



Configuring Security Domains, Release 12.1.3

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New and Changed Information

The following table provides an overview of the significant changes up to this current release. The table does not provide an exhaustive list of all changes or of the new features up to this release.

Release Version	Feature	Description
NDFC release 12.1.3	Reorganized content	Content within this document was originally provided in the <i>Cisco NDFC-Fabric Controller Configuration Guide</i> or the <i>Cisco NDFC-SAN Controller Configuration Guide</i> . Beginning with release 12.1.3, this content is now provided solely in this document and is no longer provided in those documents.

Nexus Dashboard Security Domains

Access control information about a user login contains authentication data like user ID, password, and so on. Based on the authorization data, you can access resources accordingly. Admins in Cisco Nexus Dashboard can create security domains and group various resource types, resource instance, and map them into a security domain. The admins define an AV-pair for each user, which defines the access privileges for users to different resources in Cisco Nexus Dashboard. When you create a fabric, a site is created in Nexus Dashboard with the same fabric name. You can create and view these sites from **Nexus Dashboard > Sites**.

The Cisco Nexus Dashboard Fabric Controller REST APIs use this information to perform any action by checking the authorization.



When accessing REST APIs, you can verify passed payload in JSON format. Ensure that the payload is an appropriate JSON format.

When you upgrade from Cisco Nexus Dashboard Fabric Controller Release 11.x, each fabric is mapped to an autogenerated site of the same name. All these sites are mapped into the **all** security domain in Nexus Dashboard.

All resources are placed in **all** domain before they are assigned or mapped to other domains. The all security domain does not include all the available security domains in Nexus Dashboard.

AV-Pairs

A group of security domains along with read and write roles for each domain are specified using AV-pairs. Administrators define AV-pair for each user. The AV-pair defines the access privileges to users across various resources in Nexus Dashboard.

The AV-pair format is as follows:

```
"avpair":  
  
"shell:domains=security-domain/write-role-1|write-role-2,security-domain/write-role-1|write-role2/read-role-1|read-role-2"``
```

For example:

```
"avpair":  
  
"shell:domains=all/network-admin/app-user|network-operator"
```

This example makes the user a super-user. It's best to avoid examples with "all/admin/".

The write role is inclusive of read role as well. Hence, **all/network-admin/** and **all/network-admin/network-admin** are the same.



From Cisco Nexus Dashboard Fabric Controller Release 12.0.1a supports the existing AV-pair format that you created in Cisco Nexus Dashboard Fabric Controller Release 11.x. However, if you are creating a new AV-pair, use the format that is mentioned above. Ensure that the shell: domains must not have any spaces.

Specifying Cisco NX-OS User Roles and SNMPv3 Parameters on AAA Servers

You can use the VSA cisco-AV-pair on AAA servers to specify user role mapping for the Cisco NX-OS device using this format:

```
shell:roles="roleA roleB ..."
```

If you do not specify the role option in the cisco-AV-pair attribute, the default user role is network-operator.

You can also specify your SNMPv3 authentication and Privacy protocol attributes as follows:

```
shell:roles="roleA roleB..." snmpv3:auth=SHA priv=AES-128
```

The SNMPv3 authentication protocol options are SHA and MD5. The Privacy protocol options are AES-128 and DES. If you do not specify these options in the cisco-AV-pair attribute, MD5 and DES are the default authentication protocols.

Creating a Security Domain

To create a security domain from Cisco Nexus Dashboard, perform the following steps:

1. Log into Cisco Nexus Dashboard.
2. Choose **Administrative** > **Security**.
3. Navigate to **Security Domains** tab.
4. Click **Create Security Domain**.
5. Enter the required details and click **Create**.

Creating a User

To create a user from Cisco Nexus Dashboard, perform the following steps:

1. Log into Cisco Nexus Dashboard.
2. Choose **Administrative** > **Users**.
3. Click **Create Local User**.
4. Enter the required details and click **Add Security Domain**.

5. Choose a domain from the drop-down list.
6. Assign a Cisco Nexus Dashboard Fabric Controller service read or write role by checking the appropriate check box.
7. Click **Save**.

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