

# How to Install the Authorization Code on a Device

## Contents

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### [Introduction](#)

### [Prerequisites](#)

#### [Requirements](#)

#### [Components Used](#)

### [Installing the Authorization Code on a Device](#)

### [Verify](#)

#### [Option 1:](#)

#### [Option 2:](#)

### [Troubleshooting](#)

### [Related Information](#)

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## Introduction

This article describes the process of installing the authorization code on a device.

## Prerequisites

### Requirements

Before you start, ensure that you:

- Generated the authorization code in Cisco Smart Software Manager (CSSM) (To generate the authorization code in CSSM, refer to [How to Reserve Licenses \(SLR\)](#)).
- Placed the file with the authorization code to the local file system of the device or on an FTP server.

### Components Used

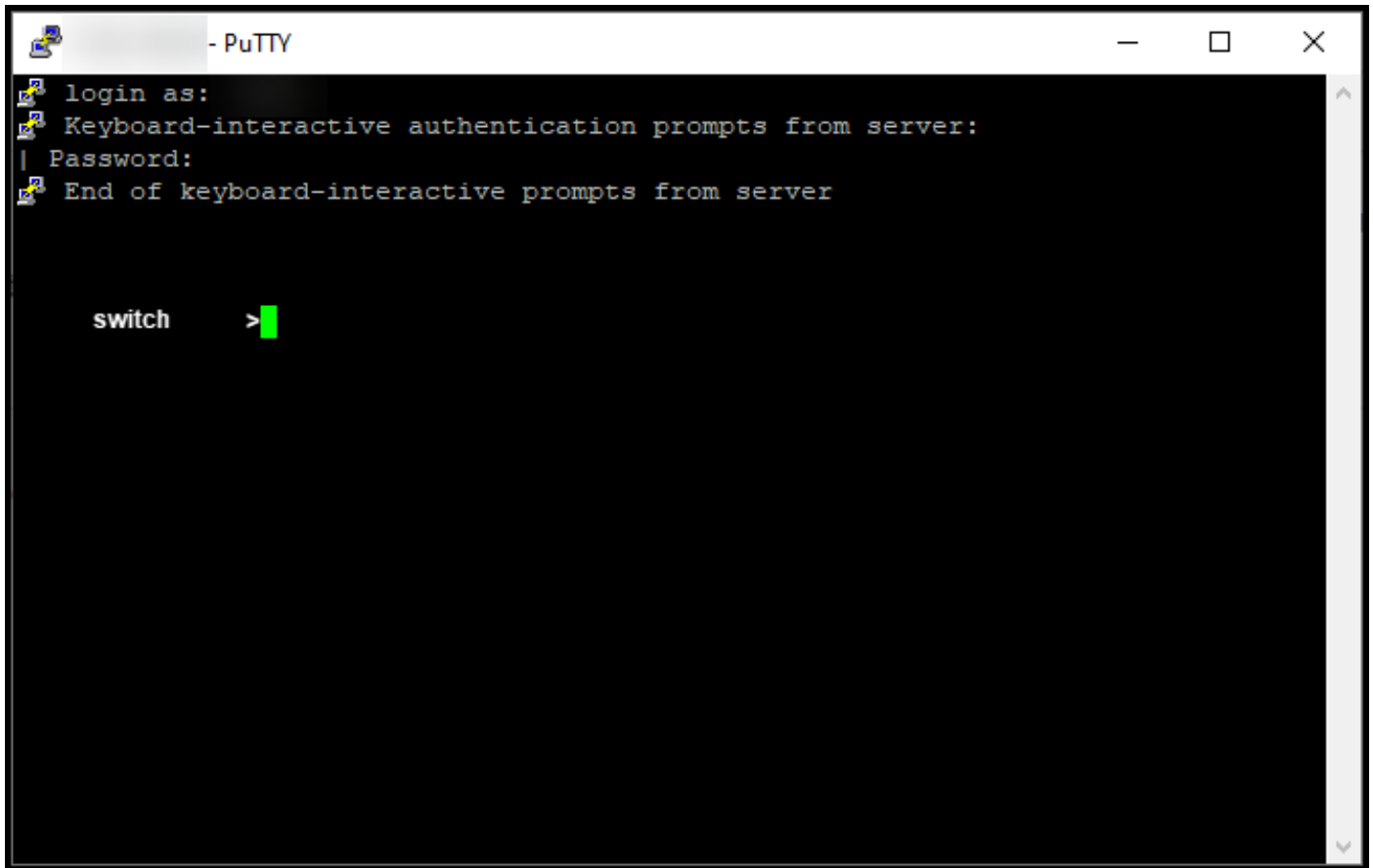
The information in this document was created from Catalyst 9300 with IOS version 16.12.05b in a specific lab environment. If your network is live, ensure that you understand the potential impact of any command.

## Installing the Authorization Code on a Device

### Step 1:

Log in to the internetwork operating system (IOS) of the device with the login and password by using one of the clients or console.

**Step result:** You enter the user EXEC mode.



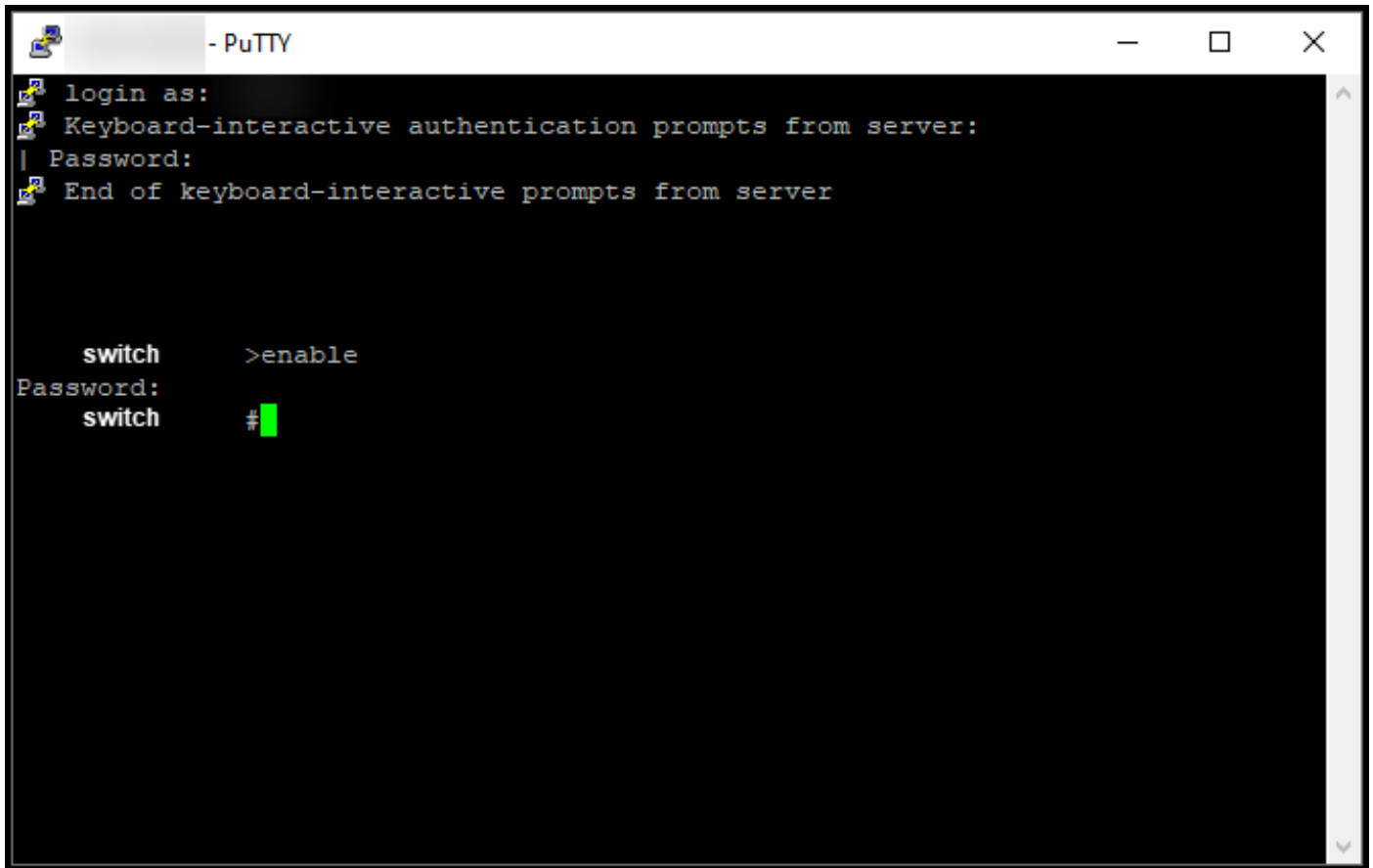
```
login as:
Keyboard-interactive authentication prompts from server:
| Password:
End of keyboard-interactive prompts from server

switch >
```

**Step 2:**

Enter the **enable** command in the command line, and then type the password to access the privileged EXEC mode.

**Step result:** You enter the privileged EXEC mode.



```
login as:
Keyboard-interactive authentication prompts from server:
| Password:
| End of keyboard-interactive prompts from server


switch      >enable
Password:
switch      #
```

### Step 3:

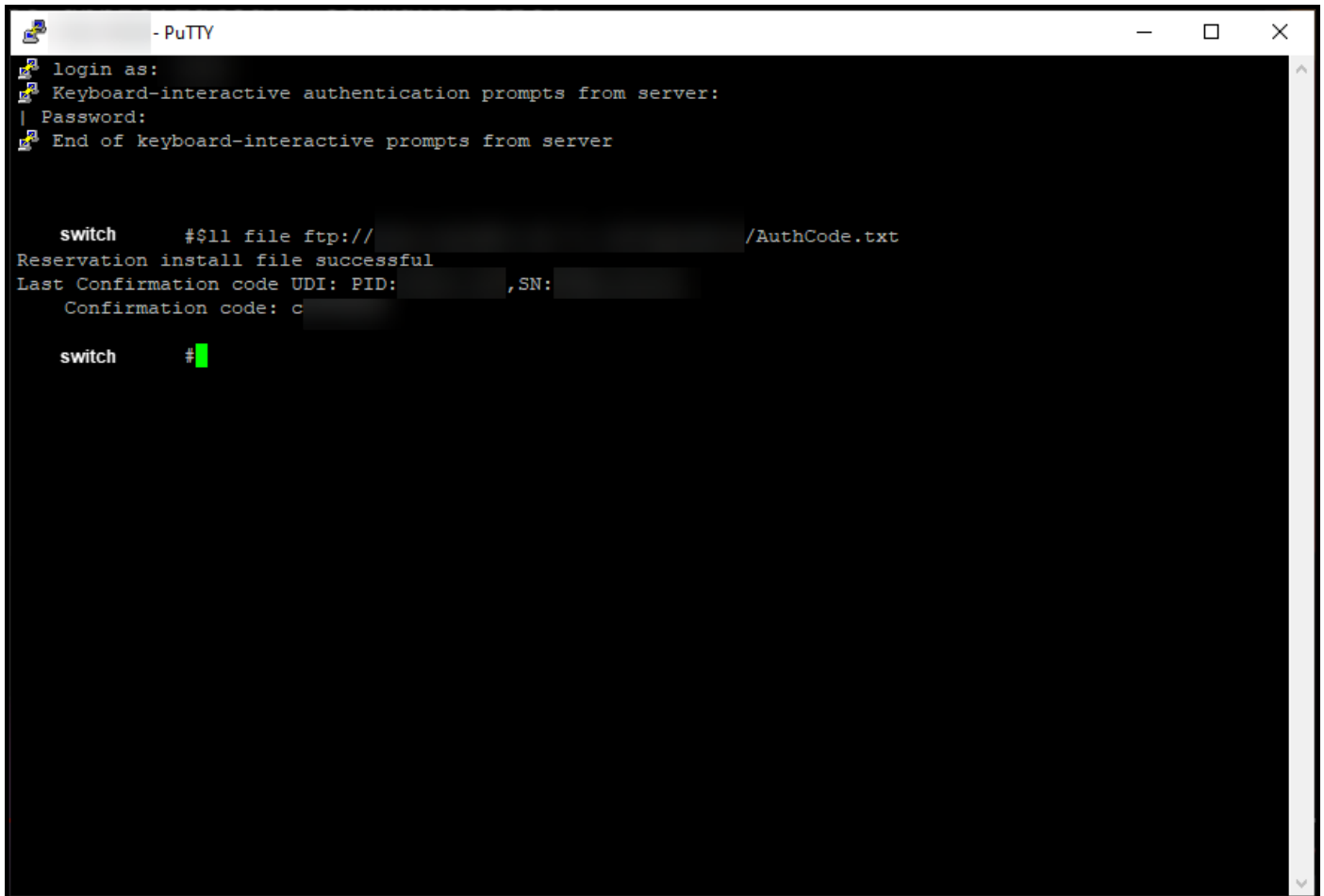
In the privileged EXEC mode, enter the **license smart reservation install file {flash:filename | tftp://filepath}** command.

**Step result:** The system displays the **reservation install file successful** output. Now the product instance of your device does not synchronize with the CSSM, and so the product instance does not share the license usage information with CSSM either.

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 **Note:** If the system displays the **reservation install file failed** output, verify that you placed the file with the authorization code to the local file system of the device or that you provided a network-accessible path for the device to download the file with the authorization code.

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```
login as:
Keyboard-interactive authentication prompts from server:
| Password:
| End of keyboard-interactive prompts from server

switch      # $ll file ftp://          /AuthCode.txt
Reservation install file successful
Last Confirmation code UDI: PID:      , SN:
Confirmation code: c

switch      #
```

## Verify

Use this section to confirm that you properly installed the authorization code on a device.

### Option 1:

**Verification Step:** In the privileged EXEC mode, enter the **show license status** command.

**Step result:** The system displays the status of the **License Authorization** as ***AUTHORIZED - RESERVED*** [date].

```
switch #show license status
Smart Licensing is ENABLED

Utility:
  Status: DISABLED
License Reservation is ENABLED

Data Privacy:
  Sending Hostname: yes
  Callhome hostname privacy: DISABLED
  Smart Licensing hostname privacy: DISABLED
  Version privacy: DISABLED

Transport:
  Type: Callhome

Registration:
  Status: REGISTERED - SPECIFIC LICENSE RESERVATION
  Export-Controlled Functionality: NOT ALLOWED
  Initial Registration: SUCCEEDED on [REDACTED]

License Authorization:
  Status: AUTHORIZED - RESERVED on [REDACTED]

Export Authorization Key:
  Features Authorized:
  <none>

switch #
```

## Option 2:

**Verification Step:** In the privileged EXEC mode, enter the **show license summary** command.

**Step result:** The system displays the status of the **License Authorization** as **AUTHORIZED - RESERVED**.

```
- PuTTY
| Password:
End of keyboard-interactive prompts from server

switch #show license summary
Smart Licensing is ENABLED
License Reservation is ENABLED

Registration:
  Status: REGISTERED - SPECIFIC LICENSE RESERVATION
  Export-Controlled Functionality: NOT ALLOWED

License Authorization:
  Status: AUTHORIZED - RESERVED

License Usage:
  License                               Entitlement tag                Count Status
  -----
  C9300 24P Network Ad... (C9300-24 Network Advan...)    1 AUTHORIZED
  C9300 24P DNA Advantage (C9300-24 DNA Advantage)        1 AUTHORIZED

switch #
```

## Troubleshooting

If you experience an issue during the process of installing the authorization code on a device, open a case in [Support Case Manager \(SCM\)](#).

## Related Information

[How to Enable Factory Preinstalled SLR on a Smart Account](#)

[How to Identify That the Smart Account Is Enabled for SLR](#)

[How to Identify Products That Support SLR](#)

[How to Obtain the Reservation Request Code](#)

[How to Reserve Licenses \(SLR\)](#)

[How to Update the License Reservation \(SLR\)](#)

[How to Transfer a Product Instance \(SLR\)](#)

[How to Transfer Licenses Between Virtual Accounts \(SLR\)](#)

[How to Rehost Licenses from a Failed Product \(SLR\)](#)

[How to Obtain the Reservation Return Code](#)

[How to Remove a Product Instance \(SLR\)](#)