

CPAR安装步骤

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简介

本文档介绍安装Cisco Prime Access Registrar(CPAR)的过程。

此安装程序适用于使用NEWTON版本的Openstack环境，其中ESC不管理CPAR，并且CPAR直接安装在Openstack上部署的VM上。

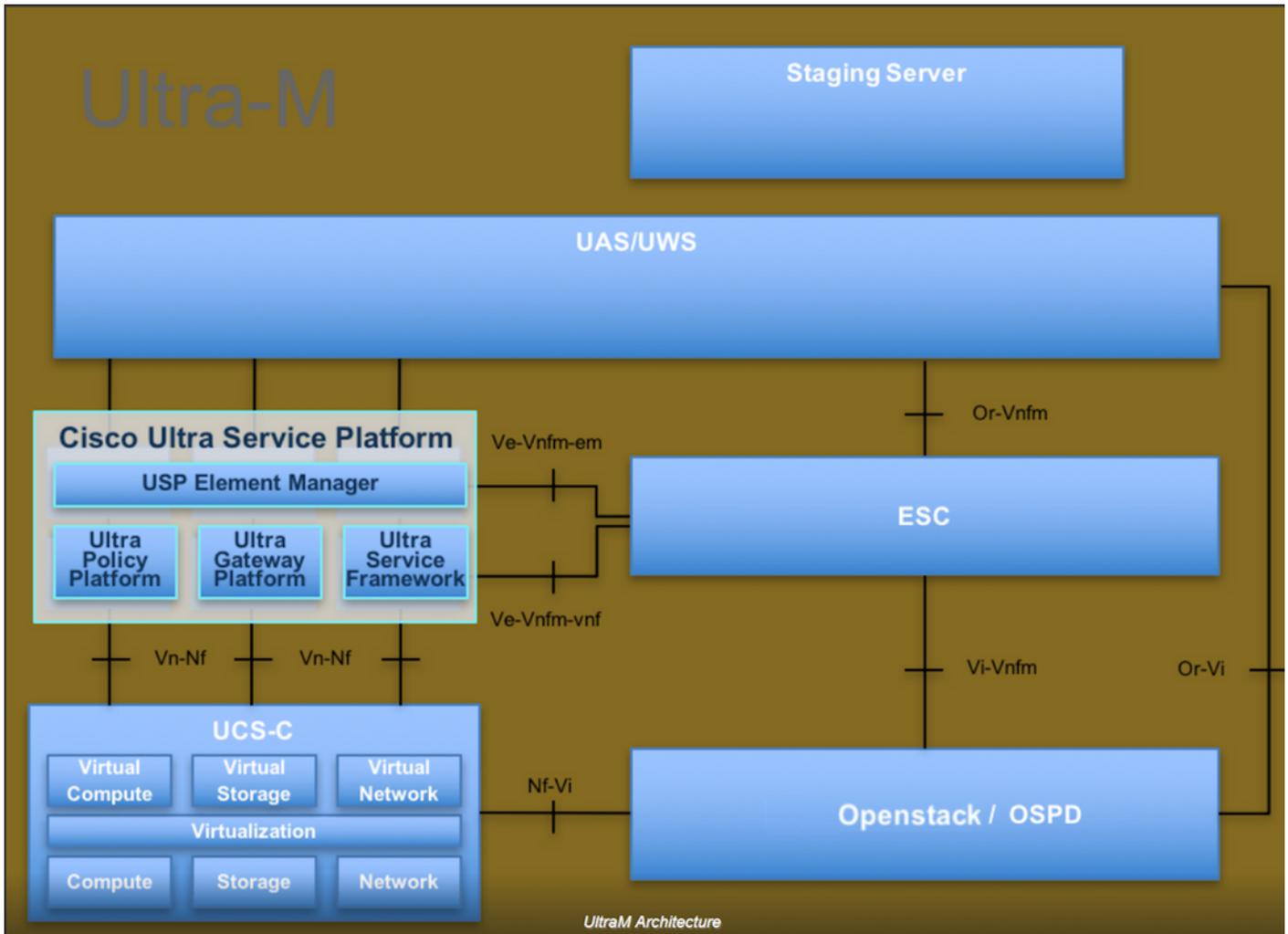
背景信息

Ultra-M是经过预先打包和验证的虚拟化移动数据包核心解决方案，旨在简化VNF的部署。

OpenStack是适用于Ultra-M的虚拟化基础设施管理器(VIM)，由以下节点类型组成：

- 计算
- 对象存储磁盘 — 计算 (OSD — 计算)
- 控制器
- OpenStack平台 — 导向器(OSPD)

Ultra-M的高级架构和涉及的组件如下图所示：



本文档面向熟悉Cisco Ultra-M平台的思科人员，详细介绍在OpenStack和Redhat操作系统上需要执行的步骤。

 注：为定义本文档中的过程，需要考虑Ultra M 5.1.x版本。

安装流程

在开始安装之前，请确保已满足这些要求。

1. CPAR软件映像复制/tmp/ CSCOar-x.x.x.x.-lnx26_64-install.sh
2. CPAR许可证复制在/tmp/xxxxxx.lic中
3. Java 64位安装1.7.*或1.8.* 64位版本。
4. 更新主机名，/etc/hosts中应有相同的主机名
5. 该列表包括安装CPAR GUI所需的RPM:

Required 64-bit rpms for Relevant RHEL OS Versions

rpm	RHEL OS Version 6.6	RHEL OS Version 7.0	RHEL OS Version 7.2
glibc	Yes	Yes	Yes
gdome2	Yes	Yes	Yes
glib	Yes	Yes	Yes
glib2	Yes	Yes	Yes
libgcc	Yes	Yes	Yes
libstdc++	Yes	Yes	Yes
libxml2	Yes	Yes	Yes
ncurses	No	No	No
nspr	Yes	Yes	Yes
nss	No	No	No
zlib	Yes	Yes	Yes
nss-softokn-freebl	Yes	Yes	Yes
ncurses-libs	Yes	Yes	Yes
nss-util	Yes	Yes	Yes
gamin	Yes	Yes	Yes
libselinux	Yes	Yes	Yes

以root用户身份登录Prime Access Registrar工作站。

步骤1:执行命令cd /tmp时，导航到/tmp目录。

第二步：使用命令chmod 775 ./CSCOAr-x.x.x.x.-lnx26_64-install.sh更改./CSCOAr-x.x.x.x.-lnx26_64-install.sh文件的权限。

第三步：使用命令./CSCOAr-x.x.x.x.-lnx26_64-install.sh启动安装脚本。

```

[cloud-user@rhel-instance tmp]$ sudo ./CSCOar-7.2.2.2-lnx26_64-install.sh
./CSCOar-7.2.2.2-lnx26_64-install.sh: line 343: [: 148: unary operator expected
Name       : CSCOar           Relocations: /opt/CSCOar
Version    : 7.2.2.2         Vendor: Cisco Systems, Inc.
Release    : 1491821640     Build Date: Mon Apr 10 04:02:17 2017
Install Date: (not installed) Build Host: nm-rtp-view4
Signature   : (none)
build_tag: [Linux-2.6.18, official]

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Where do you want to install <CSCOar>? [/opt/CSCOar] [?,q]

```

第四步：对于Where do you want to install <CSCOar>问题？[/opt/CSCOar] [?,q]，按enter选择默认位置(/opt/CSCOar/)。

第五步：在FLEXlm许可证文件位于何处？/tmp/xxxxx.lic [] [?,q]提供许可证的位置，根据前提条件，许可证应为/tmp。

```

Cisco Prime Access Registrar requires FLEXlm license file to operate.
A list of space delimited license files or directories can be supplied
as input; license files must have the extension ".lic".

```

```

Existing license files found. To use the existing license files,
just press ENTER to the prompt below.

```

```

Note: To enable other features within this package, additional FLEXlm
license files can be specified below.

```

```

Where are the FLEXlm license files located? [] [?,q]

```

第六步：指定是否要启用智能许可。如果要使用传统许可方法，请继续执行下一步。

```

是否要启用智能许可？[y/n] [n]: [y, n, ?,q] y

```

步骤 7.有关J2RE的安装位置的问题？[] [?,q]输入安装Java的目录。例如：/usr/java/jre1.8.0_144/。

 注意：如果未提供JRE路径，或者路径为空或不受支持，则安装过程将退出。Prime Access Registrar需要JRE 1.7.x或JRE 1.8.x 64位版本。

Cisco Prime Access Registrar provides a Web GUI. It requires J2RE version 1.7.* or 1.8.* to be installed on the server.

If you already have a compatible version of J2RE installed, please enter the directory where it is installed. If you do not, the compatible J2RE version can be downloaded from:

<http://java.sun.com/>

Where is the J2RE installed? [] [?,q]

步骤 8按Enter并跳过Oracle输入。因为此部署中不使用Oracle。

If you are not using ORACLE, press Enter/Return to skip this step. ORACLE installation directory is required for OCI configuration. ORACLE_HOME variable will be set in /etc/init.d/arserver script

Where is ORACLE installed? [] [?,q]

步骤 9按Enter键并跳过SIGTRAN-M3UA功能步骤。此部署不需要此功能。

Do you want to install SIGTRAN-M3UA functionality now? [n]: [y,n,?,q]

SIGTRAN-M3UA related options are disabled. You can enable the options at any time by running the following command

```
/opt/CSC0ar/bin/add-sigtran-configuration
```

Cisco Prime Access Registrar can be run as non-root user also. This requires the libcap-2.16-5.5 rpm to be installed. If the kernel version is 2.6.24 or later, libcap is already available Please ensure that you have an existing non-root user created prior to this.

If you require to run CPAR as non-root user, and the user does not exist, please choose to exit installation. Once the non-root user is created, you may install CPAR.

步骤 10对于问题“是否希望CPAR作为非根用户运行？”[n]: [y , n , ?,q]按Enter键使用默认答案n。

Do you want CPAR to be run as non-root user? [n]: [y,n,?,q]

If you want to learn about Cisco Prime Access Registrar by following the examples in the Installation and Configuration Guide, you need to populate the database with the example configuration.

NOTE: If you are using DIRECTOR/DIRECTOR NEXT GEN Licenses, please do not try installing Example configuration, Give the option for Example configuration as "n"

步骤 11对于问题，是否要立即安装示例配置？[n]: [y, n, ?,q]按Enter键使用默认答案n。

Do you want to install the example configuration now? [n]: [y,n,?,q]

You can add the example configuration at any time by running the command:

```
/opt/CSCOar/bin/aregcmd -f /opt/CSCOar/examples/cli/add-example-configuration.rc
```

步骤 12CPAR安装开始。

```
unpack the rpm file done
Preparing... ##### [100%]
1:CSCOarui-add ##### [100%]
# setting up the web server.....
# configuring the web server.....
# extracting the web application.....
# extracting the rest application.....
Preparing... ##### [100%]
1:CSCOar ##### [100%]
relink cisco prime arserver
JAVA_ROOT /opt/jdk1.7.0_75
JAVA_HOME /opt/jdk1.7.0_75
# setting ORACLE_HOME and JAVA_HOME variables in arserver
ORACLE_HOME
JAVA_HOME /opt/jdk1.7.0_75
set JAVA_HOME
# removing old session information
# flushing old replication archive
# creating initial configuration database
Rollforward recovery using "/opt/CSCOar/data/db/vista.tjf" started Mon Sep 19 07:21:38 2016
Rollforward recovery using "/opt/CSCOar/data/db/vista.tjf" finished Mon Sep 19 07:21:38 2016

ln: creating symbolic link `/opt/CSCOar/logs/WebGUI.log': File exists
# add-example-config y
calling gen-tomcat
using OPENSSL=/cisco-ar/.system/openssl
Making sure the cert directory exists: /cisco-ar/certs/tomcat
Calling gen-ss-cert to create the cert
/cisco-ar/certs/tomcat/server-cert.pem exists, no action taken.
WARNING: can't open config file: /usr/local/ssl/openssl.cnf
Tomcat private RSA key now resides in /cisco-ar/certs/tomcat/server-key.pem
Starting Cisco Prime Access Registrar Server Agent...completed.
```

步骤 13等待CPAR安装过程完成，验证运行的所有CPAR过程。导航到目录/opt/CSCOar/bin并执行命令。/arstatus。输出如图所示。

```
[root@dalaaa06 bin]# ./arstatus
Cisco Prime AR RADIUS server running      (pid: 1192)
Cisco Prime AR Server Agent running       (pid: 1174)
Cisco Prime AR MCD lock manager running   (pid: 1177)
Cisco Prime AR MCD server running         (pid: 1191)
Cisco Prime AR GUI running                (pid: 1194)
SNMP Master Agent running                 (pid: 1193)
```

步骤 14 登录CPAR应用CLI。

转至目录/opt/CSCOar/bin并执行。/aregcmd。

使用管理员用户帐户“admin”进行连接，系统将提示输入新密码。

```
[root@ar-lnx-vm029 opt]# cd /opt/CSCOar/bin
[root@ar-lnx-vm029 bin]# ./aregcmd -s
Cisco Prime Access Registrar 7.3.0.0 Configuration Utility
Copyright (C) 1995-2016 by Cisco Systems, Inc. All rights reserved.
Logging in to localhost
Enter a new passphrase:
Warning: Passphrase length should be atleast 8 characters
Confirm new passphrase:
```

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