

A Commands

This chapter describes the Cisco NX-OS security commands that begin with A.

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aaa accounting default

To configure authentication, authorization, and accounting (AAA) methods for accounting, use the **aaa accounting default** command. To revert to the default, use the **no** form of this command.

aaa accounting default {group {group-list} | local}

no aaa accounting default {**group** {*group*-*list*} | **local**}

group-list Space-delimited list that specifies one or more configured RADIUS ser groups. local Specifies that the local database be used for accounting. Command Default The local database is the default. Command Modes Global configuration mode Command History Release Modification 5.2(1)N1(1) This command was introduced. Usage Guidelines The group group-list method refers to a set of previously defined RADIUS or TACACS+ servers. the radius-server host command to configure the host servers. Use the aaa group server comma create a named group of servers.
Command Default The local database is the default. Command Modes Global configuration mode Command History Release Modification 5.2(1)N1(1) This command was introduced. Usage Guidelines The group group-list method refers to a set of previously defined RADIUS or TACACS+ servers. the radius-server host command to configure the host servers. Use the aaa group server command to configure the host servers. Use the aaa group server command to configure the host servers. Use the aaa group server command to configure the host servers. Use the aaa group server command to configure the host servers. Use the aaa group server command to configure the host servers. Use the aaa group server command to configure the host servers. Use the aaa group server command to configure the host servers.
Command Modes Global configuration mode Command History Release Modification 5.2(1)N1(1) This command was introduced. Usage Guidelines The group group-list method refers to a set of previously defined RADIUS or TACACS+ servers. the radius-server host command to configure the host servers. Use the aaa group server command to configure the host servers.
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Usage Guidelines The group <i>group-list</i> method refers to a set of previously defined RADIUS or TACACS+ servers. the radius-server host command to configure the host servers. Use the aaa group server command to configure the host servers.
the radius-server host command to configure the host servers. Use the aaa group server comma
If you specify the group method, or local method and they fail, then the accounting authenticatio fail.
Examples This example shows how to configure any RADIUS server for AAA accounting: switch(config)# aaa accounting default group
switch(config)# aaa accounting default group
Related Commands Command Description
Related Commands Command Description aaa group server radius Configures AAA RADIUS server groups.
switch(config)# aaa accounting default group Related Commands Command Description aaa group server Configures AAA RADIUS server groups.

Configures TACACS+ servers.

tacacs-server host

aaa authentication login console

To configure authentication, authorization, and accounting (AAA) authentication methods for console logins, use the **aaa authentication login console** command. To revert to the default, use the **no** form of this command.

aaa authentication login console {group *group-list*} [none] | local | none}

no aaa authentication login console {group group-list [none] | local | none}

Syntax Description	group	Specifies to use a server group for authentication.	
	group-list	Space-separated list of RADIUS or TACACS+ server groups. The list can include the following:	
		• radius for all configured RADIUS servers.	
		• tacacs+ for all configured TACACS+ servers.	
		• Any configured RADIUS or TACACS+ server group name.	
	none	(Optional) Specifies to use the username for authentication.	
	local	(Optional) Specifies to use the local database for authentication.	
Command Default	The local database		
Command Modes	Global configuration	on mode	
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	The group radius, group tacacs+ , and group <i>group-list</i> methods refer to a set of previously defined RADIUS or TACACS+ servers. Use the radius-server host or tacacs-server host command to configure the host servers. Use the aaa group server command to create a named group of servers. If you specify the group method or local method and they fail, then the authentication can fail. If you		
Examples	This example show	nethod alone or after the group method, then the authentication always succeeds. As how to configure the AAA authentication console login method: aaa authentication login console group radius	
	This example shows how to revert to the default AAA authentication console login method: switch(config)# no aaa authentication login console group radius		

Related Commands

Command	Description
aaa group server	Configures AAA server groups.
radius-server host	Configures RADIUS servers.
show aaa authentication	Displays AAA authentication information.
tacacs-server host	Configures TACACS+ servers.

aaa authentication login default

To configure the default authentication, authorization, and accounting (AAA) authentication methods, use the **aaa authentication login default** command. To revert to the default, use the **no** form of this command.

aaa authentication login default {group group-list} [none] | local | none}

no aaa authentication login default {group *group-list*} [none] | local | none}

Syntax Description	group	Specifies that a server group be used for authentication.	
	group-list	Space-separated list of RADIUS or TACACS+ server groups that can include the following:	
		• radius for all configured RADIUS servers.	
		• tacacs+ for all configured TACACS+ servers.	
		• Any configured RADIUS or TACACS+ server group name.	
	none	(Optional) Specifies that the username be used for authentication.	
	local	(Optional) Specifies that the local database be used for authentication.	
Command Default	The local database		
Command Modes	Global configuration	on mode	
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	The group radius, group tacacs+ , and group <i>group-list</i> methods refer to a set of previously defined RADIUS or TACACS+ servers. Use the radius-server host or tacacs-server host command to configure the host servers. Use the aaa group server command to create a named group of servers.		
		group method or local method and they fail, then the authentication fails. If you nethod alone or after the group method, then the authentication always succeeds.	
Examples	-	vs how to configure the AAA authentication console login method:	
	<pre>switch(config)# aaa authentication login default group radius</pre>		
	This example show	vs how to revert to the default AAA authentication console login method:	
	switch(config)# 1	no aaa authentication login default group radius	

Related	Commands
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ommands	Command	Description
	aaa group server	Configures AAA server groups.
	radius-server host	Configures RADIUS servers.
	show aaa authentication	Displays AAA authentication information.
	tacacs-server host	Configures TACACS+ servers.

aaa authentication login error-enable

To configure that the authentication, authorization, and accounting (AAA) authentication failure message displays on the console, use the **aaa authentication login error-enable** command. To revert to the default, use the **no** form of this command.

aaa authentication login error-enable

no aaa authentication login error-enable

Syntax Description This command has no arguments or keywords.

Command Default Disabled

Command Modes Global configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Usage Guidelines When you log in, the login is processed by rolling over to the local user database if the remote AAA servers do not respond. In this situation, the following message is displayed if you have enabled the displaying of login failure messages:

Remote AAA servers unreachable; local authentication done. Remote AAA servers unreachable; local authentication failed.

ExamplesThis example shows how to enable the display of AAA authentication failure messages to the console:
switch(config)# aaa authentication login error-enableThis example shows how to disable the display of AAA authentication failure messages to the console:

switch(config) # no aaa authentication login error-enable

Related Commands	Command	Description
	show aaa authentication	Displays the status of the AAA authentication failure message display.

aaa authentication login mschap enable

To enable Microsoft Challenge Handshake Authentication Protocol (MS-CHAP) authentication at login, use the **aaa authentication login mschap enable** command. To revert to the default, use the **no** form of this command.

aaa authentication login mschap enable

no aaa authentication login mschap enable

Syntax Description This command has no arguments or keywords.

Command Default Disabled

Command Modes Global configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

ExamplesThis example shows how to enable MS-CHAP authentication:
switch(config)# aaa authentication login mschap enableThis example shows how to disable MS-CHAP authentication:

switch(config)# no aaa authentication login mschap enable

Related Commands	Command	Description
	show aaa authentication	Displays the status of MS-CHAP authentication.

aaa authorization commands default

To configure default authentication, authorization, and accounting (AAA) authorization methods for all EXEC commands, use the **aaa authorization commands default** command. To revert to the default, use the **no** form of this command.

aaa authorization commands default [group group-list] [local | none]

no aaa authorization commands default [group group-list] [local | none]

Syntax Description	group	(Optional) Specifies to use a server group for authorization.	
	group-list	List of server groups.	
		The list can include the following:	
		• tacacs+ for all configured TACACS+ servers.	
		• Any configured TACACS+ server group name.	
		The name can be a space-separated list of server groups, and a maximum of 127 characters.	
	local	(Optional) Specifies to use the local role-based database for authorization.	
	none	(Optional) Specifies to use no database for authorization.	
Command Default	None		
Command Modes	Global configuration	on mode	
Command History	Release	Modification	
	5.2(1)N1(1)	This command was introduced.	
Usage Guidelines	To use this command, you must enable the TACACS+ feature by using the feature tacacs+ command		
	The group tacacs+ and group <i>group-list</i> methods refer to a set of previously defined TACACS+ servers. Use the tacacs-server host command to configure the host servers. Use the aaa group server command to create a named group of servers. Use the show aaa groups command to display the server groups of the device.		
	If you specify more than one server group, the Cisco NX-OS software checks each group in the order that you specify in the list. The local method or the none method is used only if all the configured server groups fail to respond and you have configured local or none as the fallback method.		
	If you specify the group method or local method and it fails, then the authorization can fail. If you specify the none method alone or after the group method, then the authorization always succeeds.		
Examples	This example show	s how to configure the default AAA authorization methods for EXEC commands:	

switch(config)# aaa authorization commands default group TacGroup local
switch(config)#

This example shows how to revert to the default AAA authorization methods for EXEC commands:

 $\label{eq:switch} \mbox{(config) $\#$ no aaa authorization commands default group TacGroup local switch(config) $\#$}$

Related Commands

Command	Description	
aaa authorization config-commands default	Configures default AAA authorization methods for configuration commands.	
aaa server group	Configures AAA server groups.	
feature tacacs+	Enables the TACACS+ feature.	
show aaa authorization	Displays the AAA authorization configuration.	
tacacs-server host	Configures a TACACS+ server.	

aaa authorization config-commands default

To configure the default authentication, authorization, and accounting (AAA) authorization methods for all configuration commands, use the **aaa authorization config-commands default** command. To revert to the default, use the **no** form of this command.

aaa authorization config-commands default [group group-list] [local | none]

no aaa authorization config-commands default [group group-list] [local | none]

Syntax Description	group	(Optional) Specifies to use a server group for authorization.
	group-list	List of server groups.
		The list can include the following:
		• tacacs+ for all configured TACACS+ servers.
		• Any configured TACACS+ server group name.
		The name can be a space-separated list of server groups, and a maximum of 127 characters.
	local	(Optional) Specifies to use the local role-based database for authorization.
	none	(Optional) Specifies to use no database for authorization.
Command Default	None	
	1,0110	
Command Modes	- Global configuratio	on mode
Command Modes	- Global configuratio	on mode
Command Modes	Global configuratio	on mode Modification
	Release	Modification
Command History	Release	Modification
	Release 5.2(1)N1(1)	Modification
Command History	Release 5.2(1)N1(1) To use this comman The group tacacs+ Use the tacacs-serv	Modification This command was introduced. nd, you must enable the TACACS+ feature by using the feature tacacs+ command. • and group group-list methods refer to a set of previously defined TACACS+ servers. ver host command to configure the host servers. Use the aaa group server command
Command History	Release5.2(1)N1(1)To use this commanThe group tacacs+Use the tacacs-serventorto create a named gethe device.If you specify morethat you specify in	Modification This command was introduced.

 Examples
 This example shows how to configure the default AAA authorization methods for configuration commands:

 switch(config)# aaa authorization config-commands default group TacGroup local switch(config)#

 This example shows how to revert to the default AAA authorization methods for configuration commands:

switch(config)# no aaa authorization config-commands default group TacGroup local switch(config)#

Related Commands	Command	Description
	aaa authorization commands default	Configures default AAA authorization methods for EXEC commands.
	aaa server group	Configures AAA server groups.
	feature tacacs+	Enables the TACACS+ feature.
	show aaa authorization	Displays the AAA authorization configuration.
	tacacs-server host	Configures a TACACS+ server.

aaa authorization ssh-certificate

To configure the default authentication, authorization, and accounting (AAA) authorization method for TACACS+ servers, use the **aaa authorization ssh-certificate** command. To disable this configuration, use the **no** form of this command.

aaa authorization ssh-certificate default {group group-list | local}

no aaa authorization ssh-certificate default {group group- $list \mid local$ }

Syntax Description	group	Specifies to use a server group for authorization.
	group-list	Space-separated list of server groups. The list can include the following:
		• tacacs+ for all configured TACACS+ servers.
		• Any configured TACACS+ server group name. The server group name can be a maximum of 127 characters.
	local	Specifies to use the local database for authentication.
Command Default	local	
Command Modes	Global configu	ration mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	To use this com	mand, you must enable the TACACS+ feature using the feature tacacs+ command.
	LDAP servers.	acs+ and group <i>group-list</i> methods refer to a set of previously defined TACACS+ and Use the tacacs-server host command to configure the host servers. Use the aaa group and to create a named group of servers. Use the show aaa groups command to display the in the device.
	that you specify	nore than one server group, the Cisco NX-OS software checks each group in the order y in the list. The local method is used only if all the configured server groups fail to u have configured local as the fallback method.
	configured a fal	he group method or local method and it fails, the authorization can fail. If you have not llback method after the TACACS+ or LDAP server group method, authorization fails if fail to respond.
	This command	does not require a license.
Examples	AAA authoriza	hows how to configure the local database with certificate authentication as the default tion method:

switch(config)# aaa authorization ssh-certificate default local
switch(config)#

Related Commands	Command	Description
	aaa authorization	Configures local authorization with the SSH public key as the default
	ssh-publickey	AAA authorization method.
	feature tacacs+	Enables the TACACS+ feature.
	show aaa authorization	Displays the AAA authorization configuration.

aaa authorization ssh-publickey

To configure local authorization with the Secure Shell (SSH) public key as the default AAA authorization method for TACACS+ servers, use the **aaa authorization ssh-publickey** command. To revert to the default, use the **no** form of this command.

aaa authorization ssh-publickey default {group group-list | local}

no aaa authorization ssh-publickey default {group group-list | local}

Syntax Description	group	Specifies to use a server group for authorization.
	group-list	Space-separated list of server groups. The server group name can be a maximum of 127 characters.
	local	Specifies to use the local database for authentication.
Command Default	local	
Command Modes	Global configura	ation mode
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Usage Guidelines	that you specify	nore than one server group, the Cisco NX-OS software checks each group in the order in the list. The local method is used only if all the configured server groups fail to have configured local as the fallback method.
	• • •	e group method or local method and it fails, the authorization can fail. If you have not lback method after the server group method, authorization fails if all server groups fail
	This command d	loes not require a license.
Examples	This example sh authorization me	lows how to configure local authorization with the SSH public key as the default AAA ethod:
	switch# config switch(config) switch(config)	# aaa authorization ssh-publickey default local
	switch(config)	#

Related Commands	Command	Description
	aaa authorization ssh-certificate	Configures local authorization with certificate authentication as the default AAA authorization method.
	show aaa authorization	Displays the AAA authorization configuration.

aaa group server radius

To create a RADIUS server group and enter RADIUS server group configuration mode, use the **aaa group server radius** command. To delete a RADIUS server group, use the **no** form of this command.

aaa group server radius group-name

no aaa group server radius group-name

Syntax Description	group-name	RADIUS server group name.
Command Default	None	
Command Modes	Global configuration r	node
Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.
Examples	This example shows h mode:	ow to create a RADIUS server group and enter RADIUS server configuration
	switch(config)# aaa switch(config-radius	group server radius RadServer
	This example shows h	ow to delete a RADIUS server group:
	<pre>switch(config)# no a</pre>	aaa group server radius RadServer
Related Commands	Command	Description
neialeu commalius	show aaa groups	Displays server group information.

aaa user default-role

To enable the default role assigned by the authentication, authorization, and accounting (AAA) server administrator for remote authentication, use the **aaa user default-role** command. To disable the default role, use the **no** form of this command.

aaa user default-role

no aaa user default-role

Syntax Description This command has no arguments or keywords.

Command Default Enabled

Command Modes Global configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Examples This example shows how to enable the default role assigned by the AAA server administrator for remote authentication:

switch(config)# aaa user default-role
switch(config)#

This example shows how to disable the default role assigned by the AAA server administrator for remote authentication:

switch(config)# no aaa user default-role
switch(config)#

Related Commands	Command	Description
	show aaa user default-role	Displays the status of the default user for remote authentication.
	show aaa authentication	Displays AAA authentication information.

action

To specify what the switch does when a packet matches a **permit** command in a VLAN access control list (VACL), use the **action** command. To remove an **action** command, use the **no** form of this command.

action {drop forward}

no action {drop forward}

drop	Specifies that the switch drops the packet.
forward	Specifies that the switch forwards the packet to its destination port.
None	
VLAN access-map	configuration mode
Release	Modification
5.2(1)N1(1)	This command was introduced.
	d specifies the action that the device takes when a packet matches the conditions in by the match command.
-	how to create a VLAN access map named vlan-map-01, assign an IPv4 ACL named o, specify that the switch forwards packets matching the ACL, and enable statistics the map:
switch(config-acce switch(config-acce	<pre>lan access-map vlan-map-01 ess-map)# match ip address ip-acl-01 ess-map)# action forward</pre>
switch(config-acc	ess-map)# statistics
switch(config-acco	<pre>bess-map)# statistics Description</pre>
Command	Description Specifies an ACL for traffic filtering in a VLAN access map.
Command match	Description Specifies an ACL for traffic filtering in a VLAN access map.
Command match show vlan access-n	Description Specifies an ACL for traffic filtering in a VLAN access map. nap Displays all VLAN access maps or a VLAN access map.
Command match show vlan access-n show vlan filter	Description Specifies an ACL for traffic filtering in a VLAN access map. nap Displays all VLAN access maps or a VLAN access map. Displays information about how a VLAN access map is applied.
	None VLAN access-map of Release 5.2(1)N1(1) The action commanthe ACL specified b This example shows ip-acl-01 to the map for traffic matching switch (config) # vi switch (config-according)

action