



Preface

Revised: December 20, 2018

This preface contains the following sections:

- [Purpose, page 1](#)
- [Audience, page 2](#)
- [Document Organization, page 2](#)
- [Document Conventions, page 3](#)
- [Related Documentation, page 4](#)
- [Obtaining Documentation and Submitting a Service Request, page 6](#)

Purpose

This installation guide provides the following types of information about Cisco ISE, Release 1.2:

- Prerequisites for installation
- Procedures for installing the Cisco ISE software on a supported Cisco ISE appliance
- Procedures for installing the Cisco ISE software on a supported VMware virtual machine
- Procedures for installing the Cisco ISE software on a supported Cisco Network Admission Control (NAC) appliance or Cisco Secure Access Control System (ACS) appliance

Cisco ISE, Release 1.2 offers a choice of two appliance platforms. Your choice depends on the size of your deployment:

- Small network—SNS 3415
- Large network—SNS 3495

You can upgrade an existing Cisco ISE 3300 series appliance to Release 1.2.

For VMware-based installations, you must configure the VMware environment to meet minimum system requirements and then install the Cisco ISE, Release 1.2, software. See [Chapter 4, “Installing Release 1.2 Software on a VMware Virtual Machine”](#) for more information.

The supported VMware versions include the following:

- VMware Elastic Sky X (ESX), Version 4.0, 4.0.1, and 4.1
- VMware ESXi, Version 4.x and 5.x
- VMware vSphere Client 4.x and 5.x

Audience

This guide is designed for network administrators, system integrators, or network deployment personnel who install and configure the Cisco ISE software on Cisco SNS-3400 Series appliances or on VMware servers. As a prerequisite to using this hardware installation guide, you should be familiar with networking equipment and cabling and have a basic knowledge of electronic circuitry, wiring practices, and equipment rack installations.



Warning

Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 1030

Document Organization

Table 1 Cisco ISE Hardware Installation Guide Organization

Chapter/Appendix and Title	Description
Chapter 1, “Network Deployments in Cisco ISE”	Provides an overview of the Cisco SNS-3400 Series appliance deployments and their components. Read this chapter before planning a new Cisco ISE deployment.
Chapter 2, “Cisco SNS-3400 Series Appliances”	Provides an overview of the Cisco SNS-3400 Series hardware.
Chapter 3, “Installing and Configuring a Cisco SNS-3400 Series Appliance”	Describes how to perform an initial installation of Cisco ISE software on Cisco SNS-3400 Series hardware.
Chapter 4, “Installing Release 1.2 Software on a VMware Virtual Machine”	Describes how to install Cisco ISE software on VMware ESX or ESXi and vSphere virtual machines.
Chapter 5, “Installing Release 1.2 Software on Cisco ISE 3300 Series, Cisco NAC, and Cisco Secure ACS Appliances”	Describes how to install Cisco ISE, Release 1.2 software on existing ISE 3300 series, or legacy NAC and ACS appliances.
Chapter 6, “Managing Administrator Accounts”	Describes the two types of administrator accounts in Cisco ISE, their privileges, and how to create them.
Chapter 7, “Performing Post-Installation Tasks”	Provides information about installing a Cisco ISE license and lists the configuration tasks that you need to perform following installation.
Appendix A, “Installing the Cisco SNS-3400 Series Appliance in a Rack”	Describes the necessary safety instructions, site requirements, and tasks that you need to perform before installing the Cisco SNS-3400 Series hardware. Also, provides instructions on rack-mounting a Cisco SNS-3400 Series appliance, connecting all cables, powering up the appliance, and replacing the server components.
Appendix B, “Cisco SNS-3400 Series Server Specifications”	Provides physical, environmental, and power specifications for maintaining Cisco SNS-3400 Series appliance following installation.
Appendix C, “Cisco SNS-3400 Series Appliance Ports Reference”	Provides a reference list of ports that are used by Cisco SNS-3400 Series appliance services, applications, and devices.

Table 1 Cisco ISE Hardware Installation Guide Organization (continued)

Chapter/Appendix and Title	Description
Appendix D, “Cisco ISE Licenses”	Describes the different types of licenses available in Cisco ISE and how to install them.
Appendix E, “Certificate Management in Cisco ISE”	Describes local (including wildcard certificates) and CA certificates and how to install them.

Installation Reference

Table 2 Cisco ISE 1.2 Installation Scenarios

Installation Process	Reference
Introducing the Cisco ISE appliance and predeployment requirements	Chapter 2, “Cisco SNS-3400 Series Appliances” Appendix A, “Installing the Cisco SNS-3400 Series Appliance in a Rack”
Configuring the Cisco ISE software	Chapter 3, “Installing and Configuring a Cisco SNS-3400 Series Appliance”
Installing the initial Cisco ISE software on the VMware server	Chapter 4, “Installing Release 1.2 Software on a VMware Virtual Machine”
Installing Cisco ISE software on a Cisco NAC Appliance or on a Cisco Secure ACS Appliance	Chapter 5, “Installing Release 1.2 Software on Cisco ISE 3300 Series, Cisco NAC, and Cisco Secure ACS Appliances”
Performing post installation tasks after logging in to the Cisco ISE web interface	Chapter 7, “Performing Post-Installation Tasks”

Document Conventions

This guide uses the following conventions to convey instructions and information.

Convention	Item
bold	Commands, keywords, and user-entered text as well as tab and button names in procedural text appear in bold font.
<i>italic</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic</i> font.
<code>courier</code>	Terminal sessions and information the system displays is in <code>courier</code> (monospace, fixed-width) font.
<>	In examples that do not allow italics, such as ASCII outputs, arguments for which you must supply a value appear in <angle> brackets.

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material that is not discussed in the manual.

**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

**Warning****IMPORTANT SAFETY INSTRUCTIONS**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS**Tip**

Means *the following information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information, similar to a Timesaver.

Related Documentation

Release-Specific Documents

**Note**

General product information for Cisco ISE is available at <http://www.cisco.com/go/ise>. End-user documentation is available on Cisco.com at http://www.cisco.com/en/US/products/ps11640/tsd_products_support_series_home.html.

Table 3 *Product Documentation for Cisco Identity Services Engine*

Document Title	Location
<i>Release Notes for the Cisco Identity Services Engine, Release 1.2</i>	http://www.cisco.com/en/US/products/ps11640/prod_release_notes_list.html
<i>Cisco Identity Services Engine Network Component Compatibility, Release 1.2</i>	http://www.cisco.com/en/US/products/ps11640/products_device_support_tables_list.html
<i>Cisco Identity Services Engine User Guide, Release 1.2</i>	http://www.cisco.com/en/US/products/ps11640/products_user_guide_list.html
<i>Cisco Identity Services Engine Hardware Installation Guide, Release 1.2</i>	http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html

Table 3 *Product Documentation for Cisco Identity Services Engine (continued)*

Document Title	Location
<i>Cisco Identity Services Engine Upgrade Guide, Release 1.2.</i>	http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html
<i>Cisco Identity Services Engine, Release 1.2 Migration Tool Guide.</i>	http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html
<i>Cisco Identity Services Engine Sponsor Portal User Guide, Release 1.2.</i>	http://www.cisco.com/en/US/products/ps11640/products_user_guide_list.html
<i>Cisco Identity Services Engine CLI Reference Guide, Release 1.2.</i>	http://www.cisco.com/en/US/products/ps11640/prod_command_reference_list.html
<i>Cisco Identity Services Engine API Reference Guide, Release 1.2.</i>	http://www.cisco.com/en/US/products/ps11640/prod_command_reference_list.html
<i>Cisco Identity Services Engine Troubleshooting Guide, Release 1.2.</i>	http://www.cisco.com/en/US/products/ps11640/prod_troubleshooting_guides_list.html
<i>Regulatory Compliance and Safety Information for Cisco Identity Services Engine, Cisco 1121 Secure Access Control System, Cisco NAC Appliance, Cisco NAC Guest Server, and Cisco NAC Profiler</i>	http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html
<i>Cisco Identity Services Engine In-Box Documentation and China RoHS Pointer Card</i>	http://www.cisco.com/en/US/products/ps11640/products_documentation_roadmaps_list.html
<i>My Devices Portal FAQs, Release 1.2</i>	http://www.cisco.com/en/US/products/ps11640/products_user_guide_list.html

Platform-Specific Documents

- Cisco ISE
http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html
- Cisco NAC Appliance
http://www.cisco.com/en/US/products/ps6128/tsd_products_support_series_home.html
- Cisco NAC Guest Server
http://www.cisco.com/en/US/products/ps10160/tsd_products_support_series_home.html
- Cisco NAC Profiler
http://www.cisco.com/en/US/products/ps8464/tsd_products_support_series_home.html
- Cisco Secure ACS
http://www.cisco.com/en/US/products/ps9911/tsd_products_support_series_home.html
- Cisco UCS C-Series Servers
http://www.cisco.com/en/US/docs/unified_computing/ucs/overview/guide/UCS_rack_roadmap.html

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).

- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.