

سياسات الوصول عم

تمام العمل هذه نم تاعومجم ةدع وأ ةدحاو ةعومجم مادختساب لوصولاب مكحتال ةدعاق عاشنا متي

- ةهجول او ردصم (IP ناو نع)
- ةهجول او ردصم (ذفانم)
- (ةصصخم URL نيوانعو و تائفال ماظنل رفو ي) URL
- تاق يبطتال فاشتك ةزهجأ
- VLAN تاك بش
- قطانم

يلع ةدعاقال عيسوت ريغت ي، لوصولا ةدعاق ي ف ةمدختسملا تماملعمل ةعومجم ي لإ ادانتسا ةقللعمل دعاقول نم ةفلتخم تافلوت يلع ةوضلل دننتمسما اذه طلسي رعتستسملا راعشتسالا ةزهجأ يلع اهب ةطبترملا تاعسوتلاو (FMC) ةي لارديفلال تالاصتالا ةرادا ةدحوب

مادختساب (ACE) لوصولا ةمئاق رصانع ددع باسح ةي فيك FMC CLI

امك، (FMC) ةي ساسالا ةحوللا ةرادا ي ف مكحتال ةدحو نم لوصولا ةدعاق نيوكت رابتعالا ي ف عض ةروصلال ي ف حضوم وه

The screenshot shows the Cisco Firewall Management Center (FMC) interface. The main heading is 'Port-scan test' with a sub-heading 'Enter Description'. Below this, there are tabs for 'Rules', 'Security Intelligence', 'HTTP Responses', 'Logging', and 'Advanced'. The 'Rules' tab is active. The interface displays a table of rules under the 'Mandatory - Port-scan test (1-1)' section. The table has columns for #, Name, Source Zones, Dest Zones, Source Networks, Dest Networks, VLAN Tags, Users, Applicat..., Source Ports, Dest Ports, URLs, Source Dynamic Attributes, Destina... Dynamic Attributes, and Action. A single rule is listed with the name 'Rule 1', source zones 'Any', destination zones 'Any', source networks '10.1.1.1' and '10.2.2.2', destination networks '10.3.3.3' and '10.4.4.4', and an action of 'Allow'. The action is represented by a green circle with a white checkmark. Below the table, there is a message: 'There are no rules in this section. Add Rule or Add Category'.

لوصولاب مكحتال ةسياس ي ف ةدعاقال نيوكت

دعاق 8 ي ف تاعسوت ةدعاقال هذه نأ ظحالت، FTD CLI ي ف ةدعاقال هذه تيأر اذا

```

Firepower# show access-list
access-list cached ACL log flows: total 0, denied 0 (deny-flow-max 4096)
  alert-interval 300
access-list CSM_FW_ACL_ ; 14 elements; name hash: 0x4a59e3f3
access-list CSM_FW_ACL_ line 1 remark rule-id 9998: PREFILTER POLICY: Default Tunnel and Priority Policy
access-list CSM_FW_ACL_ line 2 remark rule-id 9998: RULE: DEFAULT TUNNEL ACTION RULE
access-list CSM_FW_ACL_ line 3 advanced permit ipinip any any rule-id 9998 (hitcnt=0) 0xf5b597d6
access-list CSM_FW_ACL_ line 4 advanced permit udp any eq 3544 any range 1025 65535 rule-id 9998 (hitcnt=0) 0x46d7839e
access-list CSM_FW_ACL_ line 5 advanced permit udp any range 1025 65535 any eq 3544 rule-id 9998 (hitcnt=0) 0xaf1d5aa5
access-list CSM_FW_ACL_ line 6 advanced permit 41 any any rule-id 9998 (hitcnt=0) 0x06095aba
access-list CSM_FW_ACL_ line 7 advanced permit gre any any rule-id 9998 (hitcnt=0) 0x52c7a066
access-list CSM_FW_ACL_ line 8 remark rule-id 268454922: ACCESS POLICY: Port-scan test - Mandatory
access-list CSM_FW_ACL_ line 9 remark rule-id 268454922: L7 RULE: Rule 1
access-list CSM_FW_ACL_ line 10 advanced permit tcp object-group FMC_INLINE_src_rule_268454922 object-group FMC_INLINE_dst_rule_268454922 eq www rule-id 268454922 (hitcnt=0) 0x46def508
access-list CSM_FW_ACL_ line 10 advanced permit tcp host 10.1.1.1 host 10.3.3.3 eq www rule-id 268454922 (hitcnt=0) 0x046f6a57
access-list CSM_FW_ACL_ line 10 advanced permit tcp host 10.1.1.1 host 10.4.4.4 eq www rule-id 268454922 (hitcnt=0) 0xeced82d1
access-list CSM_FW_ACL_ line 10 advanced permit tcp host 10.2.2.2 host 10.3.3.3 eq www rule-id 268454922 (hitcnt=0) 0x16cf481d
access-list CSM_FW_ACL_ line 10 advanced permit tcp host 10.2.2.2 host 10.4.4.4 eq www rule-id 268454922 (hitcnt=0) 0x9d998336
access-list CSM_FW_ACL_ line 11 advanced permit tcp object-group FMC_INLINE_src_rule_268454922 object-group FMC_INLINE_dst_rule_268454922 eq http rule-
access-list CSM_FW_ACL_ line 11 advanced permit tcp host 10.1.1.1 host 10.3.3.3 eq https rule-id 268454922 (hitcnt=0) 0x89163d78
access-list CSM_FW_ACL_ line 11 advanced permit tcp host 10.1.1.1 host 10.4.4.4 eq https rule-id 268454922 (hitcnt=0) 0x837a795d
access-list CSM_FW_ACL_ line 11 advanced permit tcp host 10.2.2.2 host 10.3.3.3 eq https rule-id 268454922 (hitcnt=0) 0x42a0ae77
access-list CSM_FW_ACL_ line 11 advanced permit tcp host 10.2.2.2 host 10.4.4.4 eq https rule-id 268454922 (hitcnt=0) 0x569b1e17
access-list CSM_FW_ACL_ line 12 remark rule-id 268453888: ACCESS POLICY: Port-scan test - Default
access-list CSM_FW_ACL_ line 13 remark rule-id 268453888: L4 RULE: DEFAULT ACTION RULE
access-list CSM_FW_ACL_ line 14 advanced deny ip any any rule-id 268453888 (hitcnt=0) 0x97aa021a
Firepower#

```

Expanding to 8 Rules.

perl رمال مادختساب لوصول عمائق رصانع ددع يف عسوتت يتلا ددع اقل نم ققحتلا كنكمي ددعومل لوصول يف مكحتلا ددعوب ةصاخلا (CLI) رمال رطس ةهجاو يف:

<#root>

perl /var/opt/CSCOpX/bin/access_rule_expansion_count.pl

root@firepower:/Volume/home/admin# perl /var/opt/CSCOpX/bin/access_rule_expansion_count.pl

Secure Firewall Management Center for VMware - v7.4.1 - (build 172)

Access Control Rule Expansion Computer

Enter FTD UUID or Name:

> 10.70.73.44

Secure Firewall Management Center for VMware - v7.4.1 - (build 172)

Access Control Rule Expansion Computer

Device:

UUID: 93cc359c-39be-11d4-9ae1-f2186cbddb11

Name: 10.70.73.44

Access Control Policy:

UUID: 005056B9-F342-0ed3-0000-292057792375

Name: Port-scan test

Description:

Intrusion Policies:

| UUID | NAME |

Date: 2024-Jul-17 at 06:51:55 UTC

NOTE: Computation is done on per rule basis. Count from shadow rules will not be applicable on device

Run "Rule Conflict Detection" tool on AC Policy for specified device to detect and optimise such rule

| UUID | NAME | COUNT

| 005056B9-F342-0ed3-0000-000268454919 | Rule 1 | 8

| TOTAL: 8

| Access Rule Elements Count on FTD: 14

>>> My JVM PID : 19417

ةومجمل لكذ نمضتوي و 14: FTD لىل لوصولا ةدعاق رصانع دمتعت :ةظحالمة لوصولا يف مكحتلا ةدعاقو (ةقبسملال ةيفصتلا) FTD دعاقو نم ةيضارتفالا اضيا ةيضارتفالا

FTD CLI يف ةيضارتفالا ةقبسملال ةيفصتلا دعاقو ةيؤر نكمي

```
firepower# show access-list
access-list cached ACL log flows: total 0, denied 0 (deny-flow-max 4096)
alert-interval 300
access-list CSM_FW_ACL; 14 elements; name hash: 0x4a69e3f3
access-list CSM_FW_ACL line 1 remark rule-id 9998: PREFILTER POLICY: Default Tunnel and Priority Policy
access-list CSM_FW_ACL line 2 remark rule-id 9998: RULE: DEFAULT TUNNEL ACTION RULE
access-list CSM_FW_ACL line 3 advanced permit ipinip any any rule-id 9998 (hitcnt=0) 0xf5b597d6
access-list CSM_FW_ACL line 4 advanced permit udp any eq 3544 any range 1025 65535 rule-id 9998 (hitcnt=0) 0x46d7839e
access-list CSM_FW_ACL line 5 advanced permit udp any range 1025 65535 any eq 3544 rule-id 9998 (hitcnt=0) 0xaf1d5aa5
access-list CSM_FW_ACL line 6 advanced permit 4l any any rule-id 9998 (hitcnt=0) 0x06095aba
access-list CSM_FW_ACL line 7 advanced permit gre any any rule-id 9998 (hitcnt=0) 0x52c7a866
access-list CSM_FW_ACL line 8 remark rule-id 268454922: ACCESS POLICY: Port-scan test - Mandatory
access-list CSM_FW_ACL line 9 remark rule-id 268454922: L7 RULE: Rule 1
access-list CSM_FW_ACL line 10 advanced permit tcp object-group FMC_INLINE_src_rule_268454922 object-group FMC_INLINE_dst_rule_268454922 eq www rule-id 268454922 (hitcnt=0) 0x46def508
access-list CSM_FW_ACL line 10 advanced permit tcp host 10.1.1.1 host 10.3.3.3 eq www rule-id 268454922 (hitcnt=0) 0x846f6a57
access-list CSM_FW_ACL line 10 advanced permit tcp host 10.1.1.1 host 10.4.4.4 eq www rule-id 268454922 (hitcnt=0) 0xeced82d1
access-list CSM_FW_ACL line 10 advanced permit tcp host 10.2.2.2 host 10.3.3.3 eq www rule-id 268454922 (hitcnt=0) 0x16cf481d
access-list CSM_FW_ACL line 10 advanced permit tcp host 10.2.2.2 host 10.4.4.4 eq www rule-id 268454922 (hitcnt=0) 0x9d098336
access-list CSM_FW_ACL line 11 advanced permit tcp object-group FMC_INLINE_src_rule_268454922 object-group FMC_INLINE_dst_rule_268454922 eq https rule-id 268454922 (hitcnt=0) 0x548058c2
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.1.1.1 host 10.3.3.3 eq https rule-id 268454922 (hitcnt=0) 0x89163d70
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.1.1.1 host 10.4.4.4 eq https rule-id 268454922 (hitcnt=0) 0x837a795d
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.2.2.2 host 10.3.3.3 eq https rule-id 268454922 (hitcnt=0) 0x42a8ae77
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.2.2.2 host 10.4.4.4 eq https rule-id 268454922 (hitcnt=0) 0x569b1e17
access-list CSM_FW_ACL line 12 remark rule-id 268453888: ACCESS POLICY: Port-scan test - Default
access-list CSM_FW_ACL line 13 remark rule-id 268453888: L4 RULE: DEFAULT ACTION RULE
access-list CSM_FW_ACL line 14 advanced deny ip any any rule-id 268453888 (hitcnt=0) 0x97aa021a
```

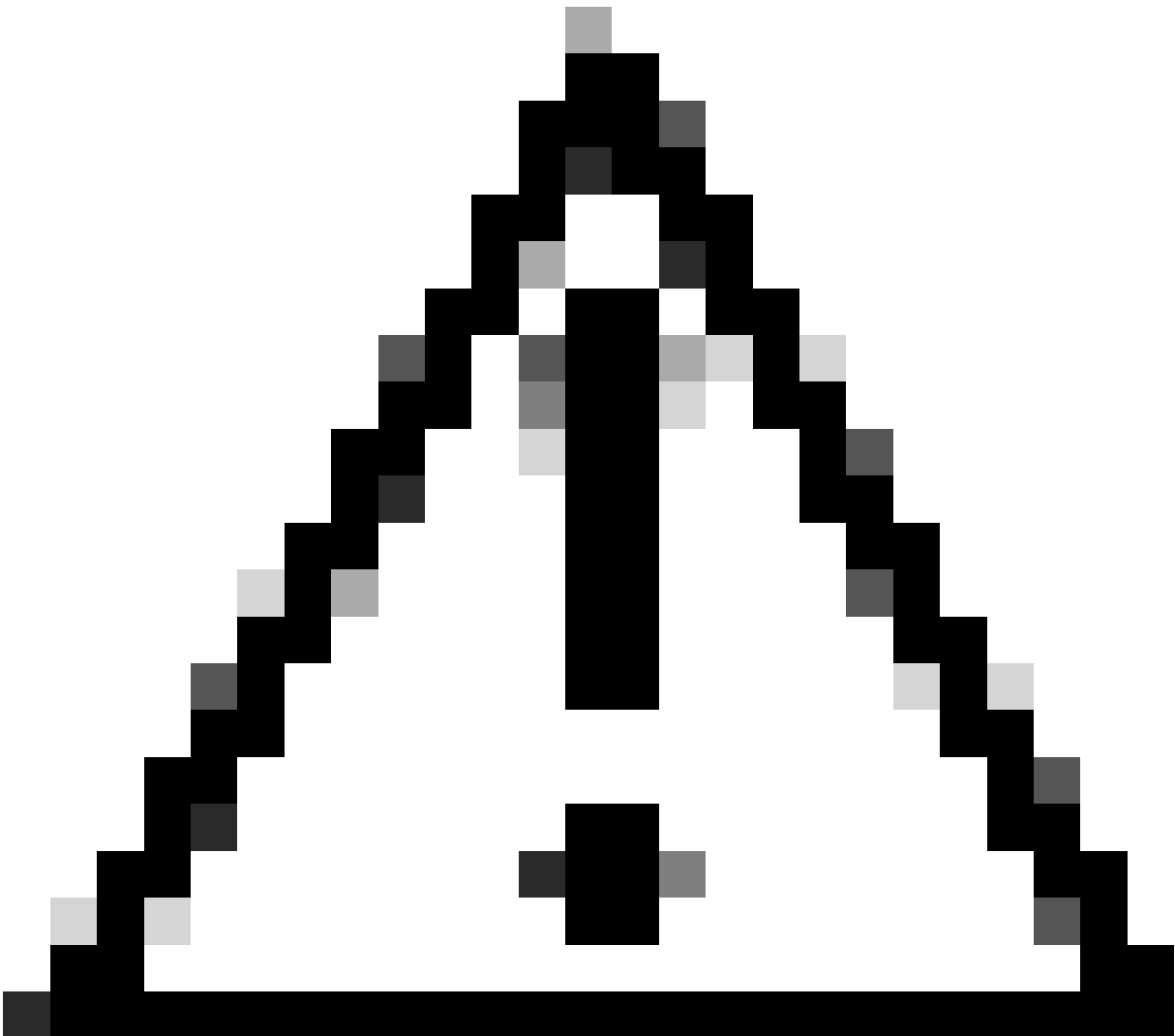
6 Default Pre-filter Rules.

High ACE ري شأت

- ةيزكرملا ةجالعملادحو وىوتسم عافترا ةظحالم نكمي.
- ةيلاللا ةركاذلا ةعس ةيؤر نكمي.
- زاهجالا ءطب ةظحالم نكمي.
- رشنلل لوطأ تقو /رشنلا تايلمع لشف.

(OGS) تانئاللا ةومجم شح نكي ممتي ىتم دي دحت

- زاهجالا صاخلا ACE دح ACE ددع زواجتي.
- OGS نكي ممت نا شح لعللاب ةيلاللا تسيلا زاهجالا صاخلا ةيزكرملا ةجالعملادحو.
- زاهجالا صاخلا ةيزكرملا ةجالعملادحو ىلع طغضلا نم ديزملا صرفي.
- جاتناللا مدع تاعاس ءانثأ هنكي ممتب مق.



نم ASP ةدعاق كرحمل تالماعملاب مازتلالال لىل لوصولا ةعومجم نيكمت عاجرلا :ريذحت
ببئجتل رايخلا اذه نيوكت مت . OGS نيكمت لب ق FTD ل (CLI) رماوأل رطس ةهجاو عضو
OGS نيكمت ءانثأ ةرشابم اهدهب ورشنللا ةيلمع ءانثأ رورملا ةكرح طوقس تالاح

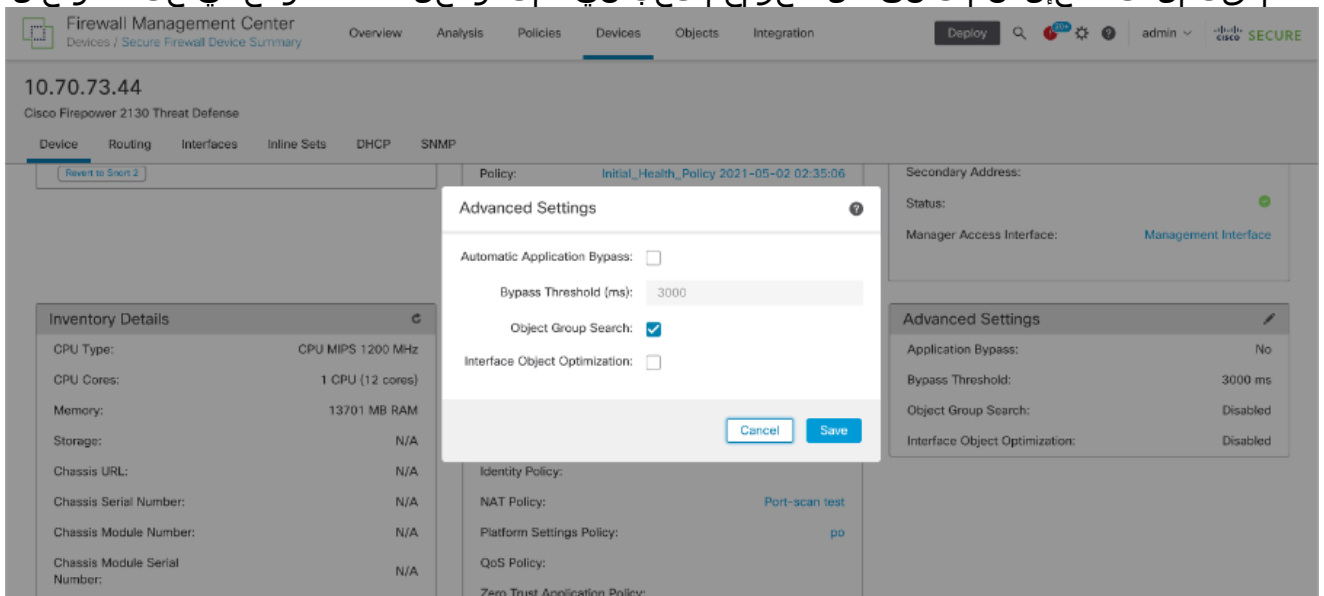
```
>  
>  
>  
>  
> asp rule-engine transactional-commit access-group  
>  
>  
>
```

تانئاك ةعومجم نع شحبلا نيكمت

ايلاح OGS نيكمت متي مل:

```
firepower#  
firepower#  
firepower#  
firepower# show run object-group-search  
firepower#  
firepower#  
firepower#
```

1. ةرادا > ةزهألا لىل لقتنا . FMC مكحتلا ةدحول (CLI) رماوأل رطس ةهجاو لىل لوخدلا لچس .
ةمدقتملا تادادعإلا نم تانئاكل ةعومجم شحب نيكمت . زاهال > FTD زاهج ديذحت > ةزهألا



2. رشنو ظرف قوف رقنا.

هحصلال نام ققحتلا

OGS: نيكمت لبق

```
Firepower# show access-list
access-list cached ACL log flows: total 0, denied 0 (deny-flow-max 4096)
  alert-interval 300
access-list CSM_FW_ACL ; 14 elements; name hash: 0x4a69e3f3
access-list CSM_FW_ACL line 1 remark rule-id 9998: PREFILTER POLICY: Default Tunnel and Priority Policy
access-list CSM_FW_ACL line 2 remark rule-id 9998: RULE: DEFAULT TUNNEL ACTION RULE
access-list CSM_FW_ACL line 3 advanced permit ipinip any any rule-id 9998 (hitcnt=0) 0xf5b597d6
access-list CSM_FW_ACL line 4 advanced permit udp any eq 3544 any range 1025 65535 rule-id 9998 (hitcnt=0) 0x46d7839e
access-list CSM_FW_ACL line 5 advanced permit udp any range 1025 65535 any eq 3544 rule-id 9998 (hitcnt=0) 0xaf1d5aa5
access-list CSM_FW_ACL line 6 advanced permit 41 any any rule-id 9998 (hitcnt=0) 0x06095aba
access-list CSM_FW_ACL line 7 advanced permit gre any any rule-id 9998 (hitcnt=0) 0x52c7a066
access-list CSM_FW_ACL line 8 remark rule-id 268454922: ACCESS POLICY: Port-scan test - Mandatory
access-list CSM_FW_ACL line 9 remark rule-id 268454922: L7 RULE: Rule 1
access-list CSM_FW_ACL line 10 advanced permit tcp object-group FMC_INLINE_src_rule_268454922 object-group FMC_INLINE_dst_rule_268454922 eq www rule-id 268454922 (hitcnt=0) 0x46def508
access-list CSM_FW_ACL line 10 advanced permit tcp host 10.1.1.1 host 10.3.3.3 eq www rule-id 268454922 (hitcnt=0) 0x89163d78
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.1.1.1 host 10.4.4.4 eq www rule-id 268454922 (hitcnt=0) 0xced82d1
access-list CSM_FW_ACL line 10 advanced permit tcp host 10.2.2.2 host 10.3.3.3 eq www rule-id 268454922 (hitcnt=0) 0x16cf481d
access-list CSM_FW_ACL line 10 advanced permit tcp host 10.2.2.2 host 10.4.4.4 eq www rule-id 268454922 (hitcnt=0) 0x9d998336
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.1.1.1 host 10.3.3.3 eq https rule-id 268454922 (hitcnt=0) 0x89163d78
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.1.1.1 host 10.4.4.4 eq https rule-id 268454922 (hitcnt=0) 0x837a795d
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.2.2.2 host 10.3.3.3 eq https rule-id 268454922 (hitcnt=0) 0x42a0ae77
access-list CSM_FW_ACL line 11 advanced permit tcp host 10.2.2.2 host 10.4.4.4 eq https rule-id 268454922 (hitcnt=0) 0x569b1e17
access-list CSM_FW_ACL line 12 remark rule-id 268453888: ACCESS POLICY: Port-scan test - Default
access-list CSM_FW_ACL line 13 remark rule-id 268453888: L4 RULE: DEFAULT ACTION RULE
access-list CSM_FW_ACL line 14 advanced deny ip any any rule-id 268453888 (hitcnt=0) 0x97aa021a
Firepower#
```

Expanding to 8 Rules.

OGS: نيكمت دعب

```
firepower# show access-list
access-list cached ACL log flows: total 0, denied 0 (deny-flow-max 4096)
  alert-interval 300
access-list CSM_FW_ACL ; 8 elements; name hash: 0x4a69e3f3
access-list CSM_FW_ACL line 1 remark rule-id 9998: PREFILTER POLICY: Default Tunnel and Priority Policy
access-list CSM_FW_ACL line 2 remark rule-id 9998: RULE: DEFAULT TUNNEL ACTION RULE
access-list CSM_FW_ACL line 3 advanced permit ipinip any any rule-id 9998 (hitcnt=0) 0xf5b597d6
access-list CSM_FW_ACL line 4 advanced permit udp any eq 3544 any range 1025 65535 rule-id 9998 (hitcnt=0) 0x46d7839e
access-list CSM_FW_ACL line 5 advanced permit udp any range 1025 65535 any eq 3544 rule-id 9998 (hitcnt=0) 0xaf1d5aa5
access-list CSM_FW_ACL line 6 advanced permit 41 any any rule-id 9998 (hitcnt=0) 0x06095aba
access-list CSM_FW_ACL line 7 advanced permit gre any any rule-id 9998 (hitcnt=0) 0x52c7a066
access-list CSM_FW_ACL line 8 remark rule-id 268454922: ACCESS POLICY: Port-scan test - Mandatory
access-list CSM_FW_ACL line 9 remark rule-id 268454922: L7 RULE: Rule 1
access-list CSM_FW_ACL line 10 advanced permit tcp object-group FMC_INLINE_src_rule_268454922 object-group FMC_INLINE_dst_rule_268454922 eq www rule-id 268454922 (hitcnt=0) 0x46def508
access-list CSM_FW_ACL line 10 advanced permit tcp v4-object-group FMC_INLINE_src_rule_268454922(2147483648) v4-object-group FMC_INLINE_dst_rule_268454922(2147483648) eq www rule-id 268454922 (hitcnt=0) 0x1071fd2
access-list CSM_FW_ACL line 11 advanced permit tcp object-group FMC_INLINE_src_rule_268454922 object-group FMC_INLINE_dst_rule_268454922 eq https rule-id 268454922 (hitcnt=0) 0x89163d78
access-list CSM_FW_ACL line 11 advanced permit tcp v4-object-group FMC_INLINE_src_rule_268454922(2147483648) v4-object-group FMC_INLINE_dst_rule_268454922(2147483648) eq https rule-id 268454922 (hitcnt=0) 0x64a995a
access-list CSM_FW_ACL line 12 remark rule-id 268453888: ACCESS POLICY: Port-scan test - Default
access-list CSM_FW_ACL line 13 remark rule-id 268453888: L4 RULE: DEFAULT ACTION RULE
access-list CSM_FW_ACL line 14 advanced deny ip any any rule-id 268453888 (hitcnt=0) 0x97aa021a
firepower#
```

Expanding to only 2 Rules.

ةلص تاذا تامولعم

دنتسمل عجار، FTD ي دعاول عيسوت ةيفيك لوح ةيليصفتلا تامولعمل نام ديزمل [FirePOWER](#) ةزهجأ لىلع ةدعاول عيسوت مهف.

ءاطخال فاشكتساو (FTD) ةعرسال قئاف لاسرلال جامنارب "ةينب لوح تامولعمل نام ديزمل (FTD). ةيرانلا ةاطلا ديهت نع ءافل لىل عجار، ءاحالص او

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومچم مادختساب دن تسمل اذہ Cisco تچرت
ملاعلاء انءمچي فني مدختسمل معدى وتحم مي دقتل ةيرشبل او
امك ةقيقد نوك تنل ةللأل ةمچرت لصف أن ةظحال مچري. ةصاخل متهتل بل
Cisco يخلت. فرتحم مچرت مامدقي يتل ةيفارتهال ةمچرتل عم لالحل وه
ىل إأمئاد ةوچرلاب ي صؤتو تامچرتل هذه ةقدنع اهتيل وئسم Cisco
Systems (رفوتم طبارل) ي لصلأل يزي لچنل دن تسمل