

# Users

Managed devices include a default **admin** account for CLI access. This chapter discusses how to create custom user accounts.

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## **About Users**

You can add custom user accounts on managed devices, either as internal users or as external users on a LDAP or RADIUS server. Each managed device maintains separate user accounts. For example, when you add a user to the management center, that user only has access to the management center; you cannot then use that username to log directly into a managed device. You must separately add a user on the managed device.

### **Internal and External Users**

Managed devices support two types of users:

- Internal user—The device checks a local database for user authentication.
- External user—If the user is not present in the local database, the system queries an external LDAP or RADIUS authentication server.

### **CLI Access**

Firepower devices include a Firepower CLI that runs on top of Linux. You can create internal users on devices using the CLI. You can establish external users on threat defense devices using the management center.



On managed devices, user access to commands in the CLI depends on the role you assign.

#### None

The user cannot log into the device on the command line.

### Config

The user can access all commands, including configuration commands. Exercise caution in assigning this level of access to users.

### Basic

The user can access non-configuration commands only. Only internal users and threat defense external RADIUS users support the Basic role.

# **Requirements and Prerequisites for User Accounts for Devices**

### **Model Support**

· Threat Defense-Internal and external users

### **Supported Domains**

Any

### **User Roles**

Configure external users—Super Admin or Admin user

Configure internal users-Super Admin or Admin user

# **Guidelines and Limitations for User Accounts for Devices**

### Usernames

- You cannot add the same username for both internal and external users. If the external server uses a duplicate username, the deployment to the device fails.
- The username must be Linux-valid:
  - Maximum 32 alphanumeric characters, plus hyphen (-) and underscore (\_)
  - All lowercase
  - Cannot start with hyphen (-); cannot be all numbers; cannot include a period (.), at sign (@), or slash (/)

### Defaults

All devices include an **admin** user as a local user account; you cannot delete the **admin** user. The default initial password is **Admin123**; the system forces you to change this during the initialization process. See the getting started guide for your model for more information about system initialization.

#### Number of User Accounts

You can create a maximum of 43 user accounts for the Firepower 1000 and 2100.

# Add an Internal User at the CLI

Use the CLI to create internal users on the threat defense.

### Procedure

**Step 1** Log into the device CLI using an account with Config privileges.

The **admin** user account has the required privileges, but any account with Config privileges will work. You can use an SSH session or the Console port.

For certain threat defense models, the Console port puts you into the FXOS CLI. Use the **connect ftd** command to get to the threat defense CLI.

**Step 2** Create the user account.

### configure user add username {basic | config}

- username-Sets the username. The username must be Linux-valid:
  - Maximum 32 alphanumeric characters, plus hyphen (-) and underscore (\_)
  - · All lowercase

- **basic**—Gives the user basic access. This role does not allow the user to enter configuration commands.
- **config**—Gives the user configuration access. This role gives the user full administrator rights to all commands.

### **Example:**

The following example adds a user account named johncrichton with Config access rights. The password is not shown as you type it.

```
> configure user add johncrichton config
Enter new password for user johncrichton: newpassword
Confirm new password for user johncrichton: newpassword
> show user
Login UID Auth Access Enabled Reset Exp Warn Str Lock Max
admin 1000 Local Config Enabled No Never N/A Dis No N/A
johncrichton 1001 Local Config Enabled No Never N/A Dis No 5
```

Note

Tell users they can change their own passwords using the **configure password** command.

**Step 3** (Optional) Adjust the characteristics of the account to meet your security requirements.

You can use the following commands to change the default account behavior.

• configure user aging username max\_days warn\_days

Sets an expiration date for the user's password. Specify the maximum number of days for the password to be valid followed by the number of days before expiration the user will be warned about the upcoming expiration. Both values are 1 to 9999, but the warning days must be less than the maximum days. When you create the account, there is no expiration date for the password.

• configure user forcereset username

Forces the user to change the password on the next login.

• configure user maxfailedlogins username number

Sets the maximum number of consecutive failed logins you will allow before locking the account, from 1 to 9999. Use the **configure user unlock** command to unlock accounts. The default for new accounts is 5 consecutive failed logins.

• configure user minpasswdlen username number

Sets a minimum password length, which can be from 1 to 127.

• configure user strengthcheck username {enable | disable}

Enables or disables password strength checking, which requires a user to meet specific password criteria when changing their password. When a user's password expires or if the **configure user forcereset** command is used, this requirement is automatically enabled the next time the user logs in.

### **Step 4** Manage user accounts as necessary.

Users can get locked out of their accounts, or you might need to remove accounts or fix other issues. Use the following commands to manage the user accounts on the system.

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• configure user access username { basic | config }

Changes the privileges for a user account.

• configure user delete username

Deletes the specified account.

configure user disable username

Disables the specified account without deleting it. The user cannot log in until you enable the account.

configure user enable username

Enables the specified account.

• configure user password username

Changes the password for the specified user. Users should normally change their own password using the **configure password** command.

• configure user unlock username

Unlocks a user account that was locked due to exceeding the maximum number of consecutive failed login attempts.

## **Troubleshooting LDAP Authentication Connections**

If you create an LDAP authentication object and it either does not succeed in connecting to the server you select or does not retrieve the list of users you want, you can tune the settings in the object.

If the connection fails when you test it, try the following suggestions to troubleshoot your configuration:

- Use the messages displayed at the top of the web interface screen and in the test output to determine which areas of the object are causing the issue.
- Check that the user name and password you used for the object are valid:
  - Check that you have the rights to browse to the directory indicated in your base-distinguished name by connecting to the LDAP server using a third-party LDAP browser.
  - Check that the user name is unique to the directory information tree for the LDAP server.
  - If you see an LDAP bind error 49 in the test output, the user binding for the user failed. Try authenticating to the server through a third-party application to see if the binding fails through that connection as well.
- · Check that you have correctly identified the server:
  - Check that the server IP address or host name is correct.
  - Check that you have TCP/IP access from your local appliance to the authentication server where you want to connect.
  - Check that access to the server is not blocked by a firewall and that the port you have configured in the object is open.

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- If you are using a certificate to connect via TLS or SSL, the host name in the certificate must match the host name used for the server.
- Check that you have not used an IPv6 address for the server connection if you are authenticating CLI access.
- If you used server type defaults, check that you have the correct server type and click **Set Defaults** again to reset the default values.
- If you typed in your base-distinguished name, click **Fetch DNs** to retrieve all the available base distinguished names on the server, and select the name from the list.
- If you are using any filters, access attributes, or advanced settings, check that each is valid and typed correctly.
- If you are using any filters, access attributes, or advanced settings, try removing each setting and testing the object without it.
- If you are using a base filter or a CLI access filter, make sure that the filter is enclosed in parentheses and that you are using a valid comparison operator (maximum 450 characters, including the enclosing parentheses).
- To test a more restricted base filter, try setting it to the base distinguished name for the user to retrieve just that user.
- If you are using an encrypted connection:
  - Check that the name of the LDAP server in the certificate matches the host name that you use to connect.
  - Check that you have not used an IPv6 address with an encrypted server connection.
- If you are using a test user, make sure that the user name and password are typed correctly.
- If you are using a test user, remove the user credentials and test the object.
- Test the query that you are using by connecting to the LDAP server and using this syntax:

```
ldapsearch -x -b 'base_distinguished_name'
-h LDAPserver_ip_address -p port -v -D
'user distinguished name' -W 'base filter'
```

For example, if you are trying to connect to the security domain on myrtle.example.com using the domainadmin@myrtle.example.com user and a base filter of (cn=\*), you could test the connection using this statement:

```
ldapsearch -x -b 'CN=security,DC=myrtle,DC=com'
-h myrtle.example.com -p 389 -v -D
'domainadmin@myrtle.example.com' -W '(cn=*)'
```

If you can test your connection successfully but authentication does not work after you deploy a platform settings policy, check that authentication and the object you want to use are both enabled in the platform settings policy that is applied to the device.

If you connect successfully but want to adjust the list of users retrieved by your connection, you can add or change a base filter or CLI access filter or use a more restrictive or less restrictive base DN.

While authenticating a connection to Active Directory (AD) server, rarely the connection event log indicates blocked LDAP traffic although the connection to AD server is successful. This incorrect connection log occurs when the AD server sends a duplicate reset packet. The threat defense device identifies the second reset packet as part of a new connection request and logs the connection with Block action.

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