation":"<p>The directory ID for an Active Directory identity provider.</p>"
      }
    },
    "documentation":"<p>Details about an Active Directory identity provider.</p>"
  },
  "ActiveDirectorySettings":{
    "type":"structure",
    "members":{
      "DomainCredentialsProvider":{
        "shape":"CredentialsProvider",

        "documentation":"<p>Points to the <code>CredentialsProvider</code> resource that contains information about the credential provider for user administration.</p>"
      },
      "DomainIpv4List":{
        "shape":"ActiveDirectorySettingsDomainIpv4ListList",
        "documentation":"<p>A list of domain IPv4 addresses that are used for the Active Directory.</p>"
      },
      "DomainName":{
        "shape":"String",
        "documentation":"<p>The domain name for the Active Directory.</p>"
      }
    }
  }
}

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    },
    "DomainNetworkSettings":{
      "shape":"DomainNetworkSettings",
      "documentation":"<p>The <code>DomainNetworkSettings</code> resource contains an array of subnets that
apply for the Active Directory.</p>"
    }
  },
  "documentation":"<p>Contains network access and credential details that are needed for user administration in
the Active Directory.</p>"
},
"ActiveDirectorySettingsDomainIpv4ListList":{
  "type":"list",
  "member":{"shape":"IpV4"},
  "max":2,
  "min":1
},
"ActiveDirectoryType":{
  "type":"string",
  "enum":[
    "SELF_MANAGED",
    "AWS_MANAGED"
  ]
},
"Arn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-
\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
},
"AssociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains information for the user to
associate.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>The identity provider for the user.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance that provides

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the user-based subscription.</p>"

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    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply for the user association.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the identity provider.</p>"
    }
  }
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{
      "shape":"InstanceUserSummary",
      "documentation":"<p>Metadata that describes the associate user operation.</p>"
    }
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>The request couldn't be completed because it conflicted with the current state of the
resource.</p>",
  "exception":true,
  "fault":true
},
"CreateLicenseServerEndpointRequest":{
  "type":"structure",
  "required":[
    "IdentityProviderArn",
    "LicenseServerSettings"
  ],
  "members":{
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code>
resource that contains details about a registered identity provider. In the case of Active Directory, that can be a self-
managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity
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details.</p>"

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    },
    "LicenseServerSettings":{
      "shape":"LicenseServerSettings",
      "documentation":"<p>The <code>LicenseServerSettings</code> resource to create for the endpoint. The
settings include the type of license server and the Secrets Manager secret that enables administrators to add or
remove users associated with the license server.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply for the license server endpoint.</p>"
    }
  }
},
"CreateLicenseServerEndpointResponse":{
  "type":"structure",
  "members":{
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider specified in the
request.</p>"
    },
    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The ARN of the <code>LicenseServerEndpoint</code> resource.</p>"
    }
  }
},
"CredentialsProvider":{
  "type":"structure",
  "members":{
    "SecretsManagerCredentialsProvider":{
      "shape":"SecretsManagerCredentialsProvider",
      "documentation":"<p>Identifies the Secrets Manager secret that contains credentials needed for user
administration in the Active Directory.</p>"
    }
  },
  "documentation":"<p>Contains information about the credential provider for user
administration.</p>",
  "union":true
},
"DeleteLicenseServerEndpointRequest":{
  "type":"structure",
  "required":[
    "LicenseServerEndpointArn",
    "ServerType"
  ],
  "members":{
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    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> resource to delete.</p>"
    },
    "ServerType":{
      "shape":"ServerType",
      "documentation":"<p>The type of License Server that the delete request refers to.</p>"
    }
  },
  "DeleteLicenseServerEndpointResponse":{
    "type":"structure",
    "members":{
      "LicenseServerEndpoint":{
        "shape":"LicenseServerEndpoint",
        "documentation":"<p>Shows details from the <code>LicenseServerEndpoint</code> resource that was
deleted.</p>"
      }
    }
  },
  "DeregisterIdentityProviderRequest":{
    "type":"structure",
    "members":{
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
      },
      "IdentityProviderArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) that identifies the identity provider to
deregister.</p>"
      },
      "Product":{
        "shape":"String",
        "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
      }
    }
  },
  "DeregisterIdentityProviderResponse":{
    "type":"structure",
    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{
        "shape":"IdentityProviderSummary",
        "documentation":"<p>Metadata that describes the results

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of an identity provider operation.</p>"

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    }
  }
},
"Directory":{
  "type":"string",
  "pattern":"^(d|sd)-[0-9a-f]{10}$"
},
"DisassociateUserRequest":{
  "type":"structure",
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains information for the user to
disassociate.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance which provides user-based subscriptions.</p>"
    },
    "InstanceUserArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the user to disassociate from the EC2
instance.</p>"
    },
    "Username":{
      "shape":"String",
      "documentation":"<p>The user name from the Active Directory identity provider for the user.</p>"
    }
  }
},
"DisassociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{
      "shape":"InstanceUserSummary",
      "documentation":"<p>Metadata that describes the associate user operation.</p>"
    }
  }
},
"DomainNetworkSettings":{
  "type":"structure",
  "required":["Subnets"],
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"members":{
  "Subnets":{
    "shape":"DomainNetworkSettingsSubnetsList",
    "documentation":"<p>Contains a list of subnets that apply for the Active Directory domain.</p>"
  }
},
"documentation":"<p>Contains network settings for the Active Directory domain.</p>"
},
"DomainNetworkSettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{
      "shape":"String",
      "documentation":"<p>The name of an attribute to use as a filter.</p>"
    },
    "Operation":{
      "shape":"String",
      "documentation":"<p>The type of search (For example, eq, geq, leq)</p>"
    },
    "Value":{
      "shape":"String",
      "documentation":"<p>Value of the filter.</p>"
    }
  },
  "documentation":"<p>A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>"
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"IdentityProvider":{
  "type":"structure",
  "members":{
    "ActiveDirectoryIdentityProvider":{
      "shape":"ActiveDirectoryIdentityProvider",
      "documentation":"<p>The <code>ActiveDirectoryIdentityProvider</code> resource contains settings and other details about a specific Active Directory identity provider.</p>"
    }
  },
  "documentation":"<p>Refers to an identity provider.</p>",
  "union":true

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},
"IdentityProviderSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members":{
    "FailureMessage":{
      "shape":"String",
      "documentation":"<p>The failure message associated with an identity provider.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>The <code>IdentityProvider</code> resource contains information about an identity
provider.</p>"
    },
    "IdentityProviderArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The
name of the user-based subscription product.</p>"
    },
    "Settings":{
      "shape":"Settings",
      "documentation":"<p>The <code>Settings</code> resource contains details about the registered identity
providers product related configuration settings, such as the subnets to provision VPC endpoints.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>The status of the identity provider.</p>"
    }
  },
  "documentation":"<p>Describes an identity provider.</p>"
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",

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    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
    },
    "LastStatusCheckDate":{
      "shape":"String",
      "documentation":"<p>The date of the last status check.</p>"
    },
    "Products":{
      "shape":"StringList",
      "documentation":"<p>A list of provided user-based subscription products.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>The status of an EC2 instance resource.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for an EC2 instance.</p>"
    }
  },
  "documentation":"<p>Describes an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{
      "shape":"String",
      "documentation":"<p>The date a user was associated with an EC2 instance.</p>"
    },
    "DisassociationDate":{
      "shape":"String",
      "documentation":"<p>The date a user was disassociated from an EC2 instance.</p>"
    }
  }
}

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    },
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user information for the
product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>The <code>IdentityProvider</code> resource specifies details about the identity
provider.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance that provides user-based subscriptions.</p>"
    },
    "InstanceUserArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) that identifies the instance user.</p>"
    },
  },
  "Status":{
    "shape":"String",
    "documentation":"<p>The status of a user associated with an EC2 instance.</p>"
  },
  "StatusMessage":{
    "shape":"String",
    "documentation":"<p>The status message for users of an EC2 instance.</p>"
  },
  "Username":{
    "shape":"String",
    "documentation":"<p>The user name from the identity provider for the user.</p>"
  }
},
"documentation":"<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>An exception occurred with the service.</p>",
  "error":{"httpStatusCode":500},
  "exception":true,
  "fault":true
}

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},
"IPv4":{
  "type":"string",

  "pattern":"^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|1[0-9][0-9]|(\\.(?!$)|$)){4}$"
},
"LicenseServer":{
  "type":"structure",
  "members":{
    "HealthStatus":{
      "shape":"LicenseServerHealthStatus",
      "documentation":"<p>The health status of the RDS license server.</p>"
    },
    "Ipv4Address":{
      "shape":"String",
      "documentation":"<p>A list of domain IPv4 addresses that are used for the RDS license server.</p>"
    },
    "ProvisioningStatus":{
      "shape":"LicenseServerEndpointProvisioningStatus",
      "documentation":"<p>The current state of the provisioning process for the RDS license server.</p>"
    }
  },
  "documentation":"<p>Information about a Remote Desktop Services (RDS) license server.</p>"
},
"LicenseServerEndpoint":{
  "type":"structure",
  "members":{
    "CreationTime":{
      "shape":"Timestamp",
      "documentation":"<p>The timestamp when License
Manager created the license server endpoint.</p>"
    },
    "IdentityProviderArn":{
      "shape":"String",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider that's associated with the
RDS license server endpoint.</p>"
    },
    "LicenseServerEndpointArn":{
      "shape":"Arn",
      "documentation":"<p>The ARN of the <code>ServerEndpoint</code> resource for the RDS license
server.</p>"
    },
    "LicenseServerEndpointId":{
      "shape":"LicenseServerEndpointId",
      "documentation":"<p>The ID of the license server endpoint.</p>"
    },
    "LicenseServerEndpointProvisioningStatus":{
      "shape":"LicenseServerEndpointProvisioningStatus",

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    "documentation": "<p>The current state of the provisioning process for the RDS license server endpoint</p>"
  },
  "LicenseServers": {
    "shape": "LicenseServerList",
    "documentation": "<p>An array of <code>LicenseServer</code>
resources that represent the license servers that are accessed through this endpoint.</p>"
  },
  "ServerEndpoint": {
    "shape": "ServerEndpoint",
    "documentation": "<p>The <code>ServerEndpoint</code> resource contains the network address of the RDS
license server endpoint.</p>"
  },
  "ServerType": {
    "shape": "ServerType",
    "documentation": "<p>The type of license server.</p>"
  },
  "StatusMessage": {
    "shape": "String",
    "documentation": "<p>The message associated with the provisioning status, if there is one.</p>"
  }
},
"documentation": "<p>Contains details about a network endpoint for a Remote Desktop Services (RDS) license
server.</p>"
},
"LicenseServerEndpointId": { "type": "string" },
"LicenseServerEndpointList": {
  "type": "list",
  "member": { "shape": "LicenseServerEndpoint" }
},
"LicenseServerEndpointProvisioningStatus": {
  "type": "string",
  "enum": [
    "PROVISIONING",
    "PROVISIONING_FAILED",
    "PROVISIONED",
    "DELETING",
    "DELETION_FAILED",
    "DELETED"
  ]
},
"LicenseServerHealthStatus": {
  "type": "string",
  "enum": [
    "HEALTHY",
    "UNHEALTHY",
    "NOT_APPLICABLE"
  ]
}
},

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"LicenseServerList":{
  "type":"list",
  "member":{"shape":"LicenseServer"}
},
"LicenseServerSettings":{
  "type":"structure",
  "required":[
    "ServerSettings",
    "ServerType"
  ],
  "members":{
    "ServerSettings":{
      "shape":"ServerSettings",
      "documentation":"<p>The <code>ServerSettings</code> resource contains the settings for your server.</p>"
    },
    "ServerType":{
      "shape":"ServerType",
      "documentation":"<p>The type of license server.</p>"
    }
  },
  "documentation":"<p>The settings to configure your license server.</p>"
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Product</p>
</li> <li> <p>DirectoryId</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
    }
  },
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{
      "shape":"IdentityProviderSummaryList",
      "documentation":"<p>An array of <code>IdentityProviderSummary</code> resources that contain details

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about the

Active Directory identity providers that meet the request criteria.</p>"

```
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>InstanceId</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating.
This is the nextToken from a previously truncated response.</p>"
    }
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{
      "shape":"InstanceSummaryList",
      "documentation":"<p>An array of <code>InstanceSummary</code> resources that contain details about the
instances that provide user-based subscriptions and also meet the request criteria.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListLicenseServerEndpointsRequest":{
  "type":"structure",
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"members":{
  "Filters":{
    "shape":"FilterList",
    "documentation":"<p>You can use the following filters to streamline results:</p>
<ul> <li> <p>IdentityProviderArn</p> </li> </ul>"
  },
  "MaxResults":{
    "shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
    "documentation":"<p>The maximum number of results to return from a single request.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
  }
},
"ListLicenseServerEndpointsRequestMaxResultsInteger":{
  "type":"integer",
  "box":true,
  "max":100,
  "min":1
},
"ListLicenseServerEndpointsResponse":{
  "type":"structure",
  "members":{
    "LicenseServerEndpoints":{
      "shape":"LicenseServerEndpointList",
      "documentation":"<p>An array of <code>LicenseServerEndpoint</code> resources that contain detailed
information about the RDS License Servers that meet the request criteria.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    }
  }
},
"ListProductSubscriptionsRequest":{
  "type":"structure",
  "required":["IdentityProvider"],
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>Status</p>
</li> <li> <p>Username</p> </li> <li> <p>Domain</p> </li> </ul>"
    }
  }
}

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    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from
a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  }
},
"ListProductSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    },
    "ProductUserSummaries":{
      "shape":"ProductUserSummaryList",
      "documentation":"<p>Metadata that describes the list product subscriptions operation.</p>"
    }
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{
      "shape":"ResourceArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource whose tags you want to
retrieve.</p>",
      "location":"uri",
      "locationName":"ResourceArn"
    }
  }
}

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    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags for the specified resource.</p>"
    }
  }
},
"ListUserAssociationsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId"
  ],
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>You
can use the following filters to streamline results:</p> <ul> <li> <p>Status</p> </li> <li> <p>Username</p> </li>
<li> <p>Domain</p> </li> </ul>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "InstanceId":{
      "shape":"String",
      "documentation":"<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum number of results to return from a single request.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously
truncated response.</p>"
    }
  }
},
"ListUserAssociationsResponse":{
  "type":"structure",
  "members":{
    "InstanceUserSummaries":{

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    "shape":"InstanceUserSummaryList",
    "documentation":"<p>Metadata that describes the list user association operation.</p>"
  },
  "NextToken":{
    "shape":"String",
    "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"
  }
},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user information for the product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p>"
    },
    "ProductUserArn":{
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) for this product user.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>The status of a product for this user.</p>"
    },
    "StatusMessage":{
      "shape":"String",
      "documentation":"<p>The status message for a product for this user.</p>"
    },
    "SubscriptionEndDate":{
      "shape":"String",

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    "documentation": "<p>The end date of a subscription.</p>"
  },
  "SubscriptionStartDate": {
    "shape": "String",
    "documentation": "<p>The start date of a subscription.</p>"
  },
  "Username": {
    "shape": "String",
    "documentation": "<p>The user name
from the identity provider for this product user.</p>"
  }
},
"documentation": "<p>A summary of the user-based subscription products for a specific user.</p>"
},
"ProductUserSummaryList": {
  "type": "list",
  "member": { "shape": "ProductUserSummary" }
},
"RdsSalSettings": {
  "type": "structure",
  "required": ["RdsSalCredentialsProvider"],
  "members": {
    "RdsSalCredentialsProvider": {
      "shape": "CredentialsProvider",
      "documentation": "<p>The <code>CredentialsProvider</code> resource contains a reference to the credentials
provider that's used for RDS license server user administration.</p>"
    }
  }
},
"documentation": "<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
},
"RegisterIdentityProviderRequest": {
  "type": "structure",
  "required": [
    "IdentityProvider",
    "Product"
  ],
  "members": {
    "IdentityProvider": {
      "shape": "IdentityProvider",
      "documentation": "<p>An object that specifies details for the identity provider to register.</p>"
    },
    "Product": {
      "shape": "String",
      "documentation": "<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    }
  }
},

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    "Settings":{
      "shape":"Settings",
      "documentation":"<p>The registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags that apply to the identity provider's registration.</p>"
    }
  },
  "RegisterIdentityProviderResponse":{
    "type":"structure",
    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{
        "shape":"IdentityProviderSummary",
        "documentation":"<p>Metadata that describes the results of an identity provider operation.</p>"
      }
    }
  },
  "ResourceArn":{
    "type":"string",
    "pattern":"^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
  },
  "ResourceNotFoundException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The resource couldn't be found.</p>",
    "error":{
      "statusCode":404,
      "senderFault":true
    },
    "exception":true
  },
  "SecretsManagerCredentialsProvider":{
    "type":"structure",
    "members":{
      "SecretId":{
        "shape":"SecretsManagerCredentialsProviderSecretIdString",
        "documentation":"<p>The ID of the Secrets Manager secret that contains credentials.</p>"
      }
    }
  },

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    "documentation": "<p>Contains a credentials secret that's stored in Secrets Manager.</p>"
  },
  "SecretsManagerCredentialsProviderSecretIdString": {
    "type": "string",
    "min": 1
  },
  "SecurityGroup": {
    "type": "string",
    "max": 200,
    "min": 5,
    "pattern": "^sg-([0-9a-z]{8})|([0-9a-z]{17})$"
  },
  "ServerEndpoint": {
    "type": "structure",
    "members": {
      "Endpoint": {
        "shape": "String",
        "documentation": "<p>The network address of the endpoint.</p>"
      }
    },
    "documentation": "<p>A network endpoint through which you can access one or more servers.</p>"
  },
  "ServerSettings": {
    "type": "structure",
    "members": {
      "RdsSalSettings": {
        "shape": "RdsSalSettings",
        "documentation": "<p>The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server.</p>"
      }
    },
    "documentation": "<p>Contains settings for a specific server.</p>",
    "union": true
  },
  "ServerType": {
    "type": "string",
    "enum": ["RDS_SAL"]
  },
  "ServiceQuotaExceededException": {
    "type": "structure",
    "members": {
      "message": { "shape": "String" }
    },
    "documentation": "<p>The request failed because a service quota is exceeded.</p>",
    "exception": true
  },
  "Settings": {

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"type":"structure",
"required":[
  "SecurityGroupId",
  "Subnets"
],
"members":{
  "SecurityGroupId":{
    "shape":"SecurityGroup",
    "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoint for activation servers.</p>"
  },
  "Subnets":{
    "shape":"SettingsSubnetsList",
    "documentation":"<p>The subnets defined for the registered identity provider.</p>"
  }
},
"documentation":"<p>The registered identity providers
product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID
that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
from resources in the VPC.</p>"
},
"SettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{
      "shape":"String",
      "documentation":"<p>The domain name of the Active Directory that contains the user for whom to start the
product subscription.</p>"
    },
    "IdentityProvider":{
      "shape":"IdentityProvider",
      "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
      "shape":"String",
      "documentation":"<p>The
name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |

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<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags that apply to the product subscription.</p>"
    },
    "Username":{
        "shape":"String",
        "documentation":"<p>The user name from the identity provider of the user.</p>"
    }
}
},
"StartProductSubscriptionResponse":{
    "type":"structure",
    "required":["ProductUserSummary"],
    "members":{
        "ProductUserSummary":{
            "shape":"ProductUserSummary",
            "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
        }
    }
},
"StopProductSubscriptionRequest":{
    "type":"structure",
    "members":{
        "Domain":{
            "shape":"String",
            "documentation":"<p>The domain name of the Active Directory that contains the user for whom to stop the
product subscription.</p>"
        }
    },
    "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the identity provider.</p>"
    },
    "Product":{
        "shape":"String",
        "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "ProductUserArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the product user.</p>"
    },
    "Username":{
        "shape":"String",
        "documentation":"<p>The user name from the identity provider for the user.</p>"
    }
}

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    }
  },
  "StopProductSubscriptionResponse":{
    "type":"structure",
    "required":["ProductUserSummary"],
    "members":{
      "ProductUserSummary":{
        "shape":"ProductUserSummary",
        "documentation":"<p>Metadata that describes the start product subscription operation.</p>"
      }
    }
  },
  "String":{ "type":"string" },
  "StringList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "Subnet":{
    "type":"string",
    "pattern":"^subnet-[a-z0-9]{8,17}"
  },
  "Subnets":{
    "type":"list",
    "member":{"shape":"Subnet"}
  },
  "TagKeyList":{
    "type":"list",
    "member":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "TagResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "Tags"
    ],
    "members":{
      "ResourceArn":{
        "shape":"ResourceArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the resource that you want to tag.</p>",
        "location":"uri",
        "locationName":"ResourceArn"
      },
      "Tags":{
        "shape":"Tags",

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    "documentation": "<p>The tags to apply to the specified resource.</p>"
  }
}
},
"TagResourceResponse": {
  "type": "structure",
  "members": {
  }
},
"Tags": {
  "type": "map",
  "key": { "shape": "String" },
  "value": { "shape": "String" },
  "max": 50,
  "min": 0,
  "sensitive": true
},
"ThrottlingException": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  },
  "documentation": "<p>The request was denied because of request throttling. Retry the request.</p>",
  "exception": true
},
"Timestamp": { "type": "timestamp" },
"UntagResourceRequest": {
  "type": "structure",
  "required": [
    "ResourceArn",
    "TagKeys"
  ],
  "members": {
    "ResourceArn": {
      "shape": "ResourceArn",
      "documentation": "<p>The Amazon
Resource Name (ARN) of the resource that you want to remove tags from.</p>",
      "location": "uri",
      "locationName": "ResourceArn"
    },
    "TagKeys": {
      "shape": "TagKeyList",
      "documentation": "<p>The tag keys to remove from the resource.</p>",
      "location": "querystring",
      "locationName": "tagKeys"
    }
  }
},
},

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"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":["UpdateSettings"],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "IdentityProviderArn":{"
      "shape":"Arn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider to update.</p>"
    },
    "Product":{"
      "shape":"String",
      "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code>
| <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
<code>REMOTE_DESKTOP_SERVICES</code> </p>"
    },
    "UpdateSettings":{"
      "shape":"UpdateSettings",
      "documentation":"<p>Updates the registered identity providers product related configuration settings. You can
update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to
add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints
from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  }
},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[
    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{"
      "shape":"Subnets",
      "documentation":"<p>The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that require connectivity to activation servers.</p>"
    }
  }
}

```

```

    },
    "RemoveSubnets":{
      "shape":"Subnets",
      "documentation":"<p>The ID of one or more subnets to remove.</p>"
    },
    "SecurityGroupId":{
      "shape":"SecurityGroup",
      "documentation":"<p>A security group ID that allows inbound TCP port 1688 communication between
resources in your VPC and the VPC endpoints for activation servers.</p>"
    }
  },
  "documentation":"<p>Updates the registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "documentation":"<p>A parameter
is not valid.</p>",
  "exception":true
}
},
"documentation":"<p>With License Manager, you can create user-based subscriptions to utilize licensed software
with a per user subscription fee on Amazon EC2 instances.</p>"
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,

```

"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"

},

"Endpoint": {

"builtIn": "SDK::Endpoint",

"required": false,

"documentation": "Override the endpoint used to send this request",

"type": "String"

}

},

"rules": [

{

"conditions": [

{

"fn": "isSet",

"argv": [

{

"ref": "Endpoint"

}

]

}

],

"rules": [

{

"conditions": [

{

"fn": "booleanEquals",

"argv": [

{

"ref": "UseFIPS"

},

true

]

}

],

"error": "Invalid Configuration: FIPS and custom endpoint are not supported",

"type": "error"

},

{

"conditions": [],

"rules": [

{

"conditions": [

{

"fn": "booleanEquals",

"argv": [

```

        {
            "ref": "UseDualStack"
        },
        true
    ]
}
],
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
"type": "error"
},
{
    "conditions": [],
    "endpoint": {
        "url": {

            "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ]
                }
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {

```

```

"fn": "aws.partition",
  "argv": [
    {
      "ref": "Region"
    }
  ],
  "assign": "PartitionResult"
}
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      },
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseDualStack"
          },
          true
        ]
      }
    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              true,
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ]
      }
    ]
  }
]

```

```

        }
    ]
},
{
    "fn": "booleanEquals",
    "argv": [
        true,
        {
            "fn": "getAttr",
            "argv": [
                {
                    "ref": "PartitionResult"
                },
                "supportsDualStack"
            ]
        }
    ]
},
],
"rules": [
    {
        "conditions": [],
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
    }
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
    "type": "error"
}

```

```

    ],
    "type": "tree"
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        true
      }
    ]
  },
  {
    "rules": [
      {
        "conditions": [],
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            }
          }
        ]
      }
    ]
  }
]

```



```

        },
        "type": "endpoint"
    }
    ],
    "type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,

```

```

{
    "fn": "getAttr",
    "argv": [
        {
            "ref": "PartitionResult"
        },
        "supportsDualStack"
    ]
}
]

```

```

        }
    ],
    "rules": [
        {
            "conditions": [],
            "rules": [

{
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"
}
],
"type": "tree"
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",
    "type": "error"
}
],
"type": "tree"
},
{
    "conditions": [],
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},

"headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"

```

```

        }
      ],
      "type": "tree"
    }
  ],
  "type": "tree"
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
],
"type": "tree"
}
]
}
{
  "pagination": {
    "ListAssociationsForLicenseConfiguration": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurationAssociations"
    },
    "ListLicenseConfigurations": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurations"
    },
    "ListLicenseSpecificationsForResource": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseSpecifications"
    },
    "ListResourceInventory": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "ResourceInventoryList"
    },
    "ListUsageForLicenseConfiguration": {
      "input_token": "NextToken",
      "limit_key": "MaxResults",
      "output_token": "NextToken",
      "result_key": "LicenseConfigurationUsageList"
    }
  }
}

```

```

    }
  }
}
{
  "pagination": {
    "ListLinuxSubscriptionInstances": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Instances"
    },
    "ListLinuxSubscriptions": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "Subscriptions"
    },
    "ListRegisteredSubscriptionProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "RegisteredSubscriptionProviders"
    }
  }
}
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-linux-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "protocols": ["rest-json"],
    "serviceFullName": "AWS License Manager Linux Subscriptions",
    "serviceId": "License Manager Linux Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-linux-subscriptions",
    "uid": "license-manager-linux-subscriptions-2018-05-10",
    "auth": ["aws.auth#sigv4"]
  },
  "operations": {
    "DeregisterSubscriptionProvider": {
      "name": "DeregisterSubscriptionProvider",
      "http": {
        "method": "POST",
        "requestUri": "/subscription/DeregisterSubscriptionProvider",
        "responseCode": 200
      }
    },

```

```

"input":{"shape":"DeregisterSubscriptionProviderRequest"},
"output":{"shape":"DeregisterSubscriptionProviderResponse"},
"errors":[
  {"shape":"InternalServerError"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"ThrottlingException"},
  {"shape":"ValidationException"}
],
"documentation":"<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL)
subscriptions registered to your account.</p>",
"idempotent":true
},
"GetRegisteredSubscriptionProvider":{
  "name":"GetRegisteredSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
  "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Get details for a Bring Your Own License (BYOL) subscription that's registered to your
account.</p>",
  "idempotent":true
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the Linux subscriptions service settings for your account.</p>",
  "idempotent":true
},

```

```

"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux
subscriptions.</p>",
  "idempotent":true
},
"ListLinuxSubscriptions":{
  "name":"ListLinuxSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionsRequest"},
  "output":{"shape":"ListLinuxSubscriptionsResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Lists the Linux subscriptions that have been discovered. If you have linked your
organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
  "idempotent":true
},
"ListRegisteredSubscriptionProviders":{
  "name":"ListRegisteredSubscriptionProviders",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
    "responseCode":200
  },
  "input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
  "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},

```

```

    {"shape":"ValidationException"}
  ],
  "documentation":"<p>List Bring Your Own License (BYOL) subscription registration resources for your
account.</p>",
  "idempotent":true
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>List the metadata tags that are assigned to the specified Amazon Web Services
resource.</p>"
},
"RegisterSubscriptionProvider":{
  "name":"RegisterSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/RegisterSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterSubscriptionProviderRequest"},
  "output":{"shape":"RegisterSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerError"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "documentation":"<p>Register the supported third-party subscription provider for your Bring Your Own License
(BYOL) subscription.</p>",
  "idempotent":true
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"PUT",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200

```

```

    },
    "input":{"shape":"TagResourceRequest"},
    "output":{"shape":"TagResourceResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"ValidationException"}
    ],
    "documentation":"<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
    "idempotent":true
  },
  "UntagResource":{
    "name":"UntagResource",
    "http":{
      "method":"DELETE",
      "requestUri":"/tags/{resourceArn}",
      "responseCode":200
    },
    "input":{"shape":"UntagResourceRequest"},
    "output":{"shape":"UntagResourceResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"}
    ],
    "documentation":"<p>Remove one or more metadata tag from the specified Amazon Web Services
resource.</p>",
    "idempotent":true
  },
  "UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/UpdateServiceSettings",
      "responseCode":200
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
      {"shape":"InternalServerError"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "documentation":"<p>Updates the service settings for Linux subscriptions.</p>",
    "idempotent":true
  }
},
"shapes":{
  "Boolean":{

```



```

    "type": "boolean",
    "box": true
  },
  "BoxInteger": {
    "type": "integer",
    "box": true
  },
  "BoxLong": {
    "type": "long",
    "box": true
  },
  "DeregisterSubscriptionProviderRequest": {
    "type": "structure",
    "required": ["SubscriptionProviderArn"],
    "members": {
      "SubscriptionProviderArn": {
        "shape": "SubscriptionProviderArn",
        "documentation": "<p>The Amazon Resource Name (ARN) of the subscription provider resource to
deregister.</p>"
      }
    }
  },
  "DeregisterSubscriptionProviderResponse": {
    "type": "structure",
    "members": {
    }
  },
  "Filter": {
    "type": "structure",
    "members": {
      "Name": {
        "shape": "String",
        "documentation": "<p>The type of name to filter by.</p>"
      },
      "Operator": {
        "shape": "Operator",
        "documentation": "<p>An operator for filtering results.</p>"
      },
      "Values": {
        "shape": "StringList",
        "documentation": "<p>One or more values for the name to filter by.</p>"
      }
    }
  },
  "documentation": "<p>A filter object that is used to return more specific results from a describe operation. Filters
can be used to match a set of resources by specific criteria.</p>"
},
  "FilterList": {
    "type": "list",

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    "member":{"shape":"Filter"}
  },
  "GetRegisteredSubscriptionProviderRequest":{
    "type":"structure",
    "required":["SubscriptionProviderArn"],
    "members":{
      "SubscriptionProviderArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details
for.</p>"
      }
    }
  },
  "GetRegisteredSubscriptionProviderResponse":{
    "type":"structure",
    "members":{
      "LastSuccessfulDataRetrievalTime":{
        "shape":"String",
        "documentation":"<p>The timestamp from the last time License Manager retrieved subscription details from
your registered third-party Linux subscription provider.</p>"
      },
      "SecretArn":{
        "shape":"SecretArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets
Manager for the BYOL registration resource specified in the request.</p>"
      },
      "SubscriptionProviderArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) for the BYOL registration resource specified in
the request.</p>"
      },
      "SubscriptionProviderSource":{
        "shape":"SubscriptionProviderSource",
        "documentation":"<p>The subscription provider for the BYOL registration resource specified in the
request.</p>"
      },
      "SubscriptionProviderStatus":{
        "shape":"SubscriptionProviderStatus",
        "documentation":"<p>The status of the Linux subscription provider access token from the last successful
subscription data request.</p>"
      },
      "SubscriptionProviderStatusMessage":{
        "shape":"String",
        "documentation":"<p>The detailed message from your subscription provider token status.</p>"
      }
    }
  },
},

```

```

"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "HomeRegions":{
      "shape":"StringList",
      "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscovery":{
      "shape":"LinuxSubscriptionsDiscovery",
      "documentation":"<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
    },
    "LinuxSubscriptionsDiscoverySettings":{
      "shape":"LinuxSubscriptionsDiscoverySettings",
      "documentation":"<p>Lists the settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
    },
    "Status":{
      "shape":"Status",
      "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
    },
    "StatusMessage":{
      "shape":"StringMap",
      "documentation":"<p>A
message which details the Linux subscriptions service settings current status.</p>"
    }
  },
  "Instance":{
    "type":"structure",
    "members":{
      "AccountID":{
        "shape":"String",
        "documentation":"<p>The account ID which owns the instance.</p>"
      },
      "AmiId":{
        "shape":"String",
        "documentation":"<p>The AMI ID used to launch the instance.</p>"
      },
      "DualSubscription":{
        "shape":"String",
        "documentation":"<p>Indicates that you have two different license subscriptions for the same software on your
instance.</p>"
      }
    }
  }
}

```

```

    },
    "InstanceID":{
      "shape":"String",
      "documentation":"<p>The instance ID of the resource.</p>"
    },
    "InstanceType":{
      "shape":"String",
      "documentation":"<p>The instance type of the resource.</p>"
    },
    "LastUpdatedTime":{
      "shape":"String",
      "documentation":"<p>The
time in which the last discovery updated the instance details.</p>"
    },
    "OsVersion":{
      "shape":"String",
      "documentation":"<p>The operating system software version that runs on your instance.</p>"
    },
    "ProductCode":{
      "shape":"ProductCodeList",
      "documentation":"<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
    },
    "Region":{
      "shape":"String",
      "documentation":"<p>The Region the instance is running in.</p>"
    },
    "RegisteredWithSubscriptionProvider":{
      "shape":"String",
      "documentation":"<p>Indicates that your instance uses a BYOL license subscription from a third-party Linux
subscription provider that you've registered with License Manager.</p>"
    },
    "Status":{
      "shape":"String",
      "documentation":"<p>The status of the instance.</p>"
    },
    "SubscriptionName":{
      "shape":"String",
      "documentation":"<p>The name of the license subscription that the instance uses.</p>"
    },
    "SubscriptionProviderCreateTime":{
      "shape":"String",
      "documentation":"<p>The timestamp when you registered the third-party Linux subscription provider for the
subscription that the instance uses.</p>"
    },
    "SubscriptionProviderUpdateTime":{
      "shape":"String",

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```

    "documentation": "<p>The timestamp from the last time that the instance synced with the registered third-party
Linux subscription provider.</p>"
  },
  "UsageOperation": {
    "shape": "String",
    "documentation": "<p>The usage operation of the instance. For more information, see For more information,
see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage
operation values</a> in the <i>License Manager User Guide</i>.</p>"
  }
},
"documentation": "<p>Details discovered information about a running instance using Linux subscriptions.</p>"
},
"InstanceList": {
  "type": "list",
  "member": { "shape": "Instance" }
},
"InternalServerError": {
  "type": "structure",
  "members": {
    "message": { "shape": "String" }
  }
},
"documentation": "<p>An exception occurred with the service.</p>",
"exception": true,
"fault": true
},
"LinuxSubscriptionsDiscovery": {
  "type": "string",
  "enum": [
    "Enabled",
    "Disabled"
  ]
},
"LinuxSubscriptionsDiscoverySettings": {
  "type": "structure",
  "required": [
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members": {
    "OrganizationIntegration": {
      "shape": "OrganizationIntegration",
      "documentation": "<p>Details
if you have enabled resource discovery across your accounts in Organizations.</p>"
    },
    "SourceRegions": {
      "shape": "StringList",
      "documentation": "<p>The Regions in which to discover data for Linux subscriptions.</p>"
    }
  }
}

```

```

    }
  },
  "documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation": "<p>An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:</p>
      <ul>
        <li><p> <code>AccountID</code> </p> </li>
        <li><p> <code>AmiID</code> </p> </li>
        <li><p> <code>DualSubscription</code> </p> </li>
        <li><p> <code>InstanceID</code> </p> </li>
        <li><p> <code>InstanceType</code> </p> </li>
        <li><p> <code>ProductCode</code> </p> </li>
        <li><p> <code>Region</code> </p> </li>
        <li><p> <code>Status</code> </p> </li>
        <li><p> <code>UsageOperation</code> </p> </li>
      </ul>
      <p>For each filter, you can use one of the following <code>Operator</code> values to define the behavior of the filter:</p>
      <ul>
        <li><p> <code>contains</code> </p> </li>
        <li><p> <code>equals</code> </p> </li>
        <li><p> <code>Notequal</code> </p> </li>
      </ul>
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation": "<p>The maximum items to return in a request.</p>"
    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
      "documentation": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
    }
  },
  "documentation": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases.</p>"
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
  "type":"structure",
  "members":{
    "Instances":{
      "shape":"InstanceList",
      "documentation": "<p>An array that contains instance objects.</p>"
    },
    "NextToken":{

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    "shape":"String",
    "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{
      "shape":"FilterList",
      "documentation":"<p>An array of structures that you can use to filter the results to those that match one or
more sets of key-value pairs that you specify. For example, you can filter by the name of
<code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't
match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li> <p>
<code>Subscription</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p>
<code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>NotEqual</code>
</p> </li> </ul>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>The maximum items to return in a request.</p>"
    },
    "NextToken":{
      "shape":"ListLinuxSubscriptionsRequestNextTokenString",
      "documentation":"<p>A token to specify where
to start paginating. This is the nextToken from a previously truncated response.</p>"
    }
  },
  "documentation":"<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in
request increases.</p>"
},
"ListLinuxSubscriptionsRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{
      "shape":"String",
      "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects.</p>"
    },
    "Subscriptions":{

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    "shape": "SubscriptionList",
    "documentation": "<p>An array that contains subscription objects.</p>"
  }
}
},
"ListRegisteredSubscriptionProvidersRequest": {
  "type": "structure",
  "members": {
    "MaxResults": {
      "shape": "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
      "documentation": "<p>The maximum items to return in a request.</p>"
    },
    "NextToken": {
      "shape": "String",
      "documentation": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
    },
    "SubscriptionProviderSources": {
      "shape": "SubscriptionProviderSourceList",
      "documentation": "<p>To filter your results, specify which subscription providers to return in the list.</p>"
    }
  }
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
  "type": "integer",
  "box": true,
  "max": 100,
  "min": 1
},
"ListRegisteredSubscriptionProvidersResponse": {
  "type": "structure",
  "members": {
    "NextToken": {
      "shape": "String",
      "documentation": "<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"
    },
    "RegisteredSubscriptionProviders": {
      "shape": "RegisteredSubscriptionProviderList",
      "documentation": "<p>The list of BYOL registration resources that fit the criteria you specified in the request.</p>"
    }
  }
},
"ListTagsForResourceRequest": {
  "type": "structure",
  "required": ["resourceArn"],

```



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"members":{
  "resourceArn":{
    "shape":"SubscriptionProviderArn",
    "documentation":"<p>The Amazon Resource Name (ARN) of the resource for which to list metadata
tags.</p>",
    "location":"uri",
    "locationName":"resourceArn"
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "tags":{
      "shape":"Tags",

      "documentation":"<p>The metadata tags for the requested resource.</p>"
    }
  },
  "Operator":{
    "type":"string",
    "enum":[
      "Equal",
      "NotEqual",
      "Contains"
    ],
    "max":20,
    "min":1
  },
  "OrganizationIntegration":{
    "type":"string",
    "enum":[
      "Enabled",
      "Disabled"
    ]
  },
  "ProductCodeList":{
    "type":"list",
    "member":{"shape":"String"}
  },
  "RegisterSubscriptionProviderRequest":{
    "type":"structure",
    "required":[
      "SecretArn",
      "SubscriptionProviderSource"
    ],
    "members":{

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    "SecretArn":{
      "shape":"SecretArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the secret where you've stored your subscription
provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the
secret contains your Red Hat Offline token.</p>"
    },
    "SubscriptionProviderSource":{
      "shape":"SubscriptionProviderSource",
      "documentation":"<p>The supported Linux subscription provider to register.</p>"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The metadata tags to assign to your registered Linux subscription provider
resource.</p>"
    }
  },
  "RegisterSubscriptionProviderResponse":{
    "type":"structure",
    "members":{
      "SubscriptionProviderArn":{
        "shape":"String",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
      },
      "SubscriptionProviderSource":{
        "shape":"SubscriptionProviderSource",
        "documentation":"<p>The Linux subscription provider that you registered.</p>"
      },
      "SubscriptionProviderStatus":{
        "shape":"SubscriptionProviderStatus",
        "documentation":"<p>Indicates the status of the registration action for
the Linux subscription provider that you requested.</p>"
      }
    }
  },
  "RegisteredSubscriptionProvider":{
    "type":"structure",
    "members":{
      "LastSuccessfulDataRetrievalTime":{
        "shape":"String",
        "documentation":"<p>The timestamp from the last time that License Manager accessed third-party
subscription data for your account from your registered Linux subscription provider.</p>"
      },
      "SecretArn":{
        "shape":"SecretArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your
registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token.</p>"
      }
    }
  }
}

```

```

    },
    "SubscriptionProviderArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Linux subscription provider resource that
you registered.</p>"
    },
    "SubscriptionProviderSource":{

        "shape":"SubscriptionProviderSource",
        "documentation":"<p>A supported third-party Linux subscription provider. License Manager currently
supports Red Hat subscriptions.</p>"
    },
    "SubscriptionProviderStatus":{
        "shape":"SubscriptionProviderStatus",
        "documentation":"<p>Indicates the status of your registered Linux subscription provider access token from the
last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the
offline token.</p>"
    },
    "SubscriptionProviderStatusMessage":{
        "shape":"String",
        "documentation":"<p>A detailed message that's associated with your BYOL subscription provider token
status.</p>"
    }
},
    "documentation":"<p>A third-party provider for operating system (OS) platform software and license
subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can
get subscription
data from the registered provider.</p>"
},
    "RegisteredSubscriptionProviderList":{
        "type":"list",
        "member":{"shape":"RegisteredSubscriptionProvider"}
    },
    "ResourceNotFoundException":{
        "type":"structure",
        "members":{
            "message":{"shape":"String"}
        },
        "documentation":"<p>Unable to find the requested Amazon Web Services resource.</p>",
        "exception":true
    },
    "SecretArn":{
        "type":"string",
        "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
    },
    "Status":{
        "type":"string",
        "enum":[

```

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    "InProgress",
    "Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
"StringListMemberString":{
  "type":"string",
  "max":100,
  "min":1
},
"StringMap":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{
  "type":"structure",
  "members":{
    "InstanceCount":{
      "shape":"BoxLong",
      "documentation":"<p>The total amount of running instances using this subscription.</p>"
    },
    "Name":{
      "shape":"String",
      "documentation":"<p>The name of the subscription.</p>"
    },
    "Type":{
      "shape":"String",
      "documentation":"<p>The type of subscription. The type can be subscription-included with Amazon EC2,
Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain
subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon
EC2 or BYOS.</p>"
    }
  },
  "documentation":"<p>An object which details a discovered Linux subscription.</p>"
},
"SubscriptionList":{
  "type":"list",
  "member":{"shape":"Subscription"}
}

```

```

    },
    "SubscriptionProviderArn":{
      "type":"string",
      "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-
z0-9-\\.]{1,510}$"
    },
    "SubscriptionProviderSource":{
      "type":"string",
      "enum":["RedHat"]
    },
    "SubscriptionProviderSourceList":{
      "type":"list",
      "member":{"shape":"SubscriptionProviderSource"}
    },
    "SubscriptionProviderStatus":{
      "type":"string",
      "enum":[
        "ACTIVE",
        "INVALID",
        "PENDING"
      ]
    },
    "TagKeyList":{
      "type":"list",
      "member":{"shape":"String"},
      "max":50,
      "min":0,
      "sensitive":true
    },
    "TagResourceRequest":{
      "type":"structure",
      "required":[
        "resourceArn",
        "tags"
      ],
      "members":{
        "resourceArn":{
          "shape":"SubscriptionProviderArn",
          "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon
Web Services resource to which to add the specified metadata tags.</p>",
          "location":"uri",
          "locationName":"resourceArn"
        },
        "tags":{
          "shape":"Tags",
          "documentation":"<p>The metadata tags to assign to the Amazon Web Services resource. Tags are formatted
as key value pairs.</p>"
        }
      }
    }
  }

```

```

    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "ThrottlingException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The request was denied due to request throttling.</p>",
    "exception":true
  },
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tagKeys"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from.</p>",
        "location":"uri",
        "locationName":"resourceArn"
      },
      "tagKeys":{
        "shape":"TagKeyList",
        "documentation":"<p>A list of metadata tag keys to remove from the requested resource.</p>",
        "location":"querystring",
        "locationName":"tagKeys"
      }
    }
  },
  "UntagResourceResponse":{
    "type":"structure",
    "members":{

```

```

    }
  },
  "UpdateServiceSettingsRequest":{
    "type":"structure",
    "required":[
      "LinuxSubscriptionsDiscovery",
      "LinuxSubscriptionsDiscoverySettings"
    ],
    "members":{
      "AllowUpdate":{
        "shape":"Boolean",
        "documentation":"<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you
allow updates, you can aggregate
Linux subscription data in more than one home Region.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Describes if the discovery of Linux subscriptions is enabled.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
      }
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
      "HomeRegions":{
        "shape":"StringList",
        "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Lists
if discovery has been enabled for Linux subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>The settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
      },
      "Status":{
        "shape":"Status",
        "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
      }
    }
  },

```

```

    "StatusMessage":{
      "shape":"StringMap",
      "documentation":"<p>A message which details the Linux subscriptions service settings current status.</p>"
    }
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":"<p>The provided input is not valid. Try your request again.</p>",
    "exception":true
  }
},
"documentation":"<p>With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances.</p>"
}
{
  "ResponseMetadata": {
    "RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
  }
}
{
  "version": "1.0",
  "examples": {
  }
}
}

```

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```
{
  "pagination": {
    "ListIdentityProviders": {
      "input_token": "NextToken",
      "output_token": "NextToken",
      "limit_key": "MaxResults",
      "result_key": "IdentityProviderSummaries"
    },
  },
}
```

```

"ListInstances": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "InstanceSummaries"
},
"ListProductSubscriptions": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "ProductUserSummaries"
},
"ListUserAssociations": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "InstanceUserSummaries"
},
"ListLicenseServerEndpoints": {
  "input_token": "NextToken",
  "output_token": "NextToken",
  "limit_key": "MaxResults",
  "result_key": "LicenseServerEndpoints"
}
}
}

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{  
  "version": "1.0",  
  "parameters": {
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```

"Region": {
  "builtIn": "AWS::Region",
  "required": false,
  "documentation": "The AWS region used to dispatch the request.",
  "type": "String"
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  "builtIn": "AWS::UseDualStack",
  "required": true,
  "default": false,
  "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
  "type": "Boolean"
},
"UseFIPS": {
  "builtIn": "AWS::UseFIPS",
  "required": true,
  "default": false,
  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
  "type": "Boolean"
},
"Endpoint": {
  "builtIn": "SDK::Endpoint",
  "required": false,
  "documentation": "Override the endpoint used to send this request",
  "type": "String"
}
},
"rules": [
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  "conditions": [
    {
      "fn": "isSet",
      "argv": [
        {
          "ref": "Endpoint"
        }
      ]
    }
  ]
}
],
"type": "tree",
"rules": [
{
  "conditions": [
    {
      "fn": "booleanEquals",

```

```

        "argv": [
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            },
            true
        ]
    },
    "error": "Invalid Configuration: FIPS and custom
endpoint are not supported",
    "type": "error"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
},
{
    "conditions": [],
    "endpoint": {
        "url": {
            "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [
                {
                    "ref": "Region"
                }
            ]
        }
    ]
}

```

```

        }
    ]
}
],
"type": "tree",
"rules": [
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        "conditions": [
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                "fn": "aws.partition",
                "argv": [
                    {
                        "ref": "Region"
                    }
                ],
                "assign": "PartitionResult"
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn":
"booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {

```

```

        "fn": "booleanEquals",
        "argv": [
            true,
            {
                "fn": "getAttr",
                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsFIPS"
                ]
            }
        ],
    },
    {
        "fn": "booleanEquals",
        "argv": [
            true,
            {
                "fn": "getAttr",
                "argv": [
                    {
                        "ref": "PartitionResult"
                    },
                    "supportsDualStack"
                ]
            }
        ],
    },
    "type": "tree",
    "rules": [
        {
            "conditions": [],
            "endpoint": {
                "url": "https://license-manager-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
    }

```

```

        "type": "error"
      }
    ]
  },
  {
    "conditions": [
      {
        "fn": "booleanEquals",

"argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              true,
              {
                "fn": "getAttr",
                "argv": [
                  {

"ref": "PartitionResult"

                },
                "supportsFIPS"
              ]
            }
          ]
        }
      },
      {
        "type": "tree",
        "rules": [
          {
            "conditions": [],
            "endpoint": {
              "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      }
    ]
  }
]

```

```

        }
    ]
},
{
    "conditions": [],
    "error": "FIPS is enabled but this partition does not support FIPS",
    "type": "error"
}
]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type":
"tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ]
        }
    ]
}

],
"type": "tree",
"rules": [
    {
        "conditions": [],

```



```

        "endpoint": {
            "url": "https://license-manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
            "properties": {},
            "headers": {}
        },
        "type": "endpoint"
    }
]
},
{
    "conditions": [],
    "error": "DualStack is enabled but this partition does not support DualStack",

    "type": "error"
}
]
},
{
    "conditions": [],
    "endpoint": {
        "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
]
}
]
},
{
    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
{
    "ResponseMetadata": {
        "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
    }
}
{
    "version": "1.0",
    "parameters": {
        "Region": {
            "builtIn": "AWS::Region",
            "required": false,

```

```

    "documentation": "The AWS region used to dispatch the request.",
    "type": "String"
  },
  "UseDualStack": {
    "builtIn": "AWS::UseDualStack",
    "required": true,
    "default": false,
    "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
    "type": "Boolean"
  },
  "UseFIPS": {
    "builtIn": "AWS::UseFIPS",
    "required": true,
    "default": false,
    "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured
endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
    "type": "Boolean"
  },
  "Endpoint": {
    "builtIn": "SDK::Endpoint",
    "required": false,
    "documentation": "Override the endpoint used to send this request",
    "type": "String"
  }
},
"rules": [
  {
    "conditions": [
      {
        "fn": "isSet",
        "argv": [
          {
            "ref": "Endpoint"
          }
        ]
      }
    ]
  }
],
"rules": [
  {
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          }
        ]
      }
    ]
  }
]

```

```

        true
    ]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
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    "type": "error"
},
{
    "conditions": [],
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            "ref": "Endpoint"
        },
        "properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [
                {
                    "ref": "Region"
                }
            ]
        }
    ]
}
],
"rules": [

```

```

{
  "conditions": [
    {
      "fn": "aws.partition",
      "argv": [
        {
          "ref": "Region"
        }
      ],
      "assign": "PartitionResult"
    }
  ],
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseFIPS"
            },
            true
          ],
          "true": true
        },
        {
          "fn": "booleanEquals",
          "argv": [
            {
              "ref": "UseDualStack"
            },
            true
          ],
          "true": true
        }
      ],
      "rules": [
        {
          "conditions": [
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              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                true
              ],
              "true": true
            }
          ],
          "rules": [
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "PartitionResult"
              ],
              "true": true
            }
          ]
        }
      ]
    }
  ]
}

```

```

        "supportsFIPS"
      ]
    }
  ]
},
{
  "fn": "booleanEquals",
  "argv": [
    true,
    {
      "fn": "getAttr",
      "argv": [
        {
          "ref": "PartitionResult"
        },
        "supportsDualStack"
      ]
    }
  ]
},
],
"rules": [
  {
    "conditions": [],
    "endpoint": {
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
      "properties": {},
      "headers": {}
    },
    "type": "endpoint"
  },
  {
    "type": "tree"
  },
  {
    "conditions": [],
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    "type": "error"
  }
],
"type": "tree"
},
{
  "conditions": [
    {

```

```

        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseFIPS"
            },
            true
        ]
    },
    ],
    "rules": [
        {
            "conditions": [
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                    "argv": [
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
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                                },
                                "supportsFIPS"
                            ]
                        },
                        true
                    ]
                }
            ],
            "rules": [
                {
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fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ],
            "type": "tree"
        },
        {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ]
}

```

```

    }
  ],
  "type": "tree"
},
{
  "conditions": [
    {
      "fn": "booleanEquals",
      "argv": [
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          "ref": "UseDualStack"
        },
        true
      ]
    }
  ]
},
{
  "rules": [
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            true,
            {
              "fn": "getAttr",
              "argv": [
                {
                  "ref": "PartitionResult"
                },
                "supportsDualStack"
              ]
            }
          ]
        }
      ]
    }
  ],
  "rules": [
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
}

```

```

        ],
        "type": "tree"
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    {
        "conditions": [],
        "error": "DualStack is enabled but this partition does not support DualStack",
        "type": "error"
    }
],
"type": "tree"
},
{
    "conditions": [],
    "endpoint": {
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        "headers": {}
    },
    "type": "endpoint"
}
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}
],
"type": "tree"
},
{
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    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
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    "testCases": [
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        }
    ]
}

```



```

    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
      "expect": {
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        }
      },
      "params": {
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        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
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        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
    },

```

```

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      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
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      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
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      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {

```

```

    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
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    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
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      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
    }
  },
  "params": {
    "Region": "us-gov-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

```

```

},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
{
  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
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  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": true
  }
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  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
    }
  },
  "params": {
    "Region": "us-iso-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

```

```

},
{
  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
  "expect": {
    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
  },
  "params": {
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    "UseFIPS": true,
    "UseDualStack": true
  }
},
{
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  "expect": {
    "endpoint": {
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    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": true,
    "UseDualStack": false
  }
},
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  "expect": {
    "error": "DualStack is enabled but this partition does not support DualStack"
  },
  "params": {
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    "UseFIPS": false,
    "UseDualStack": true
  }
},
{
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  "expect": {
    "endpoint": {
      "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
    }
  },
  "params": {
    "Region": "us-isob-east-1",
    "UseFIPS": false,
    "UseDualStack": false
  }
}

```

```

    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect":
    {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
    "expect": {
      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
    },
    "params": {

```

```

    "Region": "us-east-1",
    "UseFIPS": false,
    "UseDualStack": true,
    "Endpoint": "https://example.com"
  }
},
{
  "documentation": "Missing region",
  "expect": {
    "error": "Invalid Configuration: Missing Region"
  }
}
],
"version": "1.0"
}

```

1.193 django-rotate-secret-key

0e8dac667a421dddacc019bf5328b5ea67ae08db

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1.194 django 4.2.19

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django.dispatch was originally forked from PyDispatcher.

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May

2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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=====
Advice for new contributors
=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Get up and running!

If you are new to contributing to Django, the :doc:`intro/contributing` tutorial will give you an introduction to the tools and the workflow.

This page contains more general advice on ways you can contribute to Django, and how to approach that.

If you are looking for a reference on the details of making code contributions, see the :doc:`internals/contributing/writing-code/index` documentation.

First steps

=====

Start with these steps to discover Django's development process.

*** **Triage tickets****

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

*** **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process****

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

*** **Keep old patches up to date****

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

*

****Write some documentation****

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``.

.. note::

The ``reports page`` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. `_reports` page: <https://code.djangoproject.com/wiki/Reports>

*** **Sign the Contributor License Agreement****

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.. `_CLA`: <https://www.djangoproject.com/foundation/cla/>

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.. `_unreviewed ticket`: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

Guidelines

=====

As

a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

*** **Pick a subject area that you care about, that you are familiar with, or that you want to learn about****

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

*** **Analyze tickets' context and history****

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who **hasn't** spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support

required to get into Django.

*** **Start small****

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

*** **If you're going to engage in a big task, make sure that your idea has support first****

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

*** **Be bold! Leave feedback!****

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without ****you****!

*** **Err on the side of caution when marking things Ready For Check-in****

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

*** **Wait for feedback, and respond to feedback that you receive****

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

*** **Be rigorous****

When we say "pep:8", and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

*** **Be patient****

It's not always easy for your ticket or your patch to be reviewed quickly. This isn't personal. There are a lot of tickets and pull requests to get through.

Keeping your patch up to date is important. Review the ticket on Trac to ensure that the **Needs tests**, **Needs documentation**, and **Patch needs improvement** flags are unchecked once you've addressed all review comments.

Remember that Django has an eight-month release cycle, so there's plenty of time for your patch to be reviewed.

Finally, a well-timed reminder can help. See [:ref:`contributing code FAQ <new-contributors-faq>`](#) for ideas here.

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1.202 selenium 4.9.1

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1.203 @splunk/react-ui 4.18.0

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1.204 sh 1.14.0

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1.207 django 4.2.11

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Advice for new contributors

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New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Get up and running!

If you are new to contributing to Django, the :doc:`intro/contributing` tutorial will give you an introduction to the tools and the workflow.

This page contains more general advice on ways you can contribute to Django, and how to approach that.

If you are looking for a reference on the details of making code contributions, see the :doc:`internals/contributing/writing-code/index` documentation.

First steps

=====

Start with these steps to discover Django's development process.

* **Triage tickets**

If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug

and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

*** **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process****

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

*** **Keep old patches up to date****

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

*

****Write some documentation****

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: <https://code.djangoproject.com/wiki/Reports>

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Guidelines

=====

As

a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

*** **Pick a subject area that you care about, that you are familiar with, or that you want to learn about****

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

*** **Analyze tickets' context and history****

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who ***hasn't*** spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

*** **Start small****

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

*** **If you're going to engage in a big task, make sure that your idea has support first****

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

*** **Be bold! Leave feedback!****

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without ****you****!

*** **Err on the side of caution when marking things Ready For Check-in****

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

*** **Wait for feedback, and respond to feedback that you receive****

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

*** **Be rigorous****

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

*** **Be patient****

It's not always easy for your ticket or your patch to be reviewed quickly. This isn't personal. There are a lot of tickets and pull requests to get through.

Keeping your patch up to date is important. Review the ticket on Trac to ensure that the **Needs tests**, **Needs documentation**, and **Patch needs improvement** flags are unchecked once you've addressed all review comments.

Remember that Django has an eight-month release cycle, so there's plenty of time for your patch to be reviewed.

Finally, a well-timed reminder can help. See [:ref:`contributing code FAQ <new-contributors-faq>`](#) for ideas here.

.. _easy pickings: <https://code.djangoproject.com/query?status=!closed&easy=1>
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1.208 bzt 1.16.21

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1.216 robotframework-pabot 2.14.0

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