

目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[背景信息](#)

[示例TACACS设置](#)

[示例HTTPS配置](#)

[命令由在WAAS Express/APPNAV XE的CM负责通过HTTP](#)

[配置模式CLIs](#)

[EXEC模式CLIs](#)

[WAASX -状态](#)

[WAASX -配置](#)

[WAASX -统计信息](#)

[注册](#)

[AppNav XE](#)

[故障排除](#)

[在WAAS中央管理器CLI](#)

[从浏览器的测验HTTPS访问](#)

[调试在WAAS Express路由器](#)

简介

本文提供配置广域应用程序(WAAS) Express/APPNAV XE细节使用终端访问控制器访问控制系统 (TACACS)和验证、授权和认证的(AAA) authorization命令。

先决条件

要求

Cisco 建议您了解以下主题：

- Cisco WAAS
- AAA授权
- TACACS

使用的组件

本文档中的信息基于以下软件和硬件版本：

- WAAS 6.1.1x
- 2900路由器
- IOS Versoin 15.2(4)M3

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。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

背景信息

WAAS中央管理器要求安全壳SSH和安全HTTPS为了访问WAAS Express和APPNAV - XE路由器。

安全壳SSH使用初始配置/registratoin。

HTTPS使用持续的配置和监视。

通常HTTPS和AAA配置的组合在设备防止中央管理器正确通信用这些设备。

示例TACACS设置

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa
authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-
Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST
group AAA-Servers
```

示例HTTPS配置

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa
authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-
Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST
group AAA-Servers
```

命令由在WAAS Express/APPNAV XE的CM负责通过HTTP

这是中央管理器在远程设备需要为了能运作命令的列表。

配置模式CLIs

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa
authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-
Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST
group AAA-Servers
```

EXEC模式CLIs

WAASX -状态

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa
authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-
Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST
group AAA-Servers
```

WAASX -配置

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa
```

```
authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST group AAA-Servers
```

WAASX -统计信息

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST group AAA-Servers
```

注册

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST group AAA-Servers
```

AppNav XE

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST group AAA-Servers
```

故障排除

在终端设备的不正确AAA或HTTP配置在注册和状态更新失败方面能导致失败。

注意：简单方法测试，如果有授权问题将设置一本地WAAS用户、本地AAA认证和IP HTTP验证本地。如果此测验配置工作含义您可能有与您的远程用户authorization命令的一个问题。

在WAAS中央管理器CLI

确认您能从CM CLI的SSH到远程设备。

```
aaa new-model!!aa group server tacacs+ tacacsgroup server name server1 server name server2 aaa authentication login AUTH group AAA-Serversaaa authorization commands 1 PRIV1 group AAA-Serversaaa authorization commands 15 PRIV15 group AAA-Serversaaa authorization exec AUTHLIST group AAA-Servers
```

启用在CM的cms调试并且在注册时查看cms.log和waasx-audit.log文件，推出设置和统计数据收集。

```
# debug cms waasx-regis# debug cms router-config# debug cms stats(config)# logging disk priority 7  
# cd errorlog  
# type-tail cms.log follow# type-tail waasx-audit.log follow
```

示例日志条目，当CM不能推送命令到WAAS捷运公司或AppNav XE。

```
05/27/2016 00:14:03.760 [I] cdm(RtrSync-40) Configuration commands failed on the device
```

失败的示例显示库存命令

[Home](#) [Exec](#) [Configure](#)

Command

Output

```
Command base-URL was: /level/15/exec/-  
Complete URL was: /level/15/exec/-/show/inv/CR  
Command was: show inv
```

```
Command authorization failed.
```

调试在WAAS Express路由器

#debug AAA授权

成功Running命令

```
Jul 5 07:09:19.161: AAA/AUTHOR/TAC+: (2935402750): user=waasx  
Jul 5 07:09:19.161: AAA/AUTHOR/TAC+: (2935402750): send AV service=shell  
Jul 5 07:09:19.161: AAA/AUTHOR/TAC+: (2935402750): send AV cmd=show  
Jul 5 07:09:19.161: AAA/AUTHOR/TAC+: (2935402750): send AV cmd-arg=vrf  
Jul 5 07:09:19.161: AAA/AUTHOR/TAC+: (2935402750): send AV cmd-arg=  
Jul 5 07:09:19.365: AAA/AUTHOR (2935402750): Post authorization status = PASS_ADD
```

验证失败

```
Jul 5 07:08:32.485: AAA/AUTHOR/TAC+: (819547031): user=waasx  
Jul 5 07:08:32.485: AAA/AUTHOR/TAC+: (819547031): send AV service=shell  
Jul 5 07:08:32.485: AAA/AUTHOR/TAC+: (819547031): send AV cmd=show  
Jul 5 07:08:32.485: AAA/AUTHOR/TAC+: (819547031): send AV cmd-arg=inventory  
Jul 5 07:08:32.485: AAA/AUTHOR/TAC+: (819547031): send AV cmd-arg=  
Jul 5 07:08:32.685: AAA/AUTHOR (819547031): Post authorization status = FAIL
```