AAA Commands

connectorctl aaa show

This command shows the AAA configuration made on Cisco Spaces: Connector.

Parameters

None.

connectorctl aaa show

Usage Guidelines

The following sample displays the output when AAA server is configured without IPSec.

```
[cmxadmin@connector-01 ~]$ connectorctl aaa show
--------------------------------------------------
AAA Server is Enabled
AAA Server IP: 10.22.244.114
AAA Server Port: 1812
Shared Secret: **<<masked>>**

IPSec is Disabled
Connection to AAA Server Successful. AAA Settings are correct.
.
----------------------------------------------------------------
```

connectorctl aaa edit

This command edits an existing Authentication, Authorization, and Accounting (AAA) configuration on Cisco Spaces: Connector.

Parameters

Parameter	Description
Do you want to CHANGE AAA Server settings	Choose to change the existing AAA configurations.
Enter AAA Server Host IP	IP address of the AAA server.
Enter AAA Server Port	Port used to connect to the AAA server. Default value is 1812.
Enter AAA Server's shared secret key	Shared secret key used to connect to the AAA server.
Do you want to enable IPSec?	Choose to enable or disable IPSec. If you chose to disable IPSec, the connection established to the external AAA server is un-encrypted and over UDP.
Enter AAA Server's DNS name	Domain Name Server (DNS) name of the AAA server.
Select IPSec Auth Type: (pubkey/psk)	Choose between two types of IPSec Authentication, namely **pubkey** or **PSK**.
Do you want to auto-generate ('a') OR provide ('p') PSK from Radius Server ?	• a: Choose to auto-generate the PSK. • p: Choose to provide PSK configured on the AAA server.
Enter PSK from Radius Server	Enter a PSK value existing on the AAA server.

connectorctl aaa edit

Usage Guidelines The following sample output has both AAA and Internet Protocol Security (IPSec) enabled. IPSec is enabled with pre-shared key (PSK). Choosing the provide option allows you to specify a PSK that is available on the AAA server.

```
[cmxadmin@connector-01 ~]$ connectorctl aaa edit
-------------------------------------------------------
Do you want to CHANGE AAA Server settings? [yes/no] [yes]:
Enter AAA Server Host IP  [10.22.244.114]:
Enter AAA Server Port  [1812]:
Enter AAA Server's shared secret key :
Repeat for confirmation:
Do you want to enable IPSec? (y/n) [y]:
Enter AAA Server's DNS name  [aaa-srv-01]:
Select IPSec Auth Type: (pubkey/psk) [pubkey]: psk
Do you want to auto-generate ('a') OR provide ('p') PSK from Radius Server ? [a]: p
Enter PSK from Radius Server : 7dBoZXAkhadFMsyJ8e9HsBxdajnUPcxS

AAA Server configured successfully
```

```
Connection to AAA Server Successful. AAA Settings are correct.
IPSec is Enabled
IPSec Status:
Security Associations (1 up, 0 connecting):
        aaa[1]: ESTABLISHED 1 second ago,
10.22.244.100[connector-01]...10.22.244.114[aaa-srv-01]
        aaa{1}:  INSTALLED, TRANSPORT, reqid 1, ESP SPIs: c59d3960_i cf338432_o
        aaa{1}:   10.22.244.100/32 === 10.22.244.114/32
        aaa{2}:  INSTALLED, TRANSPORT, reqid 1, ESP SPIs: c75d414b_i c7e495e2_o
        aaa{2}:   10.22.244.100/32 === 10.22.244.114/32
.
---------------------------------------------------------------
```

The folllowing sample output has both AAA and Internet Protocol Security (IPSec) enabled. IPSec is enabled with a pre-shared key (PSK). Choosing the auto-generate option allows you to specify a PSK that is available on the AAA server.

```
[cmxadmin@connector-01 ~]$ connectorctl aaa edit
Do you want to CHANGE AAA Server settings? [yes/no] [yes]:
Enter AAA Server Host IP  [10.22.244.114]:
Enter AAA Server Port  [1812]:
Enter AAA Server's shared secret key :
Repeat for confirmation:
Do you want to enable IPSec? (y/n) [y]:
Enter AAA Server's DNS name  [aaa-srv-01]:
Select IPSec Auth Type: (pubkey/psk) [psk]:
Do you want to auto-generate ('a') OR provide ('p') PSK from Radius Server ? [a]: a
Generated PSK value = 3AhBgueQQ6YBkKMwqIr6jyxIuG9ekw8g

AAA Server configured successfully
Connection to AAA Server Successful. AAA Settings are correct.
IPSec is Enabled
IPSec Status:
Security Associations (0 up, 0 connecting):
  no match
```

The auto-generated PSK value is displayed in the output. While IPSec is enabled, the IPSec tunnel may not be established immediately as indicated by the following section of the output.

```
IPSec Status:
Security Associations (0 up, 0 connecting):
  no match
```

You can use the **connectorctl aaa show** command after a few minutes to check if the IPSec tunnel has been established. You can compare the PSK values in both outputs and verify that they are the same.

```
[cmxadmin@connector-01 ~]$ connectorctl aaa show
AAA Server is Enabled
AAA Server IP: 10.22.244.114
AAA Server Port: 1812
Shared Secret: **<<masked>>**

IPSec is Enabled
AAA Server DNS: aaa-srv-01
IPSec Auth type: psk
IPSec PSK: 3AhBgueQQ6YBkKMwqIr6jyxIuG9ekw8g
IPSec Status:
Security Associations (1 up, 0 connecting):
        aaa[3]: ESTABLISHED 20 seconds ago,
10.22.244.100[connector-01]...10.22.244.114[aaa-srv-01]
        aaa{3}:  INSTALLED, TRANSPORT, reqid 1, ESP SPIs: ca4688d1_i c24be7d9_o
        aaa{3}:   10.22.244.100/32 === 10.22.244.114/32

Connection to AAA Server Successful. AAA Settings are correct.
```

Related Topics

connectorctl aaa enable

This command configures and enables authentication using a Authentication, Authorization, and Accounting (AAA) server. You can choose to enable the Internet Protocol Security (IPSec) protocol. Two types of IPSec protocols are supported, namely pubkey and PSK.

If you chose to disable IPSec, the connection established to the external AAA server is un-encrypted and over UDP.

Parameters

Parameter	Description
Do you want to configure a AAA server.	Choose to configure a AAA server.
Enter AAA Server Host IP	IP address of the AAA server.
Enter AAA Server Port	Port used to connect to the AAA server. Default value is 1812.
Enter AAA Server's shared secret key	Shared secret key used to connect to the AAA server.
Do you want to enable IPSec?	Choose to enable or disable IPSec. If you chose to disable IPSec, the connection established to the external AAA server is un-encrypted and over UDP.
Enter AAA Server's DNS name	Domain Name Server (DNS) name of the AAA server.
Select IPSec Auth Type: (pubkey/psk)	Choose between two types of IPSec Authentication, namely **pubkey** or **PSK**.
Do you want to auto-generate ('a') OR provide ('p') PSK from Radius Server ?	• a: Choose to auto-generate the PSK. • p: Choose to provide the PSK configured on the AAA server.
Enter PSK from Radius Server	Enter the name of the existing PSK on the AAA server.

connectorctl aaa enable

Usage Guidelines The following sample output shows a AAA server enabled without IPSec security protocol.

```
[cmxadmin@connector-01 ~]$ connectorctl aaa enable
---------------------------------------------------------
Do you want to configure AAA Server? [yes/no] [yes]:
Enter AAA Server Host IP : 10.22.244.114
Enter AAA Server Port  [1812]:
Enter AAA Server's shared secret key :
Repeat for confirmation:
Do you want to enable IPSec? (y/n) [n]:

AAA Server configured successfully
```

```
Connection to AAA Server Successful. AAA Settings are correct.
----------------------------------------------------------------
```

The following sample output shows a AAA server enabled with IPSec security protocol.

```
[cmxadmin@connector-01 ~]$ connectorctl aaa enable
-----------------------------------------------------------
Do you want to configure AAA Server? [yes/no] [yes]:
Enter AAA Server Host IP : 10.22.244.114
Enter AAA Server Port  [1812]:
Enter AAA Server's shared secret key :
Repeat for confirmation:
Do you want to enable IPSec? (y/n) [n]: y
Enter AAA Server's DNS name : aaa-srv-01
Select IPSec Auth Type: (pubkey/psk) [pubkey]:
AAA Server's CA Certificate file : radiusca.pem

Connection to AAA Server Successful. AAA Settings are correct.

IPSec is Enabled
IPSec Status:
Security Associations (1 up, 0 connecting):
        aaa[1]: ESTABLISHED 0 seconds ago,
10.30.114.46[10.30.114.46]...10.22.244.114[aaa-srv-01]
        aaa{1}:  INSTALLED, TUNNEL, reqid 1, ESP SPIs: ca07f0e2_i cd4dcf30_o
        aaa{1}:   10.30.114.46/32 === 10.22.244.114/32

Restarting cmx-agent ...  Done
AAA Server configured successfully
Please wait for 2 minutes to login to the UI.
----------------------------------------------------------------
```

Related Topics

connectorctl aaa disable

This command disables the Authentication, Authorization, and Accounting (AAA) configurations as well any Internet Protocol Security (IPSec) configurations on Cisco Spaces: Connector.

Parameters

None.

connectorctl aaa disable

Usage Guidelines   The following sample is the command output when both Authentication, Authorization, and Accounting (AAA) and Internet Protocol Security (IPSec) are enabled. The **connectorctl aaa disable** command disables both protocols.

```
[cmxadmin@cmxkeyhashlll ~]$ connectorctl aaa disable
----------------------------------------------------------
Do you want to disable AAA Server? [yes/no] [yes]:
IPSec tunnel disabled
AAA Server is Disabled
-------------------------------------------------------------
```

The following sample is the command output when only AAA is enabled without IPSec.

```
[cmxadmin@cmxkeyhashlll ~]$ connectorctl aaa disable
----------------------------------------------------
Do you want to disable AAA Server? [yes/no] [yes]:
AAA Server is Disabled
-------------------------------------------------------------
```

connector aaa restart

This command restarts the IP Security tunnel established from the Cisco Spaces: Connector to the existing Authentication, Authorization, and Accounting (AAA) server.

Parameters

None

connectorctl aaa restart

Usage Guidelines

When AAA is disabled, the **connectorctl aaa restart** command displays the following sample output.

```
[dnasadmin@cisco-dna-spaces-connector-7 ~]$ connectorctl aaa restart
Error: Cannot restart IPSec tunnel as AAA is disabled.
```

When AAA is enabled but IPSec is disabled, the **connectorctl aaa restart** command displays the following sample output.

```
[dnasadmin@cisco-dna-spaces-connector-7 ~]$ connectorctl aaa restart
Error: Cannot restart IPSec tunnel as IPSec is disabled.
```

When AAA and IPSec are both enabled, the **connectorctl aaa restart** command displays the following sample output.

```
[dnasadmin@cisco-dna-spaces-connector-7 ~]$ connectorctl aaa restart
Restarted IPSec tunnel

IPSec Status:
Security Associations (1 up, 0 connecting):
        aaa[1]: ESTABLISHED 0 seconds ago,
10.30.114.46[cisco-dna-spaces-connector-7]...10.22.244.114[aaa-srv-01]
        aaa{1}:  INSTALLED, TUNNEL, reqid 1, ESP SPIs: c32e5888_i c9e2ab84_o
        aaa{1}:   10.30.114.46/32 === 10.22.244.114/32
```

Related Topics

connector aaa restart