

# Configure Localized ISE Installation

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## Introduction

This document describes how to configure the Localized Identity Services Engine (ISE) Installation to reinstall or upgrade ISE.

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco ISE 3.X
- Virtual Machines
- Secure Network Server (SNS) Appliances

### Components Used

- Identity Service Engine (ISE) 3.2 Patch 5
- Secure Transfer Protocol (FTP) server

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Background Information

ISE can run as a Virtual Machine (VM) or on SNS server. Sometimes is need it to reinstall ISE due to a

problem or for an upgrade process. Reinstalling ISE can become a challenge in some scenarios. For this reason, ISE 3.2 Patch 5 introduces a new feature that allows the user to reinstall ISE using the command line, saving around 40 minutes.

The feature is Localized ISE installation. On command line run the command **application configure ise** which displays this new option:

- [36] Localised ISE Install.

This means that to use this feature, ISE needs to be installed and running.

Another use of this feature is that you can use it to install a higher version. Consider this an upgrade option, just remember that this deletes all the configuration as it install ISE again, even the running-configuration.

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**Warning:** You can use this option to reinstall the current version and higher versions. You cannot install a version that is older than the current version.

---

## Configure

## Step 1. Download the ISO

1. Navigate to ISE folder in the [Download](#) page, download the correct ISO.
  - 1.1. If you are reinstalling ISE, download the same version.
  - 1.2. If you are doing an upgrade, download the ISO you are doing the upgrade to.
2. Copy the ISO to the SFTP server.

## Step 2. Configure a Repository

1. Log in to ISE command line.
2. Run the next commands:

```
<#root>
```

```
#
```

```
configure terminal
```

```
Entering configuration mode terminal
```

```
#
```

```
repository iso
```

```
#
```

```
url sftp://10.10.10.10/folder
```

```
% Warning: Repositories configured from CLI cannot be used from the ISE web UI and are not replicated to the ISE web UI. If this repository is not created in the ISE web UI, it will be deleted when ISE services restart.
```

```
#
```

```
user cisco password plain cisco
```

```
#
```

```
exit
```

```
#
```

```
exit
```

```
#
```

```
crypto host_key add host 10.10.10.10
```



**Note:** This example is using a SFTP repository with ip address 10.10.10.10 with path /folder.  
Replace these values accordingly.

---

### Step 3. Copy the ISO

1. Copy the ISO to the disk, run the command:

```
<#root>
```

```
#
```

```
copy repository iso file ise-3.2.0.542.SPA.x86_64.iso disk://
```

2. Validate the ISO is in the disk, run the command:

```
<#root>
```

```
#
```

```
dir
```

```
Directory of disk:/
```

```
Apr 09 2024 11:01:15
```

```
ise-3.2.0.542.SPA.x86_64.iso
```

## Step 4. Reinstall the Software

1. Run the command **application configure ise** and type option **36**.
2. Select the ISO.
3. Validate the MD5 value. You can take this value and compare it with the [Download](#) page.
4. If the MD5 value is correct, proceed to installation.

```
<#root>
```

```
#
```

```
application configure ise
```

```
Selection configuration option
```

- [1]Reset M&T Session Database
- [2]Rebuild M&T Unusable Indexes
- [3]Purge M&T Operational Data
- [4]Reset M&T Database
- [5]Refresh Database Statistics
- [6]Display Profiler Statistics
- [7]Export Internal CA Store
- [8]Import Internal CA Store
- [9]Create Missing Config Indexes
- [10]Create Missing M&T Indexes
- [12]Generate Daily KPM Stats
- [13]Generate KPM Stats for last 8 Weeks
- [14]Enable/Disable Counter Attribute Collection
- [15]View Admin Users
- [16]Get all Endpoints
- [19]Establish Trust with controller
- [20]Reset Context Visibility
- [21]Synchronize Context Visibility With Database
- [22]Generate Heap Dump
- [23]Generate Thread Dump
- [24]Force Backup Cancellation
- [25]CleanUp ESR 5921 IOS Crash Info Files
- [26]Recreate undotablespace
- [27]Reset Upgrade Tables
- [28]Recreate Temp tablespace
- [29]Clear Sysaux tablespace
- [30]Fetch SGA/PGA Memory usage
- [31]Generate Self-Signed Admin Certificate
- [32]View Certificates in NSSDB or CA\_NSSDB
- [33]Enable/Disable/Current\_status of RSA\_PSS signature for EAP-TLS

[34]Check and Repair Filesystem  
[35]Enable/Disable/Current\_status of Audit-Session-ID Uniqueness  
[36]Localised ISE Install  
[0]Exit

36

ISO files present in the disk are:

[1] ise-3.2.0.542.SPA.x86\_64.iso

[2] ise-3.1.0.518b.SPA.x86\_64.iso

Choose the ISO you want to install:

1

Computing MD5 hash value of the selected ISO...

File selected:ise-3.2.0.542.SPA.x86\_64.iso (MD5:

2e609b6cbeaa5c360d0a09a2a5d3c564

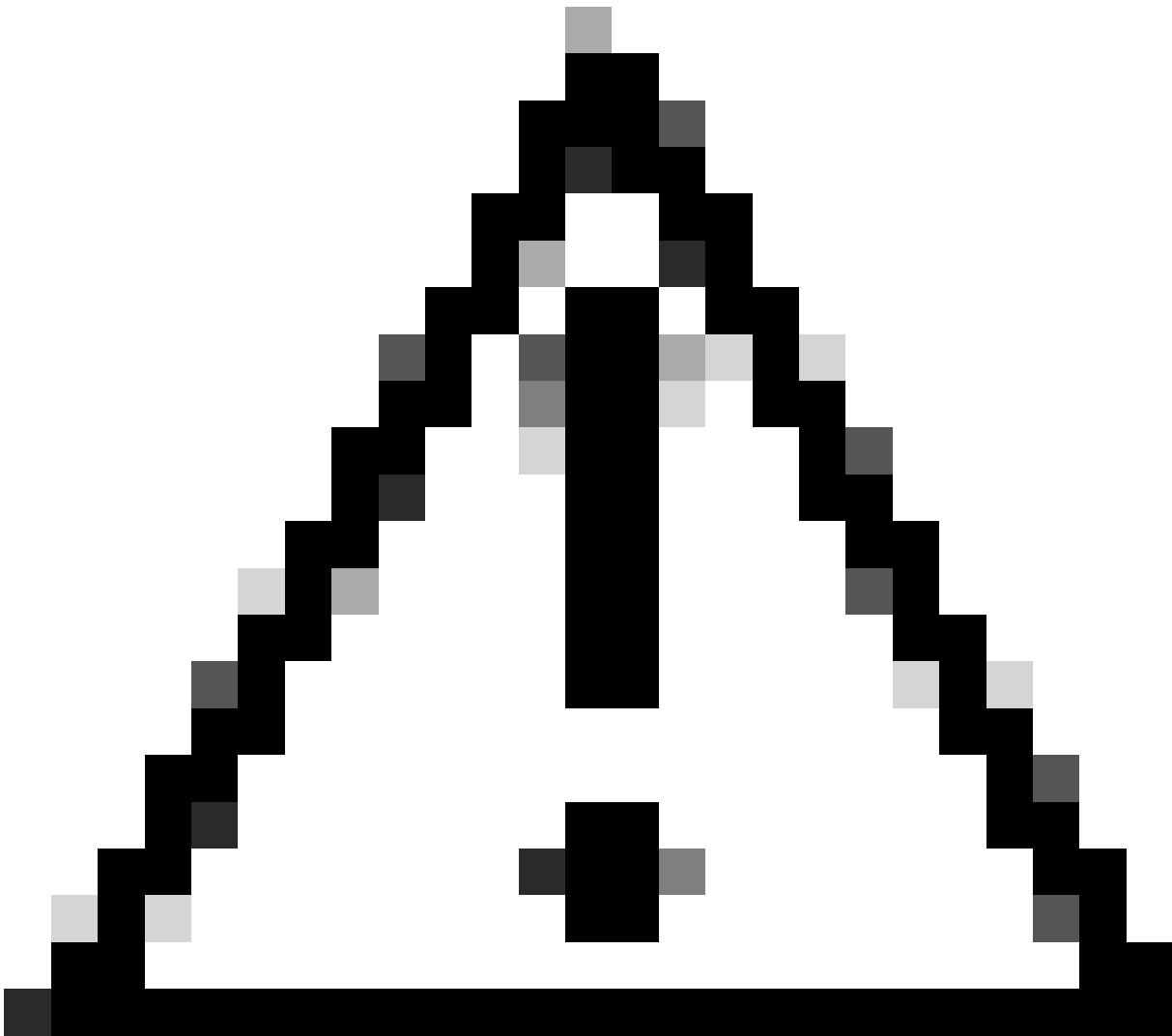
)

Warning: Verify the MD5 checksum of the ISO before you proceed.

Proceed with Installation? [y/n]

y

Copying ISO contents to installer directories. The copy may take around 5 minutes.  
% Notice: The appliance will reboot to install the chosen Cisco ISE release now.



**Caution:** Do not use the MD5 value in this example as the ISO file can be changed, even though, it says it is for ISE 3.2.

Always verify it in [Download](#).

---

5. Check the console to monitor the installation.

```
Stopping udev Kernel Device Manager...
[ OK ] Stopped Apply Kernel Variables.
[ OK ] Stopped Load Kernel Modules.
Stopping Open-iSCSI...
[ OK ] Stopped target Slices.
[ OK ] Started Setup Virtual Console.
[ OK ] Started Plymouth switch root service.
[ OK ] Stopped Open-iSCSI.
[ OK ] Started Cleaning Up and Shutting Down Daemons.
Stopping iSCSI UserSpace I/O driver...
[ OK ] Closed Open-iSCSI iscsid Socket.
[ OK ] Stopped iSCSI UserSpace I/O driver.
[ OK ] Closed Open-iSCSI iscsiio Socket.
[ OK ] Stopped udev Kernel Device Manager.
[ OK ] Stopped Create Static Device Nodes in /dev.
[ OK ] Stopped Create list of required static device nodes for the current kernel.
Stopping Hardware RNG Entropy Gatherer Daemon...
[ OK ] Stopped dracut pre-udev hook.
[ OK ] Stopped dracut cmdline hook.
[ OK ] Closed udev Kernel Socket.
[ OK ] Closed udev Control Socket.
Starting Cleanup udevd DB...
[ OK ] Stopped Hardware RNG Entropy Gatherer Daemon.
[ OK ] Started Cleanup udevd DB.
[ OK ] Reached target Switch Root.
Starting Switch Root...
[ 13.842400] printk: systemd: 25 output lines suppressed due to ratelimiting
[ 14.787224] SELinux: policy capability network_peer_controls=1
[ 14.787719] SELinux: policy capability open_perms=1
[ 14.788110] SELinux: policy capability extended_socket_class=1
[ 14.788448] SELinux: policy capability always_check_network=0
[ 14.788737] SELinux: policy capability cgroup_seclabel=1
[ 14.789046] SELinux: policy capability nsp_sosuid_transition=1
[ 14.822226] audit: type=1403 audit(1712593761.934:2): auid=4294967295 ses=4294967295 ism=selinux
res=1
[ 14.824193] systemd[1]: Successfully loaded SELinux policy in 346.300ms.
```

*Installation in Progress*

## Step 5. Finish the Installation

1. Once the installation has finished, it is time to do the running configuration. Type **setup**.

```
*****
Please type 'setup' to configure the appliance
*****
localhost login:
```

*Setup Menu*

## Verify

Once ISE is installed, validate the version and the services.



1. Run the command **show version**.

```
<#root>
```

```
#
```

```
show version
```

```
Cisco Application Deployment Engine OS Release: 3.2  
ADE-OS Build Version: 3.2.0.542  
ADE-OS System Architecture: x86_64
```

```
Copyright (c) 2005-2022 by Cisco Systems, Inc.  
All rights reserved.  
Hostname: asc-ise32-726
```

```
Version information of installed applications  
-----
```

```
Cisco Identity Services Engine  
-----
```

```
Version :
```

```
3.2.0.542
```

```
Build Date : Tue Aug 30 12:21:58 2022  
Install Date : Tue Apr 9 09:25:41 2024
```

2. Run the command **show application status ise** to check your services are running.

3. Log in to the graphic interface.

## Troubleshoot

1. After the repository is configured, validate it works. Run the command **show repository iso**.

2. Validate the MD5 value.

3. If a lower version was used, the next error appears:

```
Error: You cannot install an earlier version of Cisco ISE (3.1.0). The minimum supported version for in
```

## Related Information

- [Cisco Technical Support & Downloads](#)