


# REMOVED\_Upgrading from the Previous Release

 We recommend migrating directly to one of the latest stable releases of WSO2 Identity Server (i.e., version 5.6.0 or a later version). For instructions on migrating directly to a later version, see [REMOVED\\_Upgrading From an Older Version of WSO2 IS](#).

The following instructions guide you through upgrading from WSO2 Identity Server 5.3.0 to WSO2 Identity Server 5.4.0. In this topic, <OLD\_IS\_HOME> is the directory that Identity Server 5.3.0 resides in and <NEW\_IS\_HOME> is the directory that Identity Server 5.4.0 resides in.



## Before you begin

This release is a WUM-only release. This means that there are no manual patches. Any further fixes or latest updates for this release can be updated through the WSO2 Update Manager (WUM).

- **If you are upgrading to this version to use this version in your production environment**, use the WSO2 Update Manager and get the latest available updates for WSO2 IS 5.4.0. For more information on how to do this, see [Updating WSO2 Products](#).



## Migrating the embedded LDAP user store

It is not generally recommended to use the embedded LDAP user store that is shipped with WSO2 Identity Server in production setups. However, if migration of the embedded LDAP is required, follow the instructions below to migrate the existing IS 5.3.0 LDAP user store to IS 5.4.0.

- Copy the <OLD\_IS\_HOME>/repository/data folder to <NEW\_IS\_HOME>/repository/data folder.
- Restart the server to save the changes.

To upgrade the version of WSO2 Identity Server, the user store database should be upgraded. Note that there are no registry schema changes between versions.

Follow the steps below as needed to complete the migration process.

1. Download Identity Server 5.4.0 and unzip it in the <NEW\_IS\_HOME> directory.
2. Take a backup of the existing database used by Identity Server 5.3.0. This backup is necessary in case the migration causes issues in the existing database.
3. Make the following database updates as indicated below.
  - a. Download the [migration resources](#) and unzip it to a local directory. This folder is referred to as <IS5.4.0\_MIGRATION\_TOOL\_HOME>.
  - b. Copy the org.wso2.carbon.is.migration-5.4.0.jar and snakeyaml-1.16.0.wso2v1.jar to the <NEW\_IS\_HOME>/repository/components/dropins directory.
  - c. Copy the <IS5.4.0\_MIGRATION\_TOOL\_HOME>/migration-resources folder to the <NEW\_IS\_HOME> root folder.
  - d. Ensure that the following property values are as follows in the migration-config.yaml file found in the <NEW\_IS\_HOME>/migration-resources folder.

```
migrationEnable: "true"

currentVersion: "5.3.0"

migrateVersion: "5.4.0"
```

4. Copy any custom OSGI bundles that were added manually from the <OLD\_IS\_HOME>/repository/components/dropins folder and paste it in the <NEW\_IS\_HOME>/repository/components/dropins folder.
5. Copy any added JAR files from the <OLD\_IS\_HOME>/repository/components/lib folder and paste it in the <NEW\_IS\_HOME>/repository/components/lib folder.
6. Copy the .jks files from the <OLD\_IS\_HOME>/repository/resources/security folder and paste them in <NEW\_IS\_HOME>/repository/resources/security folder.
7. If you have created tenants in the previous WSO2 Identity Server version and if there are any resources in the <OLD\_IS\_HOME>/repository/tenants directory, copy the content to the <NEW\_IS\_HOME>/repository/tenants directory.
8. If you have created secondary user stores in the previous WSO2 IS version, copy the content in the <OLD\_IS\_HOME>/repository/deployment/server/userstores directory to the <NEW\_IS\_HOME>/repository/deployment/server/userstores directory.
9. The [ClaimManagementService](#) API is not recommended for use with WSO2 IS 5.3.0. If you are using the [ClaimManagementService](#) API and have written any clients using the service, convert the clients to the new and improved [ClaimMetaDataManagementService](#) API that is packaged with WSO2 IS 5.3.0.



**Tip:** To enable admin services and view the WSDLs, set the <HideAdminServiceWSDLs> element to false in the <PRODUCT\_HOME>/repository/conf/carbon.xml file. For more information, see [Calling Admin Services](#).

```
<HideAdminServiceWSDLs>false</HideAdminServiceWSDLs>
```

10. You can use one of the following approaches to migrate depending on your production environment.

- **Migrate by applying custom configurations to 5.4.0**

**This approach is recommended if:**

- You have done no custom changes in your previous version of WSO2 IS.
- You have done very few custom changes in your previous version of WSO2 IS. These custom changes have been tracked and are easy to redo.

**Steps:**

- a. If you have done custom changes to the config files in your previous version of WSO2 IS, update the files in the <NEW\_IS\_HOME>/repository/conf folder with your custom configurations.
- b. Proceed to [step 11](#) to run the migration client.

- **Migrate by updating existing configurations with what's new in 5.4.0**

**This approach is recommended if:**

- You have done many custom changes in your previous version of WSO2 IS.
- These custom changes have not been tracked completely and/or are difficult to redo.

**Steps:**

- Make a copy of the <OLD\_IS\_HOME>/repository/conf folder. (Do not change the original configs. You may use it as a backup in case there are any issues)
- Copy the following configuration files from the <NEW\_IS\_HOME> and paste it in the copy of the <OLD\_IS\_HOME> in the relevant path.
  - <IS\_HOME>/repository/conf/identity/charon-config.xml
  - <IS\_HOME>/repository/conf/scim2-schema-extension.config



The two configuration files mentioned above were added in IS 5.4.0 for the SCIM 2.0 connector. For more information about the SCIM 2.0 connector, see [Configuring SCIM 2.0 Provisioning Connector](#) in the ISConnectors documentation.

- The table below lists out all the configuration changes from IS 5.3.0 to IS 5.4.0. You can scroll through the table and change the relevant configurations according to the features you are using.



**Tip:** Scroll left/right to view the entire table below.

**Note:** The configuration changes listed below will not affect the existing system because these configurations are applied only at first start up and new tenant creation.

If you wish to change the configurations for the existing tenants, configure it through the management console user interface.

<see gdoc for configs>

- Replace the <NEW\_IS\_HOME>/repository/conf folder with the modified copy of the <OLD\_IS\_HOME>/repository/conf folder.
- Proceed to [step 11](#) to run the migration client.

11. Start the Identity Server 5.4.0 with the following command to perform the data migration for all components.

a. Linux/Unix:

```
sh wso2server.sh -Dmigrate
```

b. Windows:

```
wso2server.bat -Dmigrate
```

- ✔ If you have updated your WSO2 IS 5.4.0 pack using WSO2 Update Manager (WUM) with WSO2 Carbon 4.4.X Update 2018-01-05, use this command to perform the data migration instead:

a. Linux/Unix:

```
sh wso2server.sh -Dmigrate -Dcomponent=identity
```

b. Windows:

```
wso2server.bat -Dmigrate -Dcomponent=identity
```

12. Once the migration is successful, stop the server and start using the appropriate command.

a. Linux/Unix:

```
sh wso2server.sh
```

b. Windows:

```
wso2server.bat
```

- ✔ If you have switched off the account disabling feature, open the `identity.xml` file and ensure that this property exists.

If not, add the property to the file.

```
module.name.5=account.disable.handler  
account.disable.handler.enable=false  
account.disable.handler.subscription.1=PRE_AUTHENTICATION
```

As this property will only apply at first startup of the server or for new tenant creations, switch off the account disabling feature via the management console as well. For more information on how to do this, see [Account Disabling](#).