



Authentication, Authorization, and Accounting Commands

This module describes the commands used to configure authentication, authorization, and accounting (AAA) services.

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secret

To configure an encrypted or clear-text password for the user, use the **secret** command in username configuration mode or line template configuration mode. To remove this configuration, use the **no** form of this command.

secret [0 [**enc-type** *enc-type-value*] |5|8|9|10] *secret-login*

no secret

Syntax Description	<p>0 (Optional) Specifies that an unencrypted (clear-text) password follows. The password will be encrypted for storage in the configuration using an MD5 encryption algorithm. Otherwise, the password is not encrypted.</p> <p>5 Specifies that an encrypted MD5 password (secret) follows.</p> <p>8 (Optional) Specifies that SHA256-encrypted password follows.</p> <p>9 (Optional) Specifies that scrypt-encrypted password follows.</p> <p>10 (Optional) Specifies that SHA512-encrypted password follows.</p> <p><i>secret-login</i> Text string in alphanumeric characters that is stored as the MD5-encrypted password entered by the user in association with the user's login ID.</p> <p>Note The characters entered must conform to MD5 encryption standards.</p> <p>enc-type (Optional) Configures the encryption type for a password entered in clear text.</p> <p><i>enc-type-value</i> Specifies the encryption type to be used.</p>				
Command Default	No password is specified.				
Command Modes	<p>Username configuration</p> <p>Line template configuration</p>				
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>6.5.33</td><td>This command was introduced.</td></tr> </table>	Release	Modification	6.5.33	This command was introduced.
Release	Modification				
6.5.33	This command was introduced.				
Usage Guidelines	Secrets are one-way encrypted and should be used for login activities that do not require a decryptable secret.				
Task ID	<table> <tr> <th>Task ID</th><th>Operation</th></tr> <tr> <td>aaa</td><td>read, write</td></tr> </table>	Task ID	Operation	aaa	read, write
Task ID	Operation				
aaa	read, write				

Example

The following example shows how to establish the clear-text secret “lab” for the user user2 :

```
RP/0/RP0/CPU0:ios(config)#username cisco
RP/0/RP0/CPU0:ios(config-un)#secret ?
RP/0/RP0/CPU0:ios(config-un)#secret 9
$9$q8j4v/mf1SOg5v$nGAhRkf0ek3wSYjDG/VKhwp2znPaWusuZtkx9Z1sM
```

policy

To configure a policy that is common for user password as well as secret, use the **policy** command in username configuration mode. To remove this configuration, use the **no** form of this command.

policy *policy-name*

Syntax Description	policy-name Specifies the name of the policy that is common for user password as well as secret.				
Command Default	None				
Command Modes	username				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>6.5.33</td><td>This command was introduced.</td></tr></table>	Release	Modification	6.5.33	This command was introduced.
Release	Modification				
6.5.33	This command was introduced.				
Usage Guidelines	For detailed usage guidelines for this command, see the section of AAA <i>Password Security Policies</i> chapter of <i>Configure Authentication for Cisco NCS 4000</i>				
Task ID	<table><tr><th>Task ID</th><th>Operation</th></tr><tr><td>aaa</td><td>read, write</td></tr></table>	Task ID	Operation	aaa	read, write
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aaa	read, write				

Example

This example shows how to configure a password policy that applies to both the password and the secret of the user.

```
RP/0/RP0/CPU0:router#configure
RP/0/RP0/CPU0:router(config)#username test_1
RP/0/RP0/CPU0:router(config-un)#policy test-policy1
RP/0/RP0/CPU0:router(config-un)#secret 10
$6$dmwuW0Ajicf98W0.$y/vzynWF1/OcGxwBwHs79VAy5ZZLhoHd7TicR4mOo8IIVriYCGAKW0A.w1JvTPO7IbZry.DxHrE3SN2BBzBJe0
RP/0/RP0/CPU0:router(config-un)#commit
```

username

To configure a new user with a username, establish a password, associate a password policy with the user, grant permissions for the user, and to enter username configuration mode, use the **username** command in XR Config mode or System Admin Config mode. To delete a user from the database, use the **no** form of this command.

username *name*
no username *name*

Syntax Description	username Name of the user. The name argument can be only one word. Spaces and quotation marks are not allowed.				
Command Default	No usernames are defined in the system.				
Command Modes					
Command History	<table> <tr> <th>Release</th><th>Modification</th></tr> <tr> <td>6.5.33</td><td>This command was introduced.</td></tr> </table>	Release	Modification	6.5.33	This command was introduced.
Release	Modification				
6.5.33	This command was introduced.				
Usage Guidelines	Use the username command to identify the user and enter username configuration mode.				
Task ID	<table> <tr> <th>Task ID</th><th>Operation</th></tr> <tr> <td>aaa</td><td>read, write</td></tr> </table>	Task ID	Operation	aaa	read, write
Task ID	Operation				
aaa	read, write				

Example

The following example shows the commands available after executing the **username** command:

```
RP/0/RP0/CPU0:router#config
RP/0/RP0/CPU0:router(config)#username user1
```

username