

# čžèš£Firepowerá¨ è,,...é~²ç| |i¼^FMCè¨ —ç®i¼%

ç>®éŒ,,

[ç°;ä»<](#)

[â¿...è!æçä»¶](#)

[éœ€æ±,](#)

[æŽ;ç””â...fä»¶](#)

[èfŒæ™-è³‡è”Š](#)

[âŠÿèf½æ!,è¿°](#)

[6.3â¹<â% çš,,ç% ^æœ-â’ç¼Ÿ](#)

[è”â®š](#)

[ç¶è-âœ-è¿”](#)

[æŽ¶æš< â€” èé»ž](#)

[é... ç½®æ¥é©Ÿ](#)

[é©—è%₀](#)

[ç-‘é£æŽ’èš£](#)

[æ”¶é†FMCæ•...éšœæŽ’ é™æ”æ”æ¿^](#)

[â¿è!â••é¿Œ/éŒ-è”æ¶^æ-](#)

[èf”ç½²â±æ—](#)

[â»°è°çš..æ•...éšœæŽ’ é™æ”æ¥é©Ÿ](#)

[æ²”æœ%â••Ÿç””çš..FQDN](#)

[â••ç”](#)

ç°;ä»<

æœ-æ”æ¿^â°‡ä»<ç¹Firepowerç®;ç†ä¿¿f(FMC)âŒFirepowerá¨ è,,...é~²ç| |(FTD)çš,,FQDNâŠÿèf½i¼^è±

[â¿...è!æçä»¶](#)

[éœ€æ±,](#)

[æ€çš’â»è°æ,” çžèš£ä»¥ä¿¿»é¿Œi¼š](#)

- Firepowerç®;ç†ä¿¿f

[æŽ;ç””â...fä»¶](#)

æœ-æ”æ¿^â¿çš,,è³‡è”Šæ”æ¹æ”šä»¥ä¿¿»èé«”ç% ^æœ-i¼š

- æ€çš’Firepowerá¨ è,,...é~²ç| |(FTD)è™æ”-i¼Œé«”è¿Œè»Ÿé«”ç% ^æœ-6.3.0
- Firepowerç®;ç†ä¿¿fè™æ”-(vFMC)i¼Œé«”è¿Œè»Ÿé«”ç% ^æœ-6.3.0

æœ-æ-‡ä¿¿çš,,è³‡è”Šæ”æ¹æ”šç%â®šâ”lé©—â®çç”°â¿fâ...šçš,,è£ ç½®æ%œâ»°ç«”ã€„æ-‡ä¿¿ç”” â^°çš,,æ

[èfŒæ™-è³‡è”Š](#)

æœ-æ"æj^ä»ç'1è»ÿé«'ç%oo^æœ-6.3.0ä¼•ä...¥ã^°Firepowerç®jç♦tä,ä½f(FMC)ä'ÆFirepowerä" ♦è,,...é~²ç| | (|  
 æååŠÿèf½ä°äœ"æ-¼æ€çš'èªçé♦©äžã®%ooä... " è£♦ç½®(ASA)ä,¼Æä½tä, | ä, ♦äœ" FTDçš,,ä^ ♦äš«è»ÿé  
 äœ"é... ♦ç½®FQDNä° ♦è±jä¹<ä%o♦¼Æè«çç°äç♦æ»çè³ä»¥ä,æç♦ä»¼i¼š

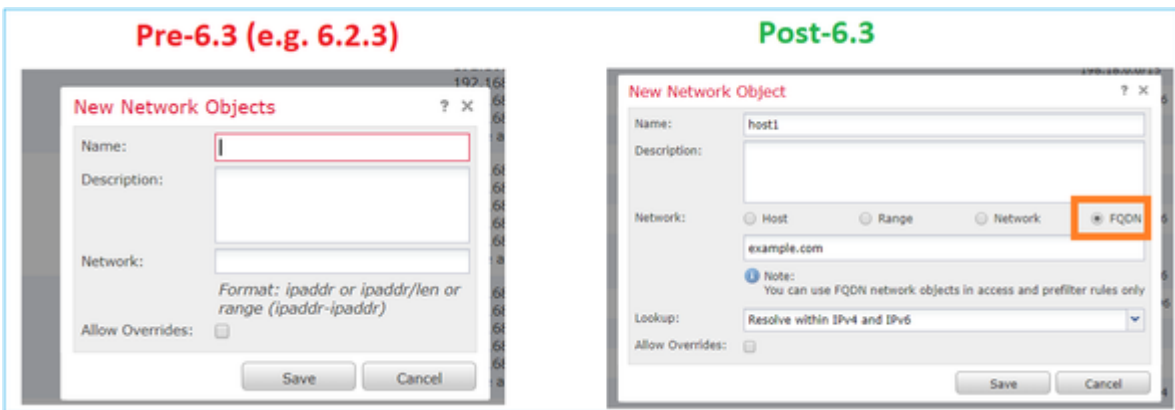
- Firepowerç®jç♦tä,ä½fäç...é ^é♦<èjÆ6.3.0ç%oo^æ^æ'è«~ç%oo^æœ-ä€ä,ä♦ä»¥æ~ç%ooçç♦tçš,,¼çç
- Firepowerä" ♦è,,...é~²ç| | äç...é ^é♦<èjÆ6.3.0ç%oo^æ^æ'è«~ç%oo^æœ-ä€ä,ä♦ä»¥æ~ç%ooçç♦tçš,,¼çç

äšÿèf½æ!,èç°

æååŠÿèf½ä°±FQDNèš£æž♦ç,°IPäœ°ä♦è¼Æä, | äœ" è"ä•♦æžšä^¼è | ♦ä%o†æ^é ♦é♦žæç¾ä™" ç-ç•

6.3ä¹<ä%o♦çš,,ç%oo^æœ-ä'ç¼¼ÿ

- é♦<èjÆ6.3.0ä¹<ä%o♦ç%oo^æœ-çš,,FMCä'ÆFTDç,,jæ³•é... ♦ç½®FQDNä° ♦è±jä€ç,



- ä!,æžœFMCé♦<èjÆç%oo^æœ-6.3æ^æ'è«~ç%oo^æœ-¼¼Æä½täFTDé♦<èjÆç%oo^æœ-ä½žæ-¼6.3¼çç

Deploy Policies Version: 2018-05-31 09:32 AM

Device	Inspect	Interruption	Type	Group	Current Version
10.106.173.86	✓	--	Sensor		
10.106.173.91	✗	No	FTD		2018-05-28 06:06 PM

**Errors and Warnings for Requested Deployment**

Errors in the policy must be resolved before you can proceed with deployment.

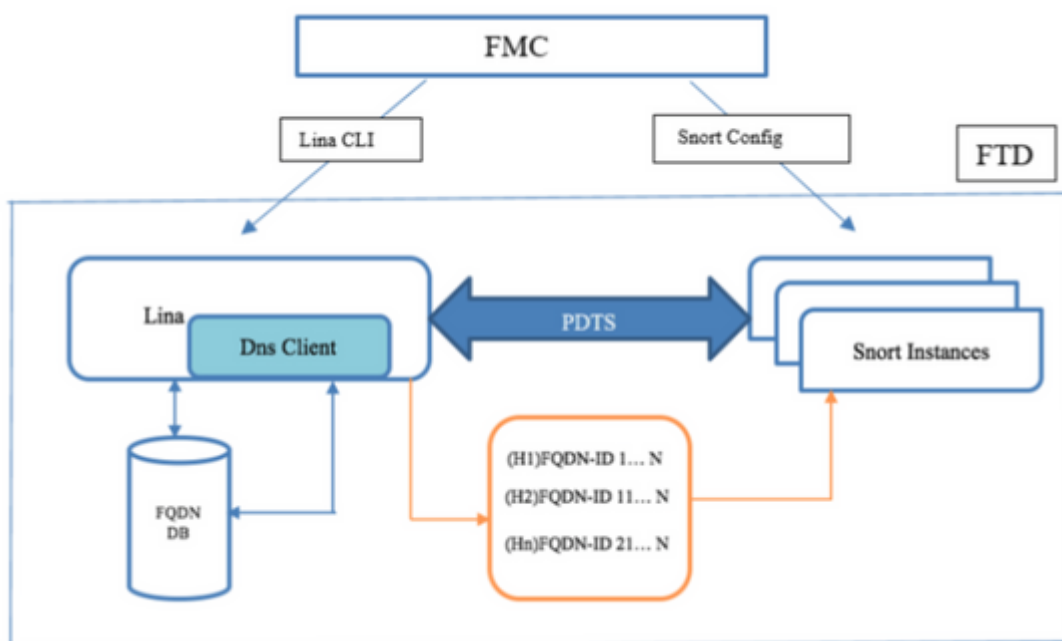
Severity	Device	Policy	Details
Error	10.106.173.86	AC1	<b>Access Control Policy</b> rule1: This rule contains the following FQDN objects: fqdnDestination, fqdnSource. FQDN objects are supported only on Firepower Threat Defense devices running at least version 6.3.

- æåå¼-¼¼Æä!,æžœé♦é♦žFlexConfigè" ä®šDNSç%ooçä»¼¼Æä%o†æœfä†°ç♦¾ä»¥ä,è | ä'š¼¼š

Errors and Warnings for Requested Deployment			
One or more selected devices have warnings. You can still proceed with deployment.			
Severity	Device	Policy	Details
Warning	10.10.0.14 2-FTD	fc-01	<b>Flex Config Policy</b> fc-01: FlexConfig objects Default_DNS_Configure_Copy are not allowed to be selected because this functionality is natively configurable via FMC.  fc-01: FlexConfig objects tcp_bypass are not allowed to be

è`â®š

ç¶²è·âœ-è;`



æž¶æš< â€” è«é»ž

- DNS èššæž ¶ĩ^DNSâ°IPĩ¼%âœ` LINAä,ç™¼ç"Ÿ
- LINAâ°žâ° æ~ â,,²â~âœ` â...¶è³†æ-™â°«ä,
- â° æ-¼æ¯ æ€<é€ç·šĩ¼œæ¶â° æ~ â¼žLINAâ,³é€ â°snort
- FQDNçš,,èššæž çç "ç«æ-¼é«~â ç" æ€šæ^-ç¾æé>†é... ç½®

é... ç½®æŸé©Ÿ

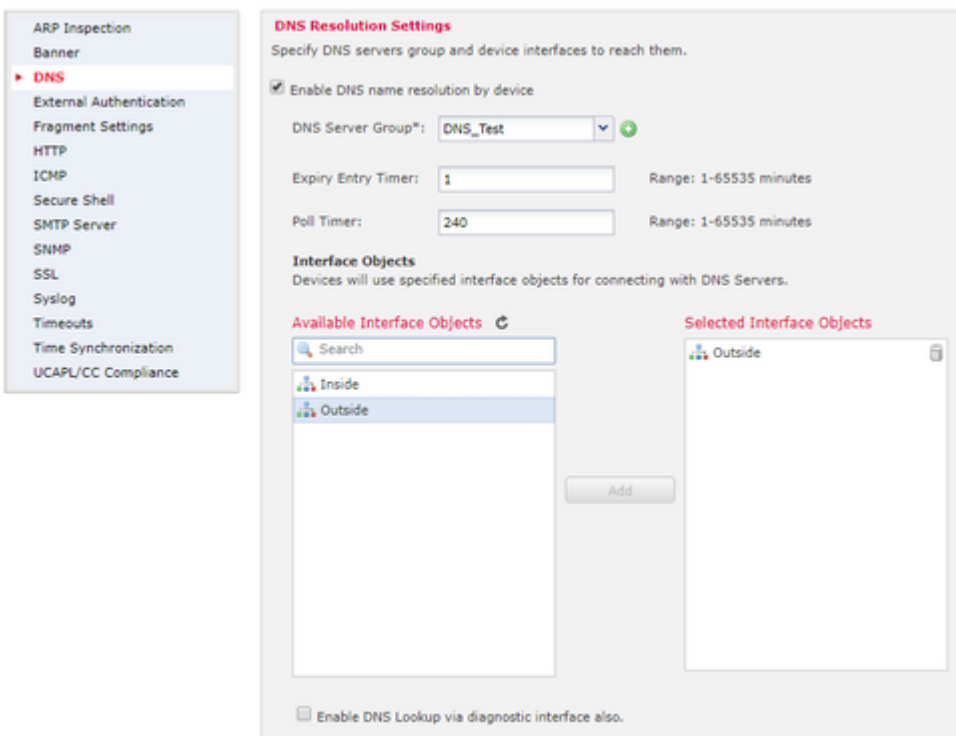
æŸé©Ÿ1.é... ç½®ã€œDNSä¼°æœ ä™" çµ,,â° è±jã€



â€f

- DNSä¼°æœŒä™ çµ„,äºŒç±±,ä½Œè¶Œ...éŽ63â€‹â—â...f
- äœ”âœšäŸŸéŒç½²ä,ï¼€äºŒè±ŒäºŒç±±äœ”äŸŸä±œ-ï¼µæšš,ä,äž...é^æ”ä”ä,€çšš,ã€,ç³»çµ±äºŒ
- éè”äŸŸï¼^ä”é,ï¼‰ç””æ-¼é™,äššä^éžšâ€‹â...é™äššçšš,ä,»æ©Ÿä
- éè”çšš,Retriesâ€‹â€œTimeoutâ€¼æ”éä;«â.....çšš,ã€,
  - Retries â€”
    - ç³»çµ±æœŒ”ä^èŸ,æ±‰æ™,é±Œè©|DNSä¼°æœŒä™ æ,...â-@çšš,æ-ï¼æ,ï¼^â¾ž0â^10ï¼‰
  - Timeout â€”
    - ä”|ä,€â€‹ä¼°æœŒä™ ä—èè©|é€çššä^ä,ä,€â€‹DNSä¼°æœŒä™ ä¹‹â‰‰çšš,çššæ,ï¼‰
- è¼,â...Ÿèšš ä...Ÿæçµ„,çšš,DNSä¼°æœŒä™ ä€,â@fâ”ä»Ÿæ”é€—è™Ÿä^tés”â€¼çšš,IPv4æ^-I
- DNSä¼°æœŒä™ çµ„,ç””æ-¼èššæžšäœ”ã€€â¹³ä”è”äššã€”ä,é...ç½²@çšš,ä,€â€‹æ^-âœšâ€‹ä
- æ”-æç””æ-¼DNSä¼°æœŒä™ çµ„,äºŒè±Œ;CRUDçšš,REST API

æŸ€©Ÿ2.é...ç½²@DNSï¼^â¹³ä”è”äššã€”ä,é...ç½²@çšš,ä,€â€‹æ^-âœšâ€‹ä



- ï¼^ä”é,ï¼‰ç””æ-¼äœŸæççšš@è”æ™,ä™”ä’€è¼âèèè”^æ™,ä™”ä€¼ï¼^ä»Ÿä^tèçšš,ç³»

á°æœÿæçⓈ®è¨æ™,á™¨é,é...æœæ†á®šáœ¨á...¶ç¨ÿá¨æ™,é¨(TTL)é¨Žæœÿá¾œá¾žDNSæÿæè©œ  
 è¼ªè©œ¨æ™,á™¨é,é...æœæ†á®šæ™,é¨é™¨á¨¶¼œè¶...é¨Žæœæ™,é¨é™¨á¨¶èœç½®á°†æÿæè©œ

- ¶¼á¨é¨,¶¼%¾á¨ç¨æ,...á¨-®á¨é¨,æ¨†æ%œéœçš,¨á¨«é¨çá¨è±¶¼œä,¶á¨†á¨¶æ-°áçžá

á¨æ-¼Firepowerá¨è,,...é¨²ç!¶6.3.0èœç½®¶¼œá,æžœæœæé¨,æ¨†á¨«é¨ç¼œä,¶á¨ç!¨ç¨¨è¨°á  
 lookup any¶¼%ãœ,

á,æžœæ²æœ%œœæ†á®šá¨»á½¨á¨«é¨ç¼œä,¶á¨æ²æœ%áœ¨è¨°æ-¨á¨«é¨çä,šá¨ÿç¨¨DNSæÿæè©œç¼œ¶¼%o¶¼

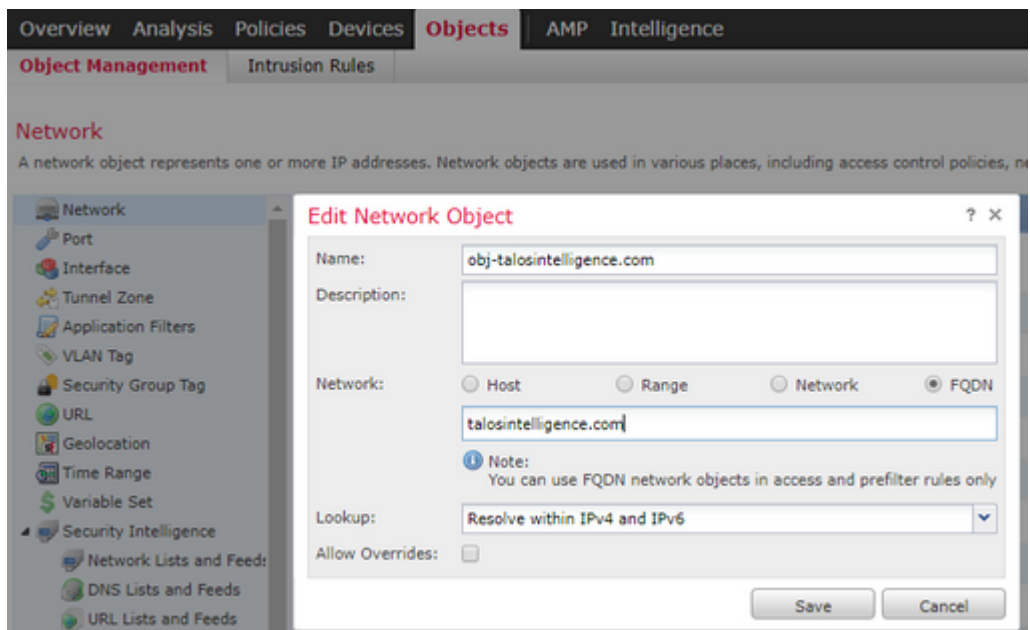
- ¶¼á¨é¨,¶¼%é¨,ä,Enable DNS Lookup via the diagnostic interface alsoè!¨á¨-æ-¹á;š

á,æžœá¨ÿç¨¨è©²ášÿèf¼zi¼œá%¶Firepowerá¨è,,...é¨²ç!¶æœæfá°†æ%œé¨,è³†æ-™á¨«é¨çá¨œ¨°æ-¨á¨«é¨  
 > Device Management > edit device >

Interfacesé¨é¨çä,šç,è¨°æ-¨á¨«é¨çé...¨ç½®IPáœá¨œãœ,

æÿé©ÿ3. é...¨ç½®á¨è±;ç¶²è¨FQDN

á¨žè¨á¨á¨è±;(Objects)>á¨è±;ç®;ç†(Object  
 Management)¶¼œæ¨ç¶²è¨á¨è±;á¨šæœæ†á®šé¨,æ¨†FQDNé¨,é...ãœ,

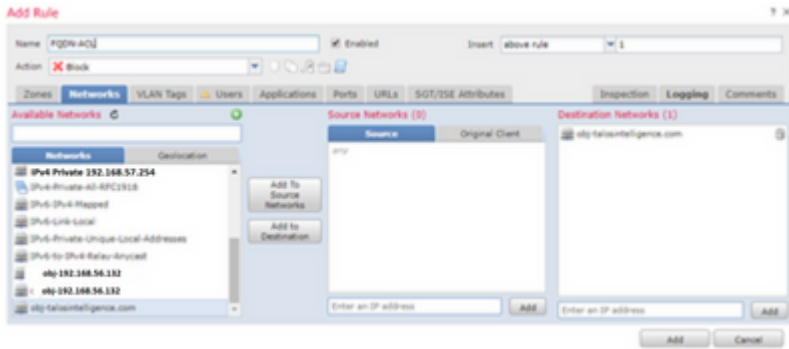


- ç¶¼½ç¨¨èœ...á¨ç«FQDNá¨è±;æ™,ç¨ÿæ¨³²á½á¨¨á¨,œID
- æœID¾¾FMCæž¨èœ¨á¨LINAá¨œSnort
- á¨LINAä,¶¼œæœIDè¨ç%œ»¶ç,é¨œè¨
- á¨snortä,¶¼œæœIDè¨çá¨œ...á¨«è©²á¨è±;çš,è¨°á¨æžšá¨¶è!¨á¨%†ç,é¨œè¨

æÿé©ÿ4.á¨ç«è¨á¨æžšá¨¶è!¨á¨%†

á½ç¨¨á¨æ%œ

çš,,FQDNâ° è±jâ»°ç««è! â%o#ä,|éf ç½²ç-ç•¥i¼š



â€f

#	Name	Source Zones	Dest Zones	Source Networks	Dest Networks	VLAN Tags	Users	Applications	Source Ports	Dest Ports	URLs
Mandatory - Aleescob_ACP (1-3)											
1	FQDN-ACL	Inside	Outside	Any	obj-talosintelligence.com	Any	Any	Any	Any	Any	Any
2	ICMP_in_to_wan	Inside	Outside	Any	Any	Any	Any	Any	Any	Any	Any
3	DNS_in_to_wan	Inside	Outside	Any	Any	Any	Any	Any	Any	UDP (17):63	Any
Default - Aleescob_ACP (-)											
There are no rules in this section. Add Rule or Add Category											
Default Action											

æ³·æ,,ç½²ç-ç•¥ä,éf ç½²FQDNâ° è±jæ™,i¼çæ°#ç™¼ç"ŸFQDNèš£æž çš,,ç-ã,€

é©—è%o

äl¼ç"æ-ç-€â...šâ@i¼ççç°èæ, çš,,çµ,,æ...æ~â! æ£â,é ä½œã€,

- é™æ~â°éf ç½²FQDNâ¹<â%çš,,FTDâ^ âš<é... ç½²@i¼š

```
aleescob# show run dns
DNS server-group DefaultDNS
```

- é™æ~FQDNéf ç½²â¾¼ççš,,é... ç½²@i¼š

```
aleescob# show run dns
dns domain-lookup wan_1557
DNS server-group DNS_Test
  retries 3
  timeout 5
  name-server 172.31.200.100
  domain-name aleescob.cisco.com
DNS server-group DefaultDNS
dns-group DNS_Test
```

- ä»¥ä,æ~FQDNâ°

◆è±;ãœ" LINAä,çš,,éj¯çºæ-¹ã¼◆i¼š

object network obj-talosintelligence.com  
fqdn talosintelligence.com id 268434436

- ã!,æžæã²éç¹²FQDNi¼CEã%¼±é€™æ~FQDNã~ã◆-æ,...ã-@ãœ" LINAä,çš,,éj¯çºæ-¹ã¼◆i¼š

```
access-list CSM_FW_ACL_ remark rule-id 268434437: ACCESS POLICY: Aleescob_ACP - Mandatory  
access-list CSM_FW_ACL_ remark rule-id 268434437: L4 RULE: FQDN-ACL  
access-list CSM_FW_ACL_ advanced deny ip ifc lan_v1556 any ifc wan_1557 object obj-talosintelligence.com
```

- ä»¥ä, <æ~Snort(ngfw.rules)ä, çš,,ãº-èš€i¼š

```
# Start of AC rule.  
268434437 deny 1 any any 2 any any any any (log dcforward flowstart) (dstfqdn 268434436)  
# End rule 268434437
```

æ³·æ,,◆i¼šãœ" æºæ-¹æj^ä, i¼CEç"±æ-¼FQDNã°◆è±;ç" æ-¼ç>@æ"™i¼CEã> æºã@fèç«ã^—ç,ºdstfqdnã

- ã!,æžææªçæÿ¥show dnsã'CEshow  
fqdnã¹¼ä»¼¼CEã%¼±ã◆-ä»¥æ³·æ,,◆ã^ºãšÿèf¹¼ã²é-ãš<èš£æž◆tallosintelligenceçš,,IP:

```
aleescob# show dns  
Name: talosintelligence.com  
Address: 2001:DB8::6810:1b36 TTL 00:05:43  
Address: 2001:DB8::6810:1c36 TTL 00:05:43  
Address: 2001:DB8::6810:1d36 TTL 00:05:43  
Address: 2001:DB8::6810:1a36 TTL 00:05:43  
Address: 2001:DB8::6810:1936 TTL 00:05:43  
Address: 192.168.27.54 TTL 00:05:43  
Address: 192.168.29.54 TTL 00:05:43  
Address: 192.168.28.54 TTL 00:05:43  
Address: 192.168.26.54 TTL 00:05:43  
Address: 192.168.25.54 TTL 00:05:43
```

```
aleescob# show fqdn  
FQDN IP Table:  
ip = 2001:DB8::6810:1b36, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436  
  
ip = 2001:DB8::6810:1c36, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436  
  
ip = 2001:DB8::6810:1d36, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436
```

ip = 2001:DB8::6810:1a36, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436

ip = 2001:DB8::6810:1936, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436

ip = 192.168.27.54, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436

ip = 192.168.29.54, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436

ip = 192.168.28.54, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436

ip = 192.168.26.54, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436

ip = 192.168.25.54, object = obj-talosintelligence.com, domain = talosintelligence.com  
FQDN-ID = 268434436

FQDN ID Detail:

FQDN-ID = 268434436, object = obj-talosintelligence.com, domain = talosintelligence.com

ip = 2001:DB8::6810:1b36, 2001:DB8::6810:1c36, 2001:DB8::6810:1d36, 2001:DB8::6810:1a36, 2001:DB8::6810:1936, 2001:DB8::6810:1836, 2001:DB8::6810:1736, 2001:DB8::6810:1636, 2001:DB8::6810:1536, 2001:DB8::6810:1436, 2001:DB8::6810:1336, 2001:DB8::6810:1236, 2001:DB8::6810:1136, 2001:DB8::6810:1036, 2001:DB8::6810:936, 2001:DB8::6810:836, 2001:DB8::6810:736, 2001:DB8::6810:636, 2001:DB8::6810:536, 2001:DB8::6810:436, 2001:DB8::6810:336, 2001:DB8::6810:236, 2001:DB8::6810:136, 2001:DB8::6810:36, 2001:DB8::6810:16, 2001:DB8::6810:1, 2001:DB8::6810:0

- `show access-list`

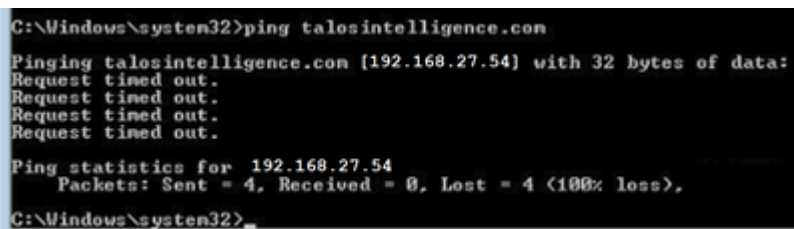
firepower# show access-list

```

access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 object obj-talosintelligence.com
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 fqdn talosintelligence.com
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1a36
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1936
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1836
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1736
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1636
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1536
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1436
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1336
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1236
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1136
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1036
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:936
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:836
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:736
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:636
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:536
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:436
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:336
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:236
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:136
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:36
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:16
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1
access-list CSM_FW_ACL_ line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:0

```

- `ping talosintelligence.com`





- `access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 object obj-talosintelligence`

```

access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 object obj-talosintelligence
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 fqdn talosintelligence
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 2001:DB8::6810:1
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 192.168.27.54 (talosintelligence)
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 192.168.29.54 (talosintelligence)
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 192.168.28.54 (talosintelligence)
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 192.168.26.54 (talosintelligence)
access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 host 192.168.25.54 (talosintelligence)

```

- `access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 object obj-talosintelligence`

```

aleescob# show cap in 13 packets captured 1: 18:03:41.558915 192.168.56.132 > 172.31.200.100 icmp:
192.168.56.132 udp port 59396 unreachable 2: 18:04:12.322126 192.168.56.132 > 172.31 icmp:echo
request 3 8:04:12.479162 172.31.4.161 > 192.168.56.132 icmp:echo reply 4: 18:04:13.309966
192.168.56.132 > 172.31.4.161 icmp:echo request 5: 18:04:13.462149 172.31.4.161 > 192.168.56.132
icmp:echo reply 6: 18:04:14.308425 192.168.56.132 > 172.31.4.161 icmp:echo request 7:
18:04:14.475424 172.31.4.161 > 192.168.56.132 icmp:echo reply 8: 18:04:15.306823 192.168.56.132 >
172.31.4.161 icmp:echo request 9: 18:04:15.463339 172.31.4.161 > 192.168.56.132
icmp:echo reply 10: 18:04:25.713662 192.168.56.132 > 192.168.27.54 icmp:echo request 11:
18:04:30.704232 192.168.56.132 > 192.168.27.54 icmp:echo reply 12: 18:04:35.711480
192.168.56.132 > 192.168.27.54 icmp:echo request 13: 18:04:40.707528 192.168.56.132 > 192.168.27.54
icmp:echo request aleescob# show cap in packet-number 10 trace
192.168.27.54 icmp:echo reply 14: 18:04:25.713799 192.168.56.132 >
192.168.27.54 icmp:echo request 15: 18:04:30.704355 192.168.56.132 > 192.168.27.54
icmp:echo reply 16: 18:04:35.711556 192.168.56.132 > 192.168.27.54 icmp:echo request 17:
18:04:40.707589 192.168.56.132 > 192.168.27.54 icmp:echo reply

```

- `access-list CSM_FW_ACL_line 10 advanced deny ip ifc lan_v1556 any ifc wan_1557 object obj-talosintelligence`

```
aleescob# show cap in packet-number 10 trace
```

13 packets captured

```

10: 18:04:25.713662 192.168.56.132 > 192.168.27.54 icmp: echo request
Phase: 1
Type: CAPTURE
Subtype:
Result: ALLOW
Config:
Additional Information:
MAC Access list

Phase: 2
Type: ACCESS-LIST
Subtype:
Result: ALLOW
Config:
Implicit Rule

```

Additional Information:

MAC Access list

Phase: 3

Type: ROUTE-LOOKUP

Subtype: Resolve Egress Interface

Result: ALLOW

Config:

Additional Information:

found next-hop 192.168.57.254 using egress ifc wan\_1557

Phase: 4

Type: ACCESS-LIST

Subtype: log

Result: DROP

Config:

access-group CSM\_FW\_ACL\_ global

access-list CSM\_FW\_ACL\_ advanced deny ip ifc lan\_v1556 any ifc wan\_1557 object obj-talosintelligence.com

access-list CSM\_FW\_ACL\_ remark rule-id 268434437: ACCESS POLICY: Aleescob\_ACP - Mandatory

access-list CSM\_FW\_ACL\_ remark rule-id 268434437: L4 RULE: FQDN-ACL

Additional Information:

Result:

input-interface: lan\_v1556

input-status: up

input-line-status: up

output-interface: wan\_1557

output-status: up

output-line-status: up

Action: drop

Drop-reason: (acl-drop) Flow is denied by configured rule

- `! ,æžæè`ª•æŽšã^¶è! ,ã%o†çš,,æ"æ½œç,°Allowi¼Œã%o†æç,°ç³»çµ±æ"æ'firewall-engine-debugçš,,è¼,ã†°çª°ä¾¼`

> system support firewall-engine-debug

Please specify an IP protocol: icmp

Please specify a client IP address: 192.168.56.132

Please specify a server IP address:

Monitoring firewall engine debug messages

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 new firewall session

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 DAQ returned DST FQDN ID: 268434436

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 Starting with minimum 2, 'FQDN-ACL', and SrcZone first with

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 Match found for FQDN id: 268434436

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 match rule order 2, 'FQDN-ACL', action Allow

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 MidRecovery data sent for rule id: 268434437,rule\_action:2

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 allow action

192.168.56.132-8 > 192.168.29.54-0 1 AS 1 I 0 deleting firewall session

- `ã°†FQDNéf`ç½ç,°é éŽæç¾ã™™(Fastpath)çš,,ä,œéf`ã^tæ™,i¼Œéé™æ~ngfwä,çš,,ãª-èšãã€,rul`

```

iab_mode Off
# Start of tunnel and priority rules.
# These rules are evaluated by LINA. Only tunnel tags are used from the matched rule id.
268434439 fastpath any any any any any any any (log dcforward both) (tunnel -1)
268434438 allow any any 1025-65535 any any 3544 any 17 (tunnel -1)
268434438 allow any any 3544 any any 1025-65535 any 17 (tunnel -1)
268434438 allow any any any any any any any 47 (tunnel -1)
268434438 allow any any any any any any any 41 (tunnel -1)
268434438 allow any any any any any any any 4 (tunnel -1)
# End of tunnel and priority rules.

```

- `access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-`

```

Phase: 4
Type: ACCESS-LIST
Subtype: log
Result: ALLOW
Config:
access-group CSM_FW_ACL_ global
access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-
access-list CSM_FW_ACL_ remark rule-id 268434439: PREFILTER POLICY: Prefilter-1
access-list CSM_FW_ACL_ remark rule-id 268434439: RULE: FQDN_Prefilter
Additional Information:

```

## 1. `access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-`

1. `access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-`
  - `access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-`
  - `access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-`

## 2. `access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-`

- `show dns access-list`
- `show run object network`
- `show fqdn id X`
- `show firewall-engine-debug`

## 3. `access-list CSM_FW_ACL_ advanced trust ip any object obj-talosintelligence.com rule-id 268434439 event-`

GUI `show fqdn id X` `show firewall-engine-debug`

Linux `show fqdn id X` `show firewall-engine-debug`

æ—ÏèªÆæªªâ❖❖ç¨±/ä½❖ç½®	ç>®çš,,
/opt/CSC0px/MDC/log/operation/vmsshreddsvcs.log	æ%œæœ%APIâ¼â❖«
/var/opt/CSC0px/MDC/log/operation/usmshreddsvcs.log	æ%œæœ%APIâ¼â❖«
/opt/CSC0px/MDC/log/operation/vmsbesvcs.log	CLIç¨Ïæ^❖æ—ÏèªÆ
/opt/CSC0px/MDC/tomcat/logs/stdout.log	Tomcatæ—ÏèªÆ
/var/log/mojo.log	Mojoæ—ÏèªÆ
/var/log/CSMAgent.log	CSMâ¼ÆDCä¼é—çš,,RESTâ¼â❖«
/var/log/action_queue.log	DCçš,,æ“❖ä½œéššâ^—æ—ÏèªÆ

â¼,è|â¼❖é;Æ/éÆèªæ¶æ¶^æ❖

ä»Ïä¼,æ~FQDNâ¼ÆDNSä¼œæ❖â™¨ çμ,,â¼❖è±jâ¼ÆDNSè¨â¼šçš,,UIä¼é; çªºçš,,éÆèªæ/è|â¼š¼š

éÆèªæ/è|â¼š

**i** Name contains invalid characters. Name should be start with either alphabet or underscore and follow with either alphanumeric or special characters (-, \_ , +, .)

â❖❖ç¨±âÆ...â❖«ç,,jæª^â—â...fã€,,â❖❖ç¨±â¼...é ^ä»Ïä¼—æ^æ^—ä¼,âšfç·šé—é i¼Æç,,¶â¼Ææ~â—æ

Invalid default domain value

é è ã ÿ ä € ¼ ç ,, i æ • ^

Errors and Warnings for Requested Deployment

One or more selected devices have warnings. You can still proceed with deployment.

Severity	Device	Policy	Details
Warning	mzafeiro	mzafeiro_Platform	<b>NgfwPFSettings</b> No Interface Object has been selected for the DNS in platform setting 'mzafeiro_Platform_Settings'. If proceeded, DNS domain-lookup will happen on all interfaces.

å œ ã ã 13 å é ð è ã ® š ä € € m z a f e i r o \_ P l a t f o r m \_ S e t t i n g s ä € ä , æ œ º ç , ° D N S é , æ " † ä » « é ç º è ± j ä € , å | , æ ž œ

Errors and Warnings for Requested Deployment

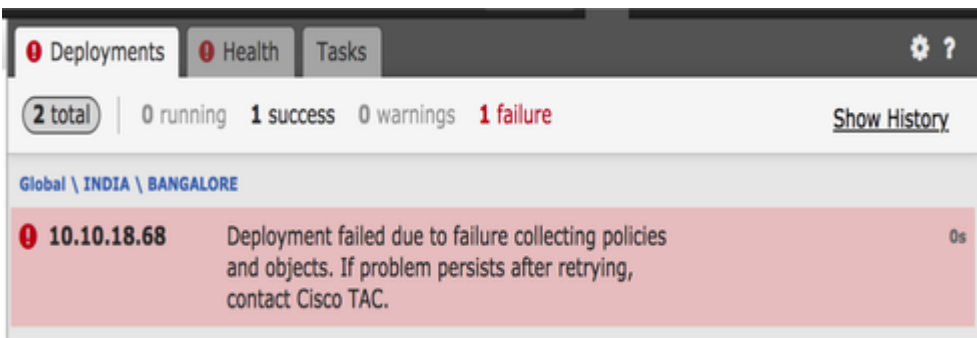
One or more selected devices have warnings. You can still proceed with deployment.

Severity	Device	Policy	Details
Warning	banfouqa	PS	<b>NgfwPFSettings</b> No Interface Object has been selected for the DNS platform setting 'PS'. If proceeded, no DNS server-group with 'DNS_Group1' will get applied.

å œ ã ã 13 å é ð è ã ® š ä € € m z a f e i r o \_ P l a t f o r m \_ S e t t i n g s ä € ä , æ œ º ç , ° D N S é , æ " † ä » « é ç º è ± j ä € , å | , æ ž œ

é f ¸ ç 1 / 2 º ä º ± æ • —

å œ é º T M º A C ç - ç • ¥ / é é é Ž æ ç 3 / 4 º T M º ç - ç • ¥ ä » ¥ º º - ç š ,, ç - ç • ¥ ä , ä 1 / 2 ç º º F Q D N æ º T M , i 1 / 4 € ä - è f 1 / 2 æ œ f ç º T M 1 / 4 ç º º Y æ º é U I ä , é j º ç º º i 1 / 4 š



å » è º ç š ,, æ • ... é š œ æ Ž ' é º T M º æ ¥ é º Y

1) é - ç å • Y æ - ¥ è º € æ º º æ j ~ i 1 / 4 š / v a r / o p t / C S C O p x / M D C / l o g / o p e r a t i o n / u s m s h a r e d s v c s . l o g

2) æ º ç æ Y ¥ é º — è % å ± æ - † i 1 / 4 € é ; ž ä 1 / 4 æ - 1 / 4 i 1 / 4 š

" é ... ç 1 / 2 ® ç š ,, ç º 2 è º ç ,, i æ • ä € , å œ è £ ç 1 / 2 ® [ D e v i c e N a m e s ] ä , Š é ... ç 1 / 2 ® ç š ,, ç º 2 è º [ N e t w o r k s C o n t a i n i n g â € f

```
USMS: 05-24 10:34:55 ** ID : 364feb06-6b77-4392-a7f5-87b50c5a7e06
USMS: 05-24 10:34:55 ** URL: POST https://localhost6/csm/api/deploy/DeployDevices
USMS: 05-24 10:34:55 {
USMS: 05-24 10:34:55   "version": "6.3.0",
USMS: 05-24 10:34:55   "error": {
USMS: 05-24 10:34:55     "code": 1,
USMS: 05-24 10:34:55     "description": "<html> Unknown Error.<br><br>Unknown error, 'Failed to create snapshot: Invalid network(s) configured<br><br> Networks [MyGroup] configured on device(s) [8] refer to<br>FQDN. They are invalid<br><br> Enter valid networks<br>\n' .<br><br> Please try the operation again<br></html>"
USMS: 05-24 10:34:55   }
USMS: 05-24 10:34:55   "deletelist": []
USMS: 05-24 10:34:55 }
USMS: 05-24 10:34:55 }
```

â€f

3)â»°è°çš,,èjCEâ<•i¼š

é©—è%œ~â♦|â²â½žç"" âCE...â♦«FQDNâ♦è±jçš,,FQDNæ^-çµ,,é...♦ç½®â»¥ä,ä,€â€æ^-âššâ€ç-ç•¥

a)è°«â»½ç-ç•¥

b)âCE...â♦«æ‡%œç"" æ-¼ACç-ç•¥çš,,FQDNçš,,è®šæ•,é†

æ²²æœ%œâ•ÿç""çš,,FQDN

ç³»çµâ♦-â»¥é€♦é♦ŽFTD CLIéj-çµ°ä,ä,€â€æ^-âššâ€ç-ç•¥

> show dns INFOi¼šæ²²æœ%œâ•ÿç""çš,,FQDN

âœ~æ‡%œç""â...æœ%œâ®šç¾¼©fqdnçš,,â♦è±jâ¹<â%œ♦i¼CEä,♦æœfâ•ÿç"" DNSâ€æ,æ‡%œç"" â♦è±jâ¾CEi¼CE

â♦♦ç"

â♦♦i¼šâ½žç"" FQDNçš,,Packet

Traceræ~â♦|æ~â♦â♦éjCEé€²èjCEæ•...éšœæŽ'é™µçš,,æœ%œæ^æ,-è©|i¼ÿ

ç'i¼šæ~i¼CEæ,,â♦-â»¥â°‡fqdné♦,é...è†Packet Tracerä,€èµ•â½žç"" ä€,

â♦♦i¼šFQDNè|♦â%œ‡æ>æ-°â¼°æœ♦â™™IPâœ°â♦€çš,,é »çŽ†â|,â½•i¼ÿ

ç'i¼šâ♦-æ±°æ-¼DNSéÿçæ‡%œçš,,TTLâ€¼â€,TTLâ€¼é♦Žæœÿâ¾¼CEi¼CEâ°‡â½žç"" æ-°çš,,DNSæÿ¥è©ç

é€™â¹ÿâ♦-æ±°æ-¼DNSâ¼°æœ♦â™™é...♦ç½®ä,â®šç¾¼©çš,,Poll

Timerâ±-æ€šâ€,ç•¶è¼°è©çDNSè^æ™,â™™é♦Žæœÿæ^-èš£æŽ♦çš,,IPæç♦ç>®çš,,TTLé♦Žæœÿæ™,j

â♦♦i¼šé€™â°è¼°è©çDNSæ~â♦|æœ%œæ~i¼ÿ

ç'i¼šè¼°è©çDNSâ♦-â»¥ç,,jç,«é<èjCEi¼CEâ> ç,°æâšÿèf½âœ FMC/FTDä,šâ½žç"" DNSâ®çæ^¶ç«~i¼CE

â♦♦i¼šæ~â♦|â°â½žTTL DNSâ€¼æœ%œé™™â^¶i¼ÿ

ç'i¼šâ|,æžœDNSéÿçæ‡%œâ...æœ%œ0

TTLi¼CEFTDèf♦ç½®æœfâçžâš 60çš'â€,âœ è€™ç"®æf...æ³♦ä,i¼CETTLa€¼è‡â°ç,°60çš'â€,

â♦♦i¼šâ> æµi¼CEé è"æf...æ³♦ä,<FTDæœfâçžç™™é è"â€¼60çš'i¼ÿ

ç'i¼šâ½žç""è€...âšçµâ♦-â»¥âœ DNSâ¼°æœ♦â™™ä,šâ½žç"" é♦Žæœÿæç♦ç>®è^æ™,â™™è"â®šè|t

â♦♦i¼šâ®fâ|,â½•è^†â»æ'DNSéÿçæ‡%œâ°âœ"â½œei¼ÿâ¾¼â|,i¼CEDNSâ¼°æœ♦â™™â♦-â»

ç'i¼šæ~i¼CEâ|,æžœFQDNèf½âœ èš£æŽ♦âššâ€IPâœ°â♦€i¼CEâ%œ‡æ%œæœ%œâœ°â♦€éf½â°‡æŽ' é€€

å•i¼šæ~å|è^ç•«åCE...å«éè|½é,é...i¼CEé;çª«ä»ä½•é-ç™¼æ'æ"1'å%å•æž é  
ç"i¼šé€™æ~é€šŽFlexé...ç½@æä¾çš,,Preview  
configé,é...çš,,ä,€éí"å†täé,éè|½å²ç"å~åœi¼CEä½†æ~å@féš±è—åœFlex  
Configç-ç•¥ä,ä€,æ^å€èè^ç•«åªå...¶çš»åªi¼CEä½zå...¶æ^ç,°é€šç"ç"çå"ä€,

å•i¼šFTDä,šçš,,å"å€ä»éçç"æ-¼åÿ•è;CEDNSæÿ¥è©ç¼ÿ  
ç"i¼šä~ä»¥é...ç½@ä€,å,|,æžœæ²æœ%èè"å@šä»éçç"i¼CEå%ªæœfå•ÿç"FTDä,šçš,,æ%œæœ%åª

å•i¼šåä½zå°å...æœ%ç,åCFQDNåè±;çš,,æ%œæœ%èè—ç@;çš,,NGFWæª%ç"ç,å  
IPè½%œi¼ÿ  
ç"i¼šæ~å€,

å•i¼šæ~å|å~ä»¥æ,...é™ªDNSåz«å-i¼CEä»¥¾zå°FQDN  
ACLé€è;CEæ...éšœæž'é™ªi¼ÿ  
ç"i¼šæ~çš,,i¼CEæ,ä~ä»¥åœè€ç½@ä,šåÿ•è;CEclear dnså'CEclear dns-hosts cache å½ä»ª€,

å•i¼šå½•æ™,èšç™¼FQDNèš£æži¼ÿ  
Ai¼šåœACç-ç•¥ä,éç½²FQDNåè±;æ™,i¼CEæœfé€è;CEFQDNèš£æžä€,

å•i¼šæ~å|åªèf½æ,...é™ªå-@å€çç™é»žçš,,åz«å-i¼ÿ  
ç"i¼šæ~å€,å,æžœæ,çÿ¥ç"åÿåæ^IPåœåi¼CEå%ªå~ä»¥æ,...é™ªå@fi¼CEä½†æ¹æ"šACLçš  
dns host  
agni.tejas.comå½ä»ªi¼CEä»¥å½zç"éœéµå—hosté€å€ä,æœÿæ,...é™ªä,æœÿä,šçš,,åz«å-i¼CEå  
host agni.tejas.comæ%œçªå€,

å•i¼šæ~å|å~ä»¥å½zç"èç"å—å...fi¼CEå|,\*.microsoft.com?  
ç"i¼šä|ä€,FQDNåz...è^å¥æ,å—æ^å—é—çåšç'CEçµæÿä€,å...šéí"å—å...fåªèf½æ~å—æ

å•i¼šåäç±èš£æžæ~å|åœACç"èæ™,åÿ•è;CEi¼CEè€CEä,æ~åœç-ä,æ-;æ^å¾CE  
ç"i¼šéç½²ACç-ç•¥ä¾CEç«å³é€è;CEåç±èš£æžä€,æ¹æ"šTTLæ™,é—å^œœÿi¼CEç°CEè,æœfç¹

å•i¼šæ~å|è^ç•«èf½å è™çç†Microsoft Office 365é²IPåœå€(XML)æ,...å-@i¼ÿ  
ç"i¼šçç@å%ä,æ"æææ"å½œä€,

å•i¼šSSLç-ç•¥ä,æ~å|æä¾FQDN?  
ç"i¼šæš«æ™,ä,åç"i¼è»ÿé«ç%åœæœ-6.3.0i¼%å€,åf...ACç-ç•¥çš,,æçç²è'CEç@æ™ç²è—æ

å•i¼šæ~å|æœ%ä»ä½•å~ä»¥æä¾æœ%éœå²èš£æžFQDNè³èšçš,,æå²æ—  
ç"i¼šè¥è|åç%¹å@šç@æ™çš,,FQDNé€è;CEæ...éšœæž'é™ªi¼CEå~ä»¥å½zç"system  
support traceå½ä»ªi¼CEå...¶ä,èÿèéçªè³æ-™åCE...çš,,FQDN  
IDä€,æ,ä~ä»¥æ"è¼fè©²IDé€è;CEæ...éšœæž'é™ªä€,é,,,å~ä»¥å•ÿç"ç³çµ±æ—¥èªæ¶¶æ~746  
dnsèš£æžæ»å•ä€,

å•i¼šè€ç½@æ~å|åœ"å½zç"å²èš£æžIPçš,,é€çšè;ä,èè€CE,,FQDN?  
ç"i¼šè¥è|åç%¹å@šç@æ™çš,,FQDNé€è;CEæ...éšœæž'é™ªi¼CEå~ä»¥å½zç"system  
support traceå½ä»ªi¼CEå...¶ä,èÿèéçªè³æ-™åCE...çš,,FQDN  
IDä€,æ,ä~ä»¥æ"è¼fè©²IDé€è;CEæ...éšœæž'é™ªä€,ä»¥å¾CEè^ç•«åœFMCä,šçš,,å°ä»¶æªçè|—æ

## 關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。