

# Cisco J تازاي تمالا تايوتسم ورم اوألا ضي وفت Secure UNIX

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## عمدق مل

(AAA) ةبساحم ل او ضي وفت ل او ةقداصم ل ما دختس ل ةي فيك لوح تامولعم دن تسم ل اذه مدقي رموألا ي ف مكحتلا و ةيزك رمل ل مكحتلا ةرشقل

## ةيساس أالا تابل طت مل

### تابل طت مل

دن تسم ل اذهل ةصاخ تابل طت مل دجوت ال

### عمدختس مل تانوك مل

ةيلالاتل ةي دام ل تانوك مل او جماربل ل تارادصل ل دن تسم ل اذه ي ف ةدراول تامولعم ل دن تسم ل

• ش دخال تارادصل ل او Cisco نم 12.0(5)T تارادصل ل IOS® جم انرب

• Cisco Secure J UNIX 2.3(6)

ةصاخ ةي لمعم ةئي ب ي ف ةدوجوم ل ةزهجال نم دن تسم ل اذه ي ف ةدراول تامولعم ل ءاشن ل مت

تيناك اذا (يضا رتفا) حوسم نيوكتب دنتسمل اذ ي ف ةمدختسُمل ا ةزهجال ا عي مج تادب رما يال لم تحملا ري ثأتلل كمهف نم دكأتف ، ةرشابم كتكبش

## تاجال طصالا

تاجال طصالا لوح تامول عملما نم ديزم يلعل لوصحلل ةينقتللا Cisco تاجيملت تاجال طصالا عجار . تادنتسمللا

## AAA قفدت جذومن

| Cisco Secure (مداخ AAA)  | Cisco نم (AAA لي مع) IOS جم انرب  |
|--|---|
| <pre>user=fred { password=des }</pre>                                      | <pre>aaa authentication login default group tacacs+ local</pre>                                       |
| <pre>service-shell { set priv-level=x }</pre>                              | <pre>aaa authorization exec default group tacacs+ local</pre>   |
|  | (هاندأ تاظحالملا عجار) x يوتسم EXEC رم أ  |
| <pre>service=shell { default cmd=(allowed/deny) رطحي cmd=x cmd=y{ }}</pre> | <pre>aaa authorization commands # default \ group tacacs none aaa authorization config-commands</pre> |
| <pre>= des "*****" 15</pre>  | <pre>enable secretaaa authentication enable default \ group tacacs+ enable</pre>                      |

## زايتمالا تايتوتسم

هجوملا يلعل رماو تايتوتسم ةثالث كانه ، يضا رتفا لكشب

- جورخلا ليچستو ةدعاسم وجورخو نيكم تولى طعت رماو نمضتي -0 زايتمالا يوتسم
- شح ةلاسرديدخت جاحسمللا ي ف رما لمعتسم لك نمضتي -1 يوتسم زايتما
- شح ةلاسرديدخت جاحسمللا ي ف رما enable-level لك نمضتي -15 يوتسم زايتما

رمأ اذه عم ىوتسم زايتما نيب لوح رمأ تلقن عيطتسي تنأ

```
privilege exec level priv-1v1 command
```

## مكحتلا ةدحو ذفنم ةقداصم

ءاطخأل احيصت فرعم ذيفنت متي ىتح ةزيكم مكحتلا ةدحو ذفنم ضيوفت ةفاضل متت مل دي ق مكحتلا ةدحو ذفنم ضيوفت نوكي .(طقف [نولجسملا عالملا](#)) [CSCdi82030](#) ن Cisco مدختسملل ناك اذا .دصق نود هجوملا نم هل فق ةيلامتحأ ليلقتل يضارتفا لكشب فاقيل ال اعف سيل مكحتلا ةدحو ذفنم ضيوفت نإف ،مكحتلا ةدحو ربع هجوملا ىلإ يلعلف لوصو ةدحو تلغش عيطتسي تنأ ،تقبط نوكي [CSCdi82030](#) id قب cisco ثيح روصل ،امهم .ةياغلل مكحتلل ةفرط ةدحو ليوخت aaa يفخملا رمأل عم 0 طخ تحت ليوخت ءانيم مكحتلل ةفرط

## Cisco نم نآل مدختسملل فيرعت فلم

مدختسملل فيرعت فلم نم ةني ع تاجخملل هذه ضرعت

```
# ./ViewProfile -p 9900 -u fred
User Profile Information
  user = fred{
  profile_id = 189
  profile_cycle = 1
  password = clear "*****"
  privilege = clear "*****" 15
  service=shell {
    cmd=show {
      permit "users"
    }
  }
}
```

## هجوملا نيوكت

Partial router configuration:

```
aaa new-model
aaa authentication login default group tacacs+ local
aaa authentication enable default group tacacs+ none
aaa authorization exec default group tacacs+ none
aaa authorization commands 1 default group tacacs+ none
tacacs-server host 172.18.124.113
tacacs-server key cisco
```

# جارخإل ا ج ذومن

ةفونكامل ا تارابتعالا ببسب نيرطس يف ةفوفلم تاخرملا ضعب نأ طحال

## مدختسمل ا طاقتال - AAA ةسلج

```
<#root>
telnet 10.32.1.64
Trying 10.32.1.64...
Connected to 10.32.1.64.
Escape character is '^]'.

User Access Verification

Username: fred
Password:

vpn-2503>
show users

Line          User           Host(s)        Idle           Location
* 2 vty 0     fred           0 con 0       idle           00:00:51
                idle           00:00:00      rtp-cherry.cisco.com

Interface      User           Mode           Idle           Peer Address
                vpn-2503>
                enable
                Password:
                vpn-2503#
```

## ححصت Cisco IOS - AAA ةسلج

```
<#root>
vpn-2503#
show debug

General OS:
TACACS access control debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
vpn-2503#

terminal monitor

vpn-2503#
```

*!--- In this capture, AAA authentication first tries the TACACS+ !--- server (and goes to local authent*

aaa authentication login default group tacacs+ local

.  
\*Mar 15 18:21:25: AAA: parse name=tty3 idb type=-1 tty=-1  
\*Mar 15 18:21:25: AAA: name=tty3 flags=0x11 type=5 shelf=0 slot=0 adapter=0  
port=3 channel=0  
\*Mar 15 18:21:25: AAA/MEMORY: create\_user (0x524528) user='' ruser='' port='tty3'  
rem\_addr='172.18.124.113' authen\_type=ASCII service=LOGIN priv=1  
\*Mar 15 18:21:25: AAA/AUTHEN/START (4191717920): port='tty3' list=''  
action=LOGIN service=LOGIN  
\*Mar 15 18:21:25: AAA/AUTHEN/START (4191717920): using "default" list  
\*Mar 15 18:21:25: AAA/AUTHEN/START (4191717920): Method=tacacs+ (tacacs+)

*!--- Test TACACS+ for user authentication.*

\*Mar 15 18:21:25: TAC+: send AUTHEN/START packet ver=192 id=4191717920  
\*Mar 15 18:21:25: TAC+: Using default tacacs server-group "tacacs+" list.  
\*Mar 15 18:21:25: TAC+: Opening TCP/IP to 172.18.124.113/49 timeout=5  
\*Mar 15 18:21:25: TAC+: Opened TCP/IP handle 0x5475C8 to 172.18.124.113/49  
\*Mar 15 18:21:25: TAC+: 172.18.124.113 (4191717920) AUTHEN/START/LOGIN/ASCII queued  
\*Mar 15 18:21:25: TAC+: (4191717920) AUTHEN/START/LOGIN/ASCII processed  
\*Mar 15 18:21:25: TAC+: ver=192 id=4191717920 received AUTHEN status = GETUSER  
\*Mar 15 18:21:25: AAA/AUTHEN (4191717920): status = GETUSER  
\*Mar 15 18:21:27: AAA/AUTHEN/CONT (4191717920): continue\_login (user='(undef)')  
\*Mar 15 18:21:27: AAA/AUTHEN (4191717920): status = GETUSER  
\*Mar 15 18:21:27: AAA/AUTHEN (4191717920): Method=tacacs+ (tacacs+)  
\*Mar 15 18:21:27: TAC+: send AUTHEN/CONT packet id=4191717920  
\*Mar 15 18:21:27: TAC+: 172.18.124.113 (4191717920) AUTHEN/CONT queued  
\*Mar 15 18:21:27: TAC+: (4191717920) AUTHEN/CONT processed  
\*Mar 15 18:21:27: TAC+: ver=192 id=4191717920 received AUTHEN status = GETPASS  
\*Mar 15 18:21:27: AAA/AUTHEN (4191717920): status = GETPASS  
\*Mar 15 18:21:29: AAA/AUTHEN/CONT (4191717920): continue\_login (user='fred')  
\*Mar 15 18:21:29: AAA/AUTHEN (4191717920): status = GETPASS  
\*Mar 15 18:21:29: AAA/AUTHEN (4191717920): Method=tacacs+ (tacacs+)  
\*Mar 15 18:21:29: TAC+: send AUTHEN/CONT packet id=4191717920  
\*Mar 15 18:21:29: TAC+: 172.18.124.113 (4191717920) AUTHEN/CONT queued  
\*Mar 15 18:21:29: TAC+: (4191717920) AUTHEN/CONT processed  
\*Mar 15 18:21:29: TAC+: ver=192 id=4191717920 received AUTHEN status = PASS  
\*Mar 15 18:21:29: AAA/AUTHEN (4191717920): status = PASS

*!--- TACACS+ passes user authentication. There is a check !--- to see if shell access is permitted for*

aaa authorization exec default group tacacs+ local

.  
\*Mar 15 18:21:29: TAC+: Closing TCP/IP 0x5475C8 connection to 172.18.124.113/49  
\*Mar 15 18:21:29: tty3 AAA/AUTHOR/EXEC (3409614729): Port='tty3' list='' service=EXEC  
\*Mar 15 18:21:29: AAA/AUTHOR/EXEC: tty3 (3409614729) user='fred'  
\*Mar 15 18:21:29: tty3 AAA/AUTHOR/EXEC (3409614729): send AV service=shell  
\*Mar 15 18:21:29: tty3 AAA/AUTHOR/EXEC (3409614729): send AV cmd\*  
\*Mar 15 18:21:29: tty3 AAA/AUTHOR/EXEC (3409614729): found list "default"  
\*Mar 15 18:21:29: tty3 AAA/AUTHOR/EXEC (3409614729): Method=tacacs+ (tacacs+)  
\*Mar 15 18:21:29: AAA/AUTHOR/TAC+: (3409614729): user=fred  
\*Mar 15 18:21:29: AAA/AUTHOR/TAC+: (3409614729): send AV service=shell  
\*Mar 15 18:21:29: AAA/AUTHOR/TAC+: (3409614729): send AV cmd\*  
\*Mar 15 18:21:29: TAC+: using previously set server 172.18.124.113 from group tacacs+  
\*Mar 15 18:21:29: TAC+: Opening TCP/IP to 172.18.124.113/49 timeout=5  
\*Mar 15 18:21:29: TAC+: Opened TCP/IP handle 0x547A10 to 172.18.124.113/49  
\*Mar 15 18:21:29: TAC+: Opened 172.18.124.113 index=1  
\*Mar 15 18:21:29: TAC+: 172.18.124.113 (3409614729) AUTHOR/START queued  
\*Mar 15 18:21:29: TAC+: (3409614729) AUTHOR/START processed

```
*Mar 15 18:21:29: TAC+: (3409614729): received author response status = PASS_ADD
*Mar 15 18:21:29: TAC+: Closing TCP/IP 0x547A10 connection to 172.18.124.113/49
*Mar 15 18:21:29: AAA/AUTHOR (3409614729): Post authorization status = PASS_ADD
*Mar 15 18:21:29: AAA/AUTHOR/EXEC: Authorization successful
*Mar 15 18:21:32: tty3 AAA/AUTHOR/CMD (4185871454): Port='tty3' list='' service=CMD
```

*!--- TACACS+ passes exec authorization and wants to perform the !---*

**show users**

command, as configured in !---

```
aaa authorization commands 1 default group tacacs+ none
```

.

```
*Mar 15 18:21:32: AAA/AUTHOR/CMD: tty3 (4185871454) user='fred'
*Mar 15 18:21:32: tty3 AAA/AUTHOR/CMD (4185871454): send AV service=shell
*Mar 15 18:21:32: tty3 AAA/AUTHOR/CMD (4185871454): send AV cmd=show
*Mar 15 18:21:32: tty3 AAA/AUTHOR/CMD (4185871454): send AV cmd-arg=users
*Mar 15 18:21:32: tty3 AAA/AUTHOR/CMD (4185871454): send AV cmd-arg=
*Mar 15 18:21:32: tty3 AAA/AUTHOR/CMD (4185871454): found list "default"
*Mar 15 18:21:32: tty3 AAA/AUTHOR/CMD (4185871454): Method=tacacs+ (tacacs+)
*Mar 15 18:21:32: AAA/AUTHOR/TAC+: (4185871454): user=fred
*Mar 15 18:21:32: AAA/AUTHOR/TAC+: (4185871454): send AV service=shell
*Mar 15 18:21:32: AAA/AUTHOR/TAC+: (4185871454): send AV cmd=show
*Mar 15 18:21:32: AAA/AUTHOR/TAC+: (4185871454): send AV cmd-arg=users
*Mar 15 18:21:32: AAA/AUTHOR/TAC+: (4185871454): send AV cmd-arg=
*Mar 15 18:21:32: TAC+: using previously set server 172.18.124.113 from group tacacs+
*Mar 15 18:21:32: TAC+: Opening TCP/IP to 172.18.124.113/49 timeout=5
*Mar 15 18:21:32: TAC+: Opened TCP/IP handle 0x54F26C to 172.18.124.113/49
*Mar 15 18:21:32: TAC+: Opened 172.18.124.113 index=1
*Mar 15 18:21:32: TAC+: 172.18.124.113 (4185871454) AUTHOR/START queued
*Mar 15 18:21:33: TAC+: (4185871454) AUTHOR/START processed
*Mar 15 18:21:33: TAC+: (4185871454): received author response status = PASS_ADD
*Mar 15 18:21:33: TAC+: Closing TCP/IP 0x54F26C connection to 172.18.124.113/49
*Mar 15 18:21:33: AAA/AUTHOR (4185871454): Post authorization status = PASS_ADD
```

*!--- TACACS+ passes command authorization and wants to !---* get into

**enable**

mode, as configured in !---

```
aaa authentication enable default group tacacs+ enable
```

.

```
*Mar 15 18:21:34: AAA/MEMORY: dup_user (0x523E58) user='fred' ruser=''
port='tty3' rem_addr='172.18.124.113' authen_type=ASCII service=ENABLE
priv=15 source='AAA dup enable'
*Mar 15 18:21:34: AAA/AUTHEN/START (125091438): port='tty3' list=''
action=LOGIN service=ENABLE
*Mar 15 18:21:34: AAA/AUTHEN/START (125091438): using "default" list
*Mar 15 18:21:34: AAA/AUTHEN/START (125091438): Method=tacacs+ (tacacs+)
*Mar 15 18:21:34: TAC+: send AUTHEN/START packet ver=192 id=125091438
*Mar 15 18:21:34: TAC+: Opening TCP/IP to 172.18.124.113/49 timeout=5
*Mar 15 18:21:34: TAC+: Opened TCP/IP handle 0x54D080 to 172.18.124.113/49
*Mar 15 18:21:34: TAC+: Opened 172.18.124.113 index=1
*Mar 15 18:21:34: TAC+: 172.18.124.113 (125091438) AUTHEN/START/LOGIN/ASCII queued
*Mar 15 18:21:34: TAC+: (125091438) AUTHEN/START/LOGIN/ASCII processed
*Mar 15 18:21:34: TAC+: ver=192 id=125091438 received AUTHEN status = GETPASS
*Mar 15 18:21:34: AAA/AUTHEN (125091438): status = GETPASS
*Mar 15 18:21:37: AAA/AUTHEN/CONT (125091438): continue_login (user='fred')
```

```

*Mar 15 18:21:37: AAA/AUTHEN (125091438): status = GETPASS
*Mar 15 18:21:37: AAA/AUTHEN (125091438): Method=tacacs+ (tacacs+)
*Mar 15 18:21:37: TAC+: send AUTHEN/CONT packet id=125091438
*Mar 15 18:21:37: TAC+: 172.18.124.113 (125091438) AUTHEN/CONT queued
*Mar 15 18:21:37: TAC+: (125091438) AUTHEN/CONT processed
*Mar 15 18:21:37: TAC+: ver=192 id=125091438 received AUTHEN status = PASS
*Mar 15 18:21:37: AAA/AUTHEN (125091438): status = PASS
*Mar 15 18:21:37: TAC+: Closing TCP/IP 0x54D080 connection to 172.18.124.113/49
*Mar 15 18:21:37: AAA/MEMORY: free_user (0x523E58) user='fred' ruser=''
port='tty3' rem_addr='172.18.124.113' authen_type=ASCII service=ENABLE priv=15

```

*!--- TACACS+ passes enable authentication.*

## Cisco Secure UNIX ءاطخأ حىحصت - ةسلج AAA

<#root>

!

*--- In this capture, AAA authentication first tries the TACACS+ !--- server (and goes to local authentication)*

```
aaa authentication login default group tacacs+ local
```

.

```

Sep 7 07:22:32 rtp-cherry CiscoSecure: DEBUG - AUTHENTICATION
START request (bace1fbf)
Sep 7 07:22:32 rtp-cherry CiscoSecure: DEBUG -
Sep 7 07:22:32 rtp-cherry User Access Verification

```

*!--- Test TACACS+ for user authentication:*

```

Sep 7 07:22:32 rtp-cherry CiscoSecure: DEBUG - Username:
Sep 7 07:22:33 rtp-cherry CiscoSecure: DEBUG - AUTHENTICATION
CONTINUE request (bace1fbf)
Sep 7 07:22:33 rtp-cherry CiscoSecure: DEBUG - Password:
Sep 7 07:22:35 rtp-cherry CiscoSecure: DEBUG - AUTHENTICATION
CONTINUE request (bace1fbf)
Sep 7 07:22:35 rtp-cherry CiscoSecure: DEBUG - Authentication -
LOGIN successful; [NAS=10.32.1.64, Port=tty2, User=fred, Priv=1]

```

*!--- TACACS+ passes user authentication. There is a check !--- to see if shell access is permitted for*

```
aaa authorization exec default group tacacs+ local
```

.

```

Sep 7 07:22:35 rtp-cherry CiscoSecure: DEBUG -
Sep 7 07:22:36 rtp-cherry CiscoSecure: DEBUG - AUTHORIZATION request (9ad05c71)
Sep 7 07:22:36 rtp-cherry CiscoSecure: DEBUG - Authorization - Request authorized;
[NAS = 10.32.1.64, user = fred, port = tty2, input: service=shell cmd* output: ]

```

*!--- TACACS+ passes exec authorization and wants to perform the !---*

```
show users
```

command, as configured in !---

```
aaa authorization commands 1 default group tacacs+ none
```

```

Sep  7 07:22:38 rtp-cherry CiscoSecure: DEBUG - AUTHORIZATION request (563ba541)
Sep  7 07:22:38 rtp-cherry CiscoSecure: DEBUG - Authorization - Request authorized;
[NAS = 10.32.1.64, user = fred, port = tty2, input: service=shell cmd=show
cmd-arg=users cmd-arg= output: ]

```

*!--- TACACS+ passes command authorization and wants to !--- get into*

**enable**

mode, as configured in !---

```
aaa authentication enable default group tacacs+ enable
```

```

Sep  7 07:22:40 rtp-cherry CiscoSecure: DEBUG - AUTHENTICATION
START request (f7e86ad4)

```

```
Sep  7 07:22:40 rtp-cherry CiscoSecure: DEBUG - Password:
```

```

Sep  7 07:22:41 rtp-cherry CiscoSecure: DEBUG - AUTHENTICATION
CONTINUE request (f7e86ad4)

```

```

Sep  7 07:22:41 rtp-cherry CiscoSecure: DEBUG - Authentication - ENABLE successful;
[NAS=10.32.1.64, Port=tty2, User=fred, Priv=15]

```

*!--- TACACS+ passes enable authentication.*

## نم آل Cisco فيرعت فلم ىلع ةمدقتم ةلثمأ

|  |   |
|--|---|
| <p>اذه حمسي<br/>يأل فيصوتلا<br/>نوكي مدختسم<br/>ةومجم يف اوضع<br/>"LANadmins"<br/>لوخدلا ليحستب<br/>لاخدإو هجوم يف<br/>رغ. رم أوألا مظعم<br/>حومسم<br/>ني مدختسم لل<br/>تاريغت ارجاب<br/>نيوكت ىلع<br/>ةهأولا<br/>وأ، ةي لس لس لتلا<br/>تاريغت ارجاب<br/>AAA نيوكت ىلع<br/>مهنكمي ال كلذل<br/>ضيوفت ةلازا<br/>ليطعت وأ رمألا<br/>مداخ TACACS).</p> | <pre> group LANadmins{   service=shell {     cmd=interface{       permit "Ethernet *"       deny "Serial *"     }     cmd=aaa{       deny ".*"     }     cmd=tacacs-server{       deny ".*"     }   }   default cmd=permit } </pre> |
| <p>اذه يطعي<br/>أضاعأ فيصوتلا</p>  |   |



|   |  |
|---|--|
| <p>تازايتما هت عومجم<br/> يلع نيكمت<br/> دعاصلال لوجملا<br/> ةزهجأو Switch<br/> bostonrtr1 -<br/> زاهجو bostonrtr9<br/> متي 10.28.17.1<br/> عيجمجب حامسلا<br/> هذهل رمأوالا<br/> رصتقي .ةزهجالا<br/> ةزهجالا لوصولا<br/> يلع NYrouterX<br/> EXEC يوتسم<br/> ،طقف مدختسملل<br/> عيجمجب ضفرمتي و<br/> مت اذا رمأوالا<br/> ليوختلل اهبلط</p> | <pre> group Boston_Admins{     service=shell {         allow "10.28.17.1" ".*" ".*"         allow bostonswitch ".*" ".*"         allow "^bostonrtr[0-9]+" ".*" ".*"         set priv-lvl=15         default cmd=permit     }     service=shell {         allow "^ANYrouter[0-9]+" ".*" ".*"         set priv-lvl=1         default cmd=deny     } } </pre>       |
| <p>هذه عتمتت<br/> ةوعومجملا<br/> لوصولا ةيناكما<br/> عيجمجالا لمالكلا<br/> NY، تاهجوم<br/> لإ ةفاضلإاب<br/> لمالكلا لوصولا<br/> NY هجوم لىل<br/> يلع يسيرلا<br/> تاهجاوالا<br/> 0/x ةيلسلسلا<br/> ظحال Serial 1/x و<br/> ني مدختسملل أن<br/> اضيأ مهيدل<br/> يلع ةردقلا<br/> يلع AAA لىطعت<br/> يسيرلا هجوملا</p>                         | <pre> group NY_wan_admins{     service=shell {         allow "^ANYrouter[0-9]+" ".*" ".*"         set priv-lvl=15         default cmd=permit     }     service=shell {         allow "^ANYcore\$" ".*" ".*"         default cmd=permit         cmd=interface{             permit "Serial 0/[0-9]+"             permit "Serial 1/[0-9]+"         }     } } </pre> |
| <p>مدختسملل اذه<br/> ةوعومجم ي ف وضع<br/> "NY_WAN_admins"<br/> هذه ثري و<br/> اذه .تازايتمالا<br/> اضيأ مدختسملل<br/> ةمك لىقلتي<br/> login as رورم<br/> ةمك لىقلتي<br/> ني عي</p>  | <pre> user bob{     password = des "*****"     privilege = des "*****" 15     member = NY_wan_admins } </pre>  |
| <p>اذه ممص<br/> لوجملا في صوتلا</p>   |  |

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| <p>Catalyst. حمسي<br/> ني مدخت سملل<br/> ة وومجم رماو اب<br/> ال . طقف ة ني عم<br/> نأ مهل حمسي<br/> 3/10 ءاني م زجعي<br/> (ءاني م ة طنش).<br/> لمعت س م حمسي<br/> VLAN ل ا ني عي نأ<br/> نوكي ءاني م<br/> نأ ريغ ، ل ا تنيع<br/> vlan ة وومجم رخأ لك<br/> ضفر رما</p> | <pre> group LAN_support {     service=shell {         default cmd = deny         cmd = set{             deny "port enable 3/10"             permit "port enable *"             deny "port disable 3/10"             permit "port disable *"             permit "port name *"             permit "port speed *"             permit "port duplex *"             permit "vlan [0-9]+ [0-9]+/[0-9]+"             deny ".*"         }         cmd = show{             permit ".*"         }         cmd = enable{             permit ".*"         }     } } </pre> |
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## ةلص تاذا تامول عم

- [Cisco نم نم آل ا UNIX تاچت نم معد](#)
- [Cisco Systems - تا دن ت سمل او ينقت ل ا معد ل ا](#)

