



Configuring Local Authentication and Authorization

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How to Configure Local Authentication and Authorization

Configuring the Switch for Local Authentication and Authorization

You can configure AAA to operate without a server by setting the switch to implement AAA in local mode. The switch then handles authentication and authorization. No accounting is available in this configuration.



Note To secure the switch for HTTP access by using AAA methods, you must configure the switch with the **ip http authentication aaa** global configuration command. Configuring AAA authentication does not secure the switch for HTTP access by using AAA methods.

Follow these steps to configure AAA to operate without a server by setting the switch to implement AAA in local mode:

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **aaa new-model**
4. **aaa authentication login default local**
5. **aaa authorization exec default local**
6. **aaa authorization network default local**
7. **username** *name* [**privilege level**] {**password** *encryption-type password*}
8. **end**
9. **show running-config**

10. copy running-config startup-config

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2	configure terminal Example: Device# configure terminal	Enters global configuration mode.
Step 3	aaa new-model Example: Device(config)# aaa new-model	Enables AAA.
Step 4	aaa authentication login default local Example: Device(config)# aaa authentication login default local	Sets the login authentication to use the local username database. The default keyword applies the local user database authentication to all ports.
Step 5	aaa authorization exec default local Example: Device(config)# aaa authorization exec default local	Configures user AAA authorization, check the local database, and allow the user to run an EXEC shell.
Step 6	aaa authorization network default local Example: Device(config)# aaa authorization network default local	Configures user AAA authorization for all network-related service requests.
Step 7	username name [privilege level] {password encryption-type password} Example: Device(config)# username your_user_name privilege 1 password 7 secret567	Enters the local database, and establishes a username-based authentication system. Repeat this command for each user. <ul style="list-style-type: none"> • For <i>name</i>, specify the user ID as one word. Spaces and quotation marks are not allowed.

	Command or Action	Purpose
		<ul style="list-style-type: none"> • (Optional) For <i>level</i>, specify the privilege level the user has after gaining access. The range is 0 to 15. Level 15 gives privileged EXEC mode access. Level 0 gives user EXEC mode access. • For <i>encryption-type</i>, enter 0 to specify that an unencrypted password follows. Enter 7 to specify that a hidden password follows. • For <i>password</i>, specify the password the user must enter to gain access to the switch. The password must be from 1 to 25 characters, can contain embedded spaces, and must be the last option specified in the username command.
Step 8	end Example: Device(config)# end	Returns to privileged EXEC mode.
Step 9	show running-config Example: Device# show running-config	Verifies your entries.
Step 10	copy running-config startup-config Example: Device# copy running-config startup-config	(Optional) Saves your entries in the configuration file.

Monitoring Local Authentication and Authorization

To display Local Authentication and Authorization configuration, use the **show running-config** privileged EXEC command.

Additional References

Error Message Decoder

Description	Link
To help you research and resolve system error messages in this release, use the Error Message Decoder tool.	https://www.cisco.com/cgi-bin/Support/Errordecoder/index.cgi

MIBs

MIB	MIBs Link
All the supported MIBs for this release.	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	http://www.cisco.com/support

Feature History for Local Authentication and Authorization

This table provides release and related information for features explained in this module.

These features are available on all releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Everest 16.6.1	Local Authentication and Authorization	This feature helps AAA to operate without a server by setting the device to implement AAA in local mode.

Use Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>.