Cisco Nexus 3550-T NX-OS Software Installation and Upgrade Guide, Release 10.1(x)

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Preface

This preface includes the following sections:

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Audience

This publication is for network administrators who install, configure, and maintain Cisco Nexus switches.

Note The documentation set for this product strives to use bias-free language. For the purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Document Conventions

Command descriptions use the following conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.
Italic	Italic text indicates arguments for which you supply the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x | y]	Square brackets enclosing keywords or arguments that are separated by a vertical bar indicate an optional choice.

Convention	Description
{x | y}	Braces enclosing keywords or arguments that are separated by a vertical bar indicate a required choice.
[x {y | z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
`variable`	Indicates a variable for which you supply values, in context where italics cannot be used.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string includes the quotation marks.

Examples use the following conventions:

Convention	Description
`screen font`	Terminal sessions and information the switch displays are in screen font.
`boldface screen font`	Information that you must enter is in boldface screen font.
italic screen font	Arguments for which you supply values are in italic screen font.
< >	Nonprinting characters, such as passwords, are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

Related Documentation for Cisco Nexus 3550-T Triton Switches

The entire Cisco Nexus 3550-T Triton switch documentation set is available at the following URL:

http://www.cisco.com/en/US/products/ps13386/tsd_products_support_series_home.html

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to nexus9k-docfeedback@cisco.com. We appreciate your feedback.

Communications, Services, and Additional Information

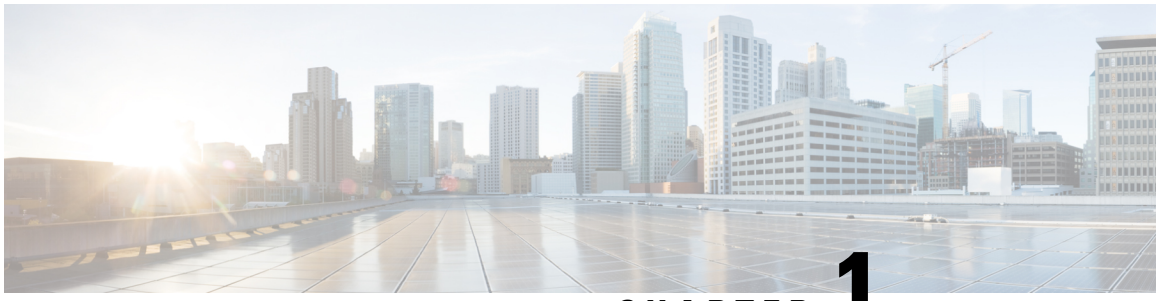
- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business impact you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.

- 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.

Preface



CHAPTER 1

Migrating Cisco Nexus 3550-T ExaOS to NX-OS Software

This chapter provides information on migrating *Cisco Nexus 3550-T* from ExaOS to NX-OS Software.

• Migrating Cisco Nexus 3550-T ExaOS to NX-OS Software, on page 1

Migrating Cisco Nexus 3550-T ExaOS to NX-OS Software

The Cisco Nexus 3550-T migration from ExaOS to NX-OS software workflow involves three steps -

- Configuration Migration
- NX-OS Installation
- Configuration Restoration

Configuration Migration

The following procedure is used for Cisco Nexus 3550-T EXaOS configuration migration to the NX-OS software:

1. Save existing config on ExaOS switch (Copy r s).
2. Copy the **convert_exaos_to_nxos_cli_v1.py** script to the switch. (`/mnt/persist/config directory`)
3. Enter bash and run **convert_exaos_to_nxos_cli_v1.py** script with input as the startup config file.
   a. `cd /mnt/persist/config`
   b. **python3 convert_exaos_to_nxos_cli_v1.py startup.json**
   c. Generated nxos config file – nxos_startup.cfg
      1. Copy the generated nxos_startup.cfg out of the switch (**scp** to a remote server).
      2. If POAP is enabled, copy the nxos_startup.cfg to the central server.

NX-OS Installation

The following procedure is used for Cisco Nexus 3550-T NX-OS software installation:

1. Copy NX-OS installer image to switch.

   Enter bash and copy nxos installer image (for eg. **nxos-wb-installer.10.1.2t.bin**) to `/mnt/persist` folder and rename it to **onie-installer**.

   onie-installer is now the NX-OS installer file.

2. 2. Set next boot to *ONIE* and enable *ONIE boot* in install mode NXOS installer and reboot.

   - **Option # 1 : Run the following commands:**
     - **/mnt/onie-boot/onie/tools/bin/onie-local-mode -s**
     - **/mnt/onie-boot/onie/tools/bin/onie-boot-mode -o install**
     - **grub-reboot ONIE**
     - Reboot.
   - **Option # 2 (Grub menu):**
     - Reboot (from ExaOS).
     - Press Esc+Delete while the box is coming up to land into the GRUB menu
     - Choose *ONIE*.
   - **Option # 3 (EFI Shell):**
     - Reboot (from ExaOS).
     - Press Esc+Delete while the box is coming up to land into the EFI menu.
     - **#fs0:**
     - **#cd EFI**
     - **#cd onie**
     - **#grubx64.efi**

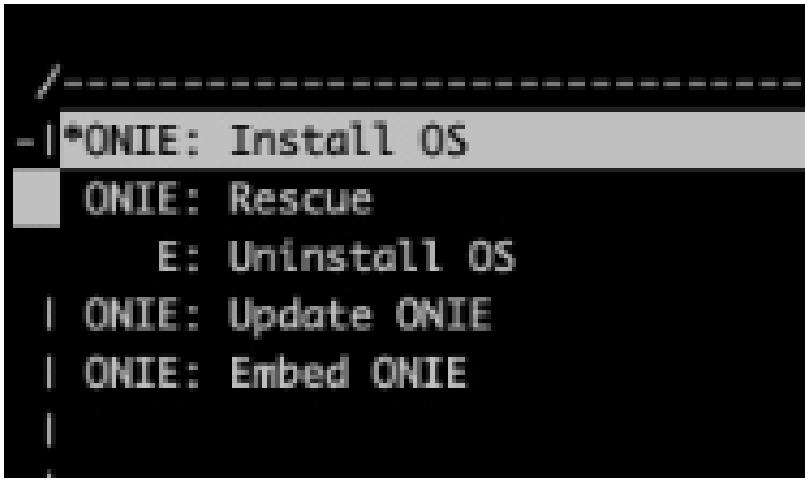
3. Boot to *ONIE* .

   If using **Option# 1** or **Option# 3**, the switch should automatically boot into ONIE.

   a. The Install OS option should be selected in the next Menu,

If not, select the Install OS option.



b. Auto NX-OS installer image extraction and installation:

When ONIE boots in Install OS (installer) mode, it should auto discover the installer file (onie-installer) from location:

`/dev/nvme0n1p3/onie-installer` and proceed to install NX-OS. (No manual intervention is needed at this point)

c. Installation should take a few minutes to complete and the switch should reboot to NX-OS upon successful installation. Onie-installer script will perform a BIOS Upgrade if needed before the reboot at this point.

4. Switch boots up with NXOS. If POAP is disabled, enter the initial config (credentials) and proceed to nxos prompt. Else, the saved config on central POAP server is restored.

Configuration Restoration

The following procedure is used for Cisco Nexus 3550-T NX-OS configuration restoration after the NX-OS software installation:

Restore switch config (if POAP disabled)

1. Configure management interface

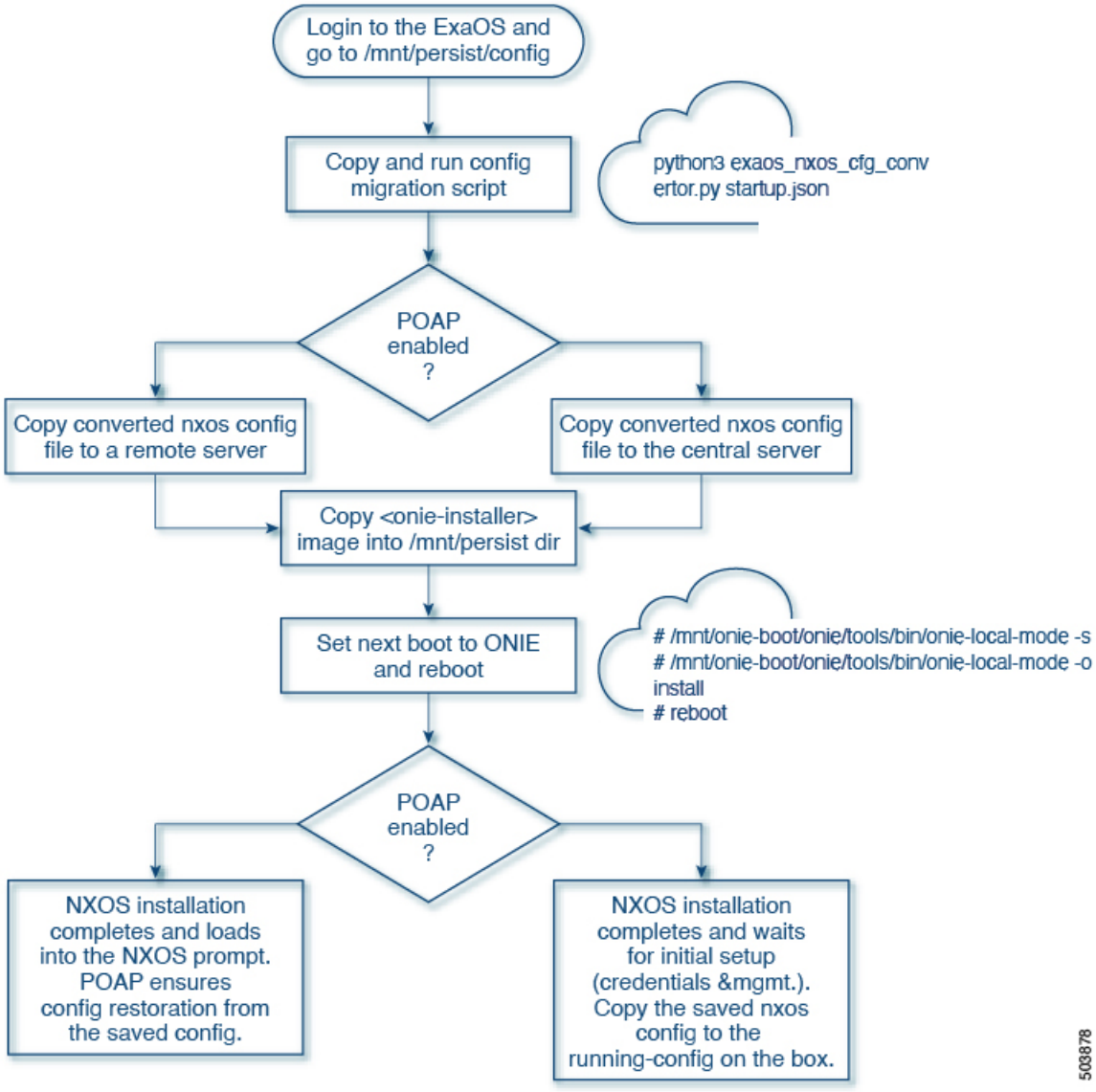
2. Copy the saved nxos_startup.cfg file on to bootflash:

3. Copy bootflash:nxos_startup.cfg running-config

4. Copy r s

Migration Workflow

The following flowchart illustrates the Cisco Nexus 3550-T migration from Exa-OS to NX-OS software workflow -



Migration Workflow UT Logs