

分析ASA的AAA设备管理行为

目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[背景信息](#)

[网络图](#)

[配置](#)

[第 1 种情况：通过AAA服务器配置的ASA身份验证](#)

[第 2 种情况：通过AAA服务器配置的ASA身份验证和执行授权](#)

[实例3：其它WRR加权修改通过AAA服务器配置的ASA身份验证、执行授权和命令授权](#)

[实例4：修改队列极限缓冲区分配ASA身份验证、使用“auto-enable”的执行授权和通过AAA服务器配置](#)
[的命令授权](#)

[相关信息](#)

简介

本文档介绍当ASA配置为使用AAA服务器进行身份验证和授权时的设备管理行为。本文档显示思科身份服务引擎(ISE)作为AAA服务器的使用，Active Directory作为外部身份库。TACACS+是使用的AAA协议。

作者：Dinesh Moudgil和Poonam Garg，Cisco HTTS工程师

先决条件

要求

Cisco 建议您了解以下主题：

- ASA的CLI和ASDM的基本知识
- ASA和AAA服务器之间的连接
- 思科ISE上的AAA配置，用于身份验证和授权

使用的组件

- 运行9.9(2)的ASAv
- 思科身份服务引擎2.6

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

背景信息

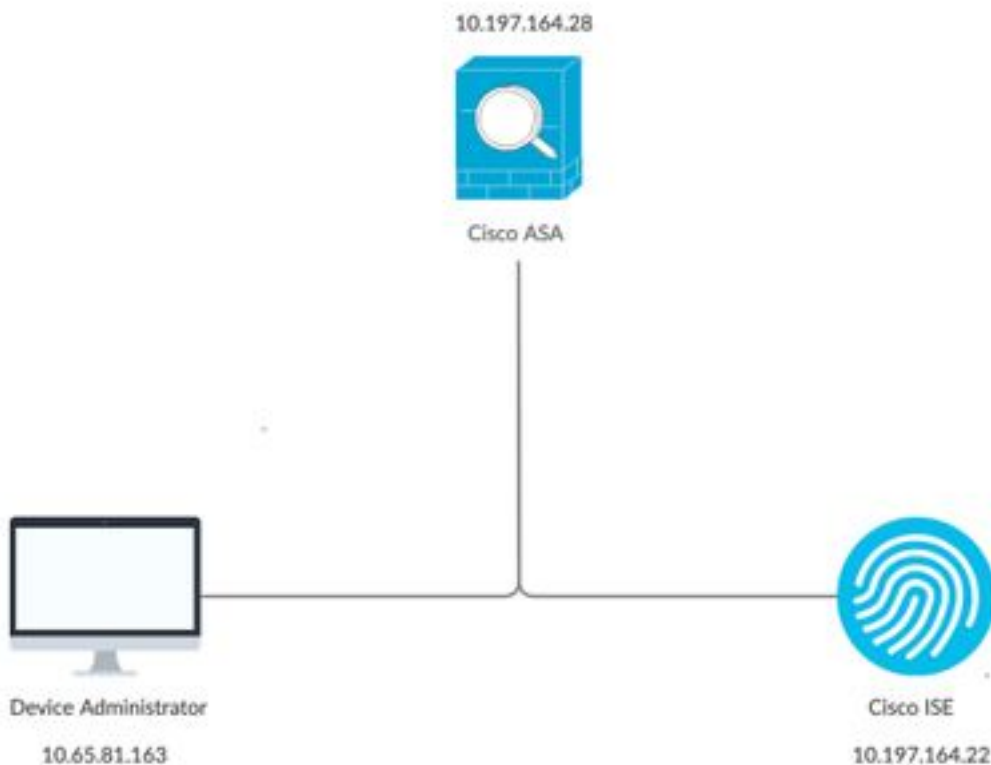
Cisco ASA支持使用本地用户数据库、RADIUS服务器或TACACS+服务器对管理会话进行身份验证。管理员可以通过以下方式连接到Cisco ASA:

- Telnet
- Secure Shell (SSH)
- 串行控制台连接
- 思科ASA设备管理器(ASDM)

如果通过Telnet或SSH连接，用户可以在用户出错时重试三次身份验证。第三次之后，身份验证会话和与Cisco ASA的连接将关闭。

在启动配置之前，必须确定要使用的用户数据库（本地或外部AAA服务器）。如果使用外部AAA服务器（如本文档所配置），请按照以下各节所述配置AAA服务器组和主机。在访问思科ASA进行管理时，可以使用aaa authentication和aaa authorization命令分别要求身份验证和授权验证。

网络图



配置

这是本文档中所有示例所使用的信息。

a)ASA配置：

```
aaa-server ISE protocol tacacs+
aaa-server ISE (internet) host 10.197.164.22
key *****
```

b)AAA配置：

AAA服务器上的身份验证是根据身份库序列执行的，该序列包括AD和本地数据库

第 1 种情况：通过AAA服务器配置的ASA身份验证

在ASA上：

```
aaa authentication ssh console ISE LOCAL
```

在AAA服务器上：

授权结果：

a)外壳配置文件

默认权限：1
最大权限：15

b)命令集

全部允许

管理员行为：

```
Connection to 10.197.164.28 closed.
DMOUDGIL-M-N1D9:~ dmoudgil$
DMOUDGIL-M-N1D9:~ dmoudgil$
DMOUDGIL-M-N1D9:~ dmoudgil$ ssh ASA_priv1@10.197.164.28
ASA_priv1@10.197.164.28's password:
User ASA_priv1 logged in to ciscoasa
Logins over the last 9 days: 11. Last login: 12:59:51 IST May 7 2020 from 10.65.81.163
Failed logins since the last login: 0.
Type help or '?' for a list of available commands.
ciscoasa> enable
Password:
ciscoasa#
ciscoasa# show curpriv
Username : enable_15
Current privilege level : 15
Current Mode/s : P_PRIV
```

ASA日志：

```
May 07 2020 12:57:26: %ASA-6-113008: AAA transaction status ACCEPT : user = ASA_priv1
```

```
May 07 2020 12:57:26: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Username: ASA_priv1
May 07 2020 12:57:26: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Username: ASA_priv1
May 07 2020 12:57:26: %ASA-6-605005: Login permitted from 10.65.81.163/56048 to
internet:10.197.164.28/ssh for user "ASA_priv1"
May 07 2020 12:57:30: %ASA-7-111009: User 'enable_15' executed cmd: show logging
May 07 2020 12:57:40: %ASA-5-502103: User priv level changed: Username: enable_15 From: 1 To: 15
May 07 2020 12:57:40: %ASA-5-111008: User 'ASA_priv1' executed the 'enable' command.
```

观察结果:

- 1.通过AAA服务器执行SSH会话的身份验证
- 2.授权在本地完成，而与授权结果中在AAA服务器上配置的权限无关
- 3.通过AAA服务器对用户进行身份验证后，当用户输入关键字“enable”（默认情况下未设置密码）或输入使能密码（如果已配置）时，使用的相应用户名为**enable_15**

```
May 07 2020 12:57:40: %ASA-5-502103: User priv level changed: Username: enable_15 From: 1 To: 15
```

- 4.除非您定义具有特定权限的启用密码，否则启用密码的默认权限为15。例如：

```
enable password C!sco123 level 9
```

- 5.如果您使用的是具有不同权限的enable，则ASA上出现的相应用户名是**enable_x**（其中x是权限）

```
May 07 2020 13:20:49: %ASA-5-502103: User priv level changed: Username: enable_8 From: 1 To: 8
```

第 2 种情况：通过AAA服务器配置的ASA身份验证和执行授权

在ASA上：

```
aaa authentication ssh console ISE LOCAL
aaa authorization exec authentication-server
```

在AAA服务器上：

授权结果：

a)外壳配置文件

默认权限：1
最大权限：15

b)命令集

全部允许

管理员行为：

```
DMOUDGIL-M-N1D9:~ dmoudgil$ ssh ASA_priv1@10.197.164.28
ASA_priv1@10.197.164.28's password:
User ASA_priv1 logged in to ciscoasa
Logins over the last 1 days: 8. Last login: 14:12:52 IST May 7 2020 from 10.65.81.163
Failed logins since the last login: 0.
Type help or '?' for a list of available commands.
ciscoasa> show curpriv
Username : ASA_priv1
Current privilege level : 1
Current Mode/s : P_UNPR
ciscoasa> enable
Password:
ciscoasa# show curpriv
Username : enable_15
Current privilege level : 15
Current Mode/s : P_PRIV
```

ASA日志：

```
May 07 2020 13:59:54: %ASA-6-113004: AAA user authentication Successful : server = 10.197.164.22
: user = ASA_priv1
May 07 2020 13:59:54: %ASA-6-302013: Built outbound TCP connection 75 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/49068
(10.197.164.28/49068)
May 07 2020 13:59:54: %ASA-6-113004: AAA user authorization Successful : server = 10.197.164.22
: user = ASA_priv1
May 07 2020 13:59:54: %ASA-6-113008: AAA transaction status ACCEPT : user = ASA_priv1
May 07 2020 13:59:54: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Uname: ASA_priv1
May 07 2020 13:59:54: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Uname: ASA_priv1
May 07 2020 13:59:54: %ASA-6-605005: Login permitted from 10.65.81.163/57671 to
internet:10.197.164.28/ssh for user "ASA_priv1"
May 07 2020 13:59:59: %ASA-5-502103: User priv level changed: Uname: enable_15 From: 1 To: 15
May 07 2020 13:59:59: %ASA-5-111008: User 'ASA_priv1' executed the 'enable' command.
```

观察结果:

- 1.通过AAA服务器执行身份验证和执行授权
- 2.执行授权管理为身份验证配置的控制台连接 (ssh、telnet和enable) 的所有请求的用户权限

注意：这不包括到ASA的串行连接

3. AAA服务器的配置方式是提供默认权限1和授权后的最大权限15
- 4.当用户通过AAA服务器上配置的TACACS+凭证登录ASA时，AAA服务器最初会为用户授予权限1
- 5.一旦用户输入关键字“enable”，再次按Enter键（如果未配置启用密码）或输入启用密码（如果已配置），他们将进入特权更改为15的特权模式

实例3：其它WRR加权修改通过AAA服务器配置的ASA身份验证、执行授权和命令授权

在ASA上：

```
aaa authentication ssh console ISE LOCAL
aaa authorization exec authentication-server
aaa authorization command ISE LOCAL
```

在AAA服务器上：

授权结果：

a)外壳配置文件

默认权限：1
最大权限：15

b)命令集

全部允许

管理员行为：

```
DMOUDGIL-M-N1D9:~ dmoudgil$ ssh ASA_priv1@10.197.164.28
ASA_priv1@10.197.164.28's password:
User ASA_priv1 logged in to ciscoasa
Logins over the last 1 days: 7. Last login: 17:12:23 IST May 9 2020 from 10.65.81.163
Failed logins since the last login: 0. Last failed login: 17:12:21 IST May 9 2020 from
10.65.81.163
Type help or '?' for a list of available commands.
ciscoasa> show curpriv
Username : ASA_priv1
Current privilege level : 1
Current Mode/s : P_UNPR
ciscoasa> enable
Password:
ciscoasa# show curpriv
Command authorization failed
```

ASA日志：

```
May 09 2020 17:13:05: %ASA-6-113004: AAA user authentication Successful : server = 10.197.164.22
: user = ASA_priv1
May 09 2020 17:13:05: %ASA-6-302013: Built outbound TCP connection 170 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/21275
(10.197.164.28/21275)
May 09 2020 17:13:05: %ASA-6-302014: Teardown TCP connection 169 for internet:10.197.164.22/49
to identity:10.197.164.28/30256 duration 0:00:00 bytes 67 TCP Reset-I from internet
May 09 2020 17:13:05: %ASA-6-113004: AAA user authorization Successful : server = 10.197.164.22
: user = ASA_priv1
May 09 2020 17:13:05: %ASA-6-113008: AAA transaction status ACCEPT : user = ASA_priv1
May 09 2020 17:13:05: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Uname: ASA_priv1
May 09 2020 17:13:05: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Uname: ASA_priv1
May 09 2020 17:13:05: %ASA-6-605005: Login permitted from 10.65.81.163/49218 to
internet:10.197.164.28/ssh for user "ASA_priv1"
May 09 2020 17:13:05: %ASA-6-302014: Teardown TCP connection 170 for internet:10.197.164.22/49
to identity:10.197.164.28/21275 duration 0:00:00 bytes 61 TCP Reset-I from internet
May 09 2020 17:13:05: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:13:07: %ASA-7-609001: Built local-host internet:10.197.164.22
```

```
May 09 2020 17:13:07: %ASA-6-302013: Built outbound TCP connection 171 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/53081
(10.197.164.28/53081)
May 09 2020 17:13:07: %ASA-7-111009: User 'ASA_priv1' executed cmd: show curpriv
May 09 2020 17:13:08: %ASA-6-302014: Teardown TCP connection 171 for internet:10.197.164.22/49
to identity:10.197.164.28/53081 duration 0:00:00 bytes 82 TCP Reset-I from internet
May 09 2020 17:13:08: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:13:10: %ASA-5-502103: User priv level changed: Uname: enable_15 From: 1 To: 15
May 09 2020 17:13:10: %ASA-5-111008: User 'ASA_priv1' executed the 'enable' command.
May 09 2020 17:13:12: %ASA-7-609001: Built local-host internet:10.197.164.22
May 09 2020 17:13:12: %ASA-6-302013: Built outbound TCP connection 172 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/46803
(10.197.164.28/46803)
May 09 2020 17:13:12: %ASA-6-113016: AAA credentials rejected : reason = Unspecified : server =
10.197.164.22 : user = ***** : user IP = 10.65.81.163
May 09 2020 17:13:12: %ASA-6-302014: Teardown TCP connection 172 for internet:10.197.164.22/49
to identity:10.197.164.28/46803 duration 0:00:00 bytes 82 TCP Reset-I from internet
May 09 2020 17:13:12: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:13:20: %ASA-7-609001: Built local-host internet:10.197.164.22
May 09 2020 17:13:20: %ASA-6-302013: Built outbound TCP connection 173 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/6934 (10.197.164.28/6934)
May 09 2020 17:13:20: %ASA-6-113016: AAA credentials rejected : reason = Unspecified : server =
10.197.164.22 : user = ***** : user IP = 10.65.81.163
```

观察结果:

- 1.通过AAA服务器执行身份验证和执行授权
- 2.执行授权管理为身份验证配置的控制台连接 (ssh、telnet和enable) 的所有请求的用户权限
- 3.命令授权由AAA服务器使用命令“aaa authorization command ISE LOCAL”执行

注意：这不包括到ASA的串行连接

- 4.当用户通过AAA服务器上配置的TACACS+凭证登录ASA时，AAA服务器最初会为用户授予权限1
- 5.一旦用户输入关键字“enable”，再次按Enter键（如果未配置启用密码）或输入启用密码（如果已配置），他们将进入特权更改为15的特权模式
- 6.此配置下命令授权失败，因为AAA服务器显示由用户名“enable_15”发出的命令，而不是真实登录的经过身份验证的用户。
- 7.在现有会话上执行的任何命令也会因命令授权失败而失败
- 8.要解决此问题，请在AAA服务器上或AD和ASA（用于本地回退）上创建名为“enable_15”的用户，并使用随机密码

在AAA服务器或AD上配置用户后，会观察到以下行为：

- i. 对于初始身份验证，AAA服务器验证登录用户的实际用户名
 - ii. 输入使能密码后，会在ASA上本地验证该密码，因为使能身份验证不指向此配置中的AAA服务器
- 三、启用密码后，所有命令都使用用户名“enable_15”执行，而AAA允许这些命令，因为AAA服务器或AD上存在该用户名

配置用户“enable_15”后，允许管理员在ASA上从特权模式转换到配置模式。

管理员行为：

```
DMOUDGIL-M-N1D9:~ dmoudgil$ ssh ASA_priv1@10.197.164.28
ASA_priv1@10.197.164.28's password:
User ASA_priv1 logged in to ciscoasa
Logins over the last 1 days: 2. Last login: 16:50:42 IST May 9 2020 from 10.65.81.163
Failed logins since the last login: 5. Last failed login: 16:53:55 IST May 9 2020 from
10.65.81.163
Type help or '?' for a list of available commands.
ciscoasa> show curpriv
Username : ASA_priv1
Current privilege level : 1
Current Mode/s : P_UNPR
ciscoasa> enable
Password:
ciscoasa# show curpriv
Username : enable_15
Current privilege level : 15
Current Mode/s : P_PRIV
ciscoasa# configure terminal
```

ASA日志 :

```
May 09 2020 17:05:29: %ASA-6-113004: AAA user authentication Successful : server = 10.197.164.22
: user = ASA_priv1
May 09 2020 17:05:29: %ASA-6-302013: Built outbound TCP connection 113 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/31109
(10.197.164.28/31109)
May 09 2020 17:05:29: %ASA-6-113004: AAA user authorization Successful : server = 10.197.164.22
: user = ASA_priv1
May 09 2020 17:05:29: %ASA-6-113008: AAA transaction status ACCEPT : user = ASA_priv1
May 09 2020 17:05:29: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Uname: ASA_priv1
May 09 2020 17:05:29: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Uname: ASA_priv1
May 09 2020 17:05:29: %ASA-6-302014: Teardown TCP connection 112 for internet:10.197.164.22/49
to identity:10.197.164.28/7703 duration 0:00:00 bytes 67 TCP Reset-I from internet
May 09 2020 17:05:29: %ASA-6-605005: Login permitted from 10.65.81.163/65524 to
internet:10.197.164.28/ssh for user "ASA_priv1"
May 09 2020 17:05:29: %ASA-6-302014: Teardown TCP connection 113 for internet:10.197.164.22/49
to identity:10.197.164.28/31109 duration 0:00:00 bytes 61 TCP Reset-I from internet
May 09 2020 17:05:29: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:05:32: %ASA-7-609001: Built local-host internet:10.197.164.22
May 09 2020 17:05:32: %ASA-6-302013: Built outbound TCP connection 114 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/64339
(10.197.164.28/64339)
May 09 2020 17:05:32: %ASA-7-111009: User 'ASA_priv1' executed cmd: show curpriv
May 09 2020 17:05:32: %ASA-6-302014: Teardown TCP connection 114 for internet:10.197.164.22/49
to identity:10.197.164.28/64339 duration 0:00:00 bytes 82 TCP Reset-I from internet
May 09 2020 17:05:32: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:05:35: %ASA-5-502103: User priv level changed: Uname: enable_15 From: 1 To: 15
May 09 2020 17:05:35: %ASA-5-111008: User 'ASA_priv1' executed the 'enable' command.
May 09 2020 17:05:37: %ASA-7-609001: Built local-host internet:10.197.164.22
May 09 2020 17:05:37: %ASA-6-302013: Built outbound TCP connection 115 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/4236 (10.197.164.28/4236)
May 09 2020 17:05:37: %ASA-7-111009: User 'enable_15' executed cmd: show curpriv
May 09 2020 17:05:37: %ASA-6-302014: Teardown TCP connection 115 for internet:10.197.164.22/49
to identity:10.197.164.28/4236 duration 0:00:00 bytes 82 TCP Reset-I from internet
May 09 2020 17:05:37: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:05:44: %ASA-7-609001: Built local-host internet:10.197.164.22
May 09 2020 17:05:44: %ASA-6-302013: Built outbound TCP connection 116 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/27478
(10.197.164.28/27478)
May 09 2020 17:05:44: %ASA-5-111007: Begin configuration: 10.65.81.163 reading from terminal
May 09 2020 17:05:44: %ASA-5-111008: User 'enable_15' executed the 'configure terminal' command.
```



```
May 09 2020 17:05:44: %ASA-5-111010: User 'enable_15', running 'CLI' from IP 10.65.81.163,
executed 'configure terminal'
```

注意：如果在ASA上配置了通过TACACS的命令授权，则当AAA服务器无法访问时，必须将“local”作为回退。

这是因为命令授权适用于所有ASA会话（串行控制台、ssh、telnet），即使没有为串行控制台配置身份验证也是如此。在AAA服务器无法访问且用户“enable_15”不存在于本地数据库的情况下，管理员会收到以下错误：

回退授权。用户名“enable_15”不在LOCAL数据库中
命令授权失败

ASA日志：

```
%ASA-4-409023: Attempting AAA Fallback method LOCAL for Authentication request for user cisco :
Auth-server group ISE unreachable
%ASA-6-113012: AAA user authentication Successful : local database : user = cisco
%ASA-4-409023: Attempting AAA Fallback method LOCAL for Authentication request for user cisco :
Auth-server group ISE unreachable
%ASA-6-113004: AAA user authorization Successful : server = LOCAL : user = cisco
%ASA-6-113008: AAA transaction status ACCEPT : user = cisco
%ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163, Uname: cisco
%ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163, Uname: cisco
%ASA-6-605005: Login permitted from 10.65.81.163/65416 to internet:10.197.164.28/ssh for user
"cisco"
%ASA-5-502103: User priv level changed: Uname: enable_15 From: 1 To: 15
%ASA-5-111008: User 'cisco' executed the 'enable' command.
%ASA-4-409023: Attempting AAA Fallback method LOCAL for Authorization request for user enable_15
: Auth-server group ISE unreachable
%ASA-5-111007: Begin configuration: 10.65.81.163 reading from terminal
%ASA-5-111008: User 'enable_15' executed the 'configure terminal' command.
%ASA-5-111010: User 'enable_15', running 'CLI' from IP 10.65.81.163, executed 'configure
terminal'
%ASA-4-409023: Attempting AAA Fallback method LOCAL for Authorization request for user enable_15
: Auth-server group ISE unreachable
```

注意：使用上述配置时，命令授权将起作用，但命令记帐仍将显示用户名“enable_15”，而不是登录用户的实际用户名。管理员很难确定在ASA上执行哪个特定命令的用户。

要解决与“enable_15”用户有关的此记帐问题，请执行以下操作：

- 1.在ASA上执行授权命令中使用关键字“auto-enable”
- 2.在分配给已验证用户的TACACS外壳配置文件中，将默认权限和最大权限设置为15

实例4：修改队列极限缓冲区分配ASA身份验证、使用“auto-enable”的执行授权和通过AAA服务器配置的命令授权

在ASA上：

```
aaa authentication ssh console ISE LOCAL
aaa authorization exec authentication-server auto-enable
aaa authorization command ISE LOCAL
```

在AAA服务器上：

授权结果：

a)外壳配置文件

默认权限：15

最大权限：15

b)命令集

全部允许

管理员行为：

```
DMOUDGIL-M-N1D9:~ dmoudgil$ ssh ASA_priv1@10.197.164.28
ASA_priv1@10.197.164.28's password:
User ASA_priv1 logged in to ciscoasa
Logins over the last 1 days: 8. Last login: 17:13:05 IST May 9 2020 from 10.65.81.163
Failed logins since the last login: 0. Last failed login: 17:12:21 IST May 9 2020 from
10.65.81.163
Type help or '?' for a list of available commands.
ciscoasa# show curpriv
Username : ASA_priv1
Current privilege level : 15
Current Mode/s : P_PRIV
ciscoasa# configure terminal
ciscoasa(config)#
```

ASA日志：

```
May 09 2020 17:40:04: %ASA-6-113004: AAA user authentication Successful : server = 10.197.164.22
: user = ASA_priv1
May 09 2020 17:40:04: %ASA-6-302013: Built outbound TCP connection 298 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/57617
(10.197.164.28/57617)
May 09 2020 17:40:04: %ASA-6-113004: AAA user authorization Successful : server = 10.197.164.22
: user = ASA_priv1
May 09 2020 17:40:04: %ASA-6-113008: AAA transaction status ACCEPT : user = ASA_priv1
May 09 2020 17:40:04: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Username: ASA_priv1
May 09 2020 17:40:04: %ASA-6-611101: User authentication succeeded: IP address: 10.65.81.163,
Username: ASA_priv1
May 09 2020 17:40:04: %ASA-6-605005: Login permitted from 10.65.81.163/49598 to
internet:10.197.164.28/ssh for user "ASA_priv1"
May 09 2020 17:40:04: %ASA-6-302014: Teardown TCP connection 297 for internet:10.197.164.22/49
to identity:10.197.164.28/6083 duration 0:00:00 bytes 67 TCP Reset-I from internet
May 09 2020 17:40:04: %ASA-7-609001: Built local-host internet:139.59.219.101
May 09 2020 17:40:04: %ASA-6-302015: Built outbound UDP connection 299 for
internet:139.59.219.101/123 (139.59.219.101/123) to mgmt-gateway:192.168.100.4/123
(10.197.164.28/195)
May 09 2020 17:40:04: %ASA-6-302014: Teardown TCP connection 298 for internet:10.197.164.22/49
to identity:10.197.164.28/57617 duration 0:00:00 bytes 61 TCP Reset-I from internet
May 09 2020 17:40:04: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:40:09: %ASA-7-609001: Built local-host internet:10.197.164.22
May 09 2020 17:40:09: %ASA-6-302013: Built outbound TCP connection 300 for
internet:10.197.164.22/49 (10.197.164.22/49) to identity:10.197.164.28/4799 (10.197.164.28/4799)
May 09 2020 17:40:09: %ASA-7-111009: User 'ASA_priv1' executed cmd: show curpriv
May 09 2020 17:40:09: %ASA-6-302014: Teardown TCP connection 300 for internet:10.197.164.22/49
```

```
to identity:10.197.164.28/4799 duration 0:00:00 bytes 82 TCP Reset-I from internet
May 09 2020 17:40:09: %ASA-7-609002: Teardown local-host internet:10.197.164.22 duration 0:00:00
May 09 2020 17:40:14: %ASA-5-111007: Begin configuration: 10.65.81.163 reading from terminal
May 09 2020 17:40:14: %ASA-5-111008: User 'ASA_priv1' executed the 'configure terminal' command.
May 09 2020 17:40:14: %ASA-5-111010: User 'ASA_priv1', running 'CLI' from IP 10.65.81.163,
executed 'configure terminal'
```

观察结果:

- 1.通过AAA服务器执行身份验证和执行授权
- 2.执行授权管理为身份验证配置的控制台连接 (ssh、telnet和enable) 的所有请求的用户权限

注意： 这不包括到ASA的串行连接

- 3.命令授权由AAA服务器使用命令“aaa authorization command ISE LOCAL”执行
- 4.当用户通过AAA服务器上配置的TACACS+凭证登录ASA时，用户将获得AAA服务器的权限15，从而登录到权限模式
- 5.使用上述配置时，用户无需输入使能密码，用户“enable_15”也无需在ASA或AAA服务器上配置。
6. AAA服务器现在将报告来自登录用户的实际用户名的命令授权请求

相关信息

以下是一些与ASA的AAA设备管理相关的文档供参考：

<https://community.cisco.com/t5/security-documents/cisco-ise-device-administration-prescriptive-deployment-guide/ta-p/3738365#toc-h1d--1046199281>

<https://www.cisco.com/c/en/us/support/docs/security/identity-services-engine/200207-ISE-2-0-ASA-CLI-TACACS-Authentication.pdf>