

عافدلا ىل ع AnyConnect LDAP طي طخت نيوكت عافدلا ىل ع FirePOWER (FTD) ديدهت ن ع

تايوت حمل

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عمدق مل

ي ف (LDAP) ليلدلا ىل لوصول لوكوتورب طي طخت نيوكتل الاثم دن تس مل اذه مدقي
FirePOWER (FTD) ديدهت ن عافدلا جم انرب ىل ع AnyConnect يمدخت س مل Lightweight عضول
نيوكتل اذه مادخت س ا م تي. Firepower (FMC) قراد ا زك رمل FlexConfig ةسايس مادخت س اب
ءاشن اب (AD) Active Directory ةومجم ىل ا نومتن ني ذل ا ني ددحت مل ني مدخت س مل اام س ل
ريغ ةفلتخت مل AD تاعومجم نم نومدخت س مل ا نك م تي نل. (VPN) ةيره اظ ةصاخ ةكبش لاصتا
فيرعتل ا فلم س فنب لاصتال ا نم ةطي رخل ا ىل ع ةفرع مل.

ةيساس ال اابل ط مل

تابل ط مل

عوضوم اذه ىل ع ةفرع م تنأ ىق لتي نأ ىصوي cisco:

- FMC ىل ع نالعال قاطن نيوكت
- Windows Active Directory
- FMC ىل ع AnyConnect (SSLVPN) نيوكت
- FMC ىل ع FlexConfig تانئاب ةيساس ا ةفرع م

عمدخت س مل اانوك مل

- FirePower Manager Center (FMC)، رادص ا ل 6.2.3 و 6.5.0
- FirePOWER Threat Defense (FTD)، رادص ا ل 6.2.3 و 6.5.0
- Windows Server عم Active Directory

نيوك مل

FTD ىل ع نيوك مل

Edit Group Policy

? X

Name:*

Description:

General

AnyConnect

Advanced

VPN Protocols

IP Address Pools

Banner

DNS/WINS

Split Tunneling

IPv4 Split Tunneling:

IPv6 Split Tunneling:

Split Tunnel Network List Type:

Standard Access List Extended Access List

Standard Access List:

DNS Request Split Tunneling

DNS Requests:

Domain List:

Save

Cancel

- بجي ةقباس ل اتاعومجم ل ن م ي ا ل نومت ني ال ن ي ذل ن ي مدخت سم ل ل NoAccess ةومجم 0. ل ع مدخت سم ل كل ل قح ل ل ن مازتم ل لوخ دلا ل ي ج ست ن ي ع ت

Edit Group Policy

? X

Name: NOACCESS

Description:

General

AnyConnect

Advanced

Traffic Filter

Session Settings

Access Hours:

Simultaneous Login Per User: (Range 0-2147483647)

Connection Time

Max Connection Time: Minutes (Range 1-4473924)

Alert Interval: Minutes (Range 1-30)

Idle Time

Idle Timeout: Minutes (Range 1-35791394)

Alert Interval: Minutes (Range 1-30)

Save

Cancel

لإصتال فيرعت فلمل NOACCESS ةومجم جهن نييغت ب مق 4. ةوطخال

Edit Connection Profile ? X

Connection Profile:* AnyConnect

Group Policy:* NOACCESS Edit Group Policy

Client Address Assignment AAA Aliases

IP Address for the remote clients can be assigned from local IP Address pools/DHCP Servers/AAA Servers. Configure the 'Client Address Assignment Policy' in the Advanced tab to define the assignment criteria.

Address Pools:

Name	IP Address Range
SSL	10.10.10.1-10.10.10.10

DHCP Servers:

Name	DHCP Server IP Address
------	------------------------

Configure device overrides in the address pool object to avoid IP address conflicts in case of object is shared across multiple devices

Save Cancel

ةفاضل Object > Object Management T> FlexConfig > FlexConfig Object > افاضل FlexConfig Object.

لعل لوصحلل LDAP ةمس نني نني وكتل ةرورضل memberOf مي ق ةفاضل مق 6 ةوطخلل "dsquery samid -group <group-name>". رمال مادختس اكنكمي ،مداخلل نم ةومحلل DN

اقبسمة باتك و ةدحو ةرم رشنل نني نني بجي


ححص لكشب نني نني نني مل اذا .فرحال ةساسح مي قلاو تامسلل ةامسلل :حملت تامس مي قو ةامسلل LDAP ةمس ةطيرخي ف ريبكتل او ححصلل ةاملل مادختس اكنكم دكأت Cisco و LDAP.


Edit FlexConfig Object

? x

Name:

Description:

 Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Insert  Deployment: Type:

```
ldap attribute-map MAP
map-name memberOf Group-Policy
map-value memberOf "CN=group1,CN=Users,DC=cisco,DC=com" Group1
map-value memberOf "CN=group2,CN=Users,DC=cisco,DC=com" Group2
```

Variables

Name	Dimension	Default Value	Property (Typ...	Override	Description
No records to display					

Save Cancel

نئال اذه موقى AAAserverLDAPmapping فى مسم ال FlexConfig Object رخأ عاشنإ 7. ةوطخل ال AAA-server نىوك تب ةمسل ططخم قافراب

ةفاضل ةئيه لىل ةباتك و ةرم لك اهنأ لىل رشنل لميق نىيى عت بجى

Add FlexConfig Object

? x

Name:

Description:

Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Deployment: Type:

```
aaa-server LDAP host 192.168.109.29
ldap-attribute-map MAP
```

Name	Dimension	Default Value	Property (Typ...	Override	Description
No records to display					

Save Cancel

بيترت نأ ن م دكأت .يلاحل ال FlexConfig > Edit FlexConfig > ةزهجالا لى لى لقتنا 8. ةوطخل عبتم ال LDAP ةمسب صاخ ال FlexConfig نئاك ال واه FlexConfig جهن ي FlexConfig تانئاك ب نئاك AAA-server.

رادم ال زاهج ال لى لى نيوكت ال اذه لاسرل زاهج ال لى لى نيوكت ال رشن ب مق 9. ةوطخل

طقف ةديجل ال ةطيرخ ال ةميق نيضتل دوجوم ال LDAPAttributeMAP FlexConfig نئاك لي دعته ب مق ، LDAP ةطيرخ لى لى فاضل لاضل ةفاضل

Edit FlexConfig Object

? x

Name:

Description:

Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.

Deployment: Type:

```
ldap attribute-map MAP
map-value memberOf "CN=group3,CN=Users,DC=cisco,DC=com" Group3
```

ةحصل ال نم ققحت ال

تاعومجمل لى لى ني مدختسم ال ةردق نامضل رم او ال اذه رص او FTD CLISH ب لاصت ال اب مق لاصت ال لى لى ةدجمل


```
[49] Connect to LDAP server: ldap://192.168.109.29:389, status = Successful
[49] supportedLDAPVersion: value = 3
[49] supportedLDAPVersion: value = 2
[49] LDAP server 192.168.109.29 is Active directory
[49] Binding as AdminFTD
[49] Performing Simple authentication for AdminFTD to 192.168.109.29
[49] LDAP Search:
      Base DN = [DC=cisco,DC=com]
      Filter  = [samaccountname=ciscol]
      Scope   = [SUBTREE]
[49] User DN = [CN=ciscol,CN=Users,DC=cisco,DC=com]
[49] Talking to Active Directory server 192.168.109.29
[49] Reading password policy for ciscol, dn:CN=ciscol,CN=Users,DC=cisco,DC=com
[49] Read bad password count 1
[49] Binding as ciscol
[49] Performing Simple authentication for ciscol to 192.168.109.29
[49] Processing LDAP response for user ciscol
[49] Message (ciscol):
[49] Authentication successful for ciscol to 192.168.109.29
[49] Retrieved User Attributes:
[49]   objectClass: value = top
[49]   objectClass: value = person
[49]   objectClass: value = organizationalPerson
[49]   objectClass: value = user
[49]   cn: value = ciscol
[49]   givenName: value = ciscol
[49]   distinguishedName: value = CN=ciscol,CN=Users,DC=cisco,DC=com
[49]   instanceType: value = 4
[49]   whenCreated: value = 20181009153032.0Z
[49]   whenChanged: value = 20181009154032.0Z
[49]   displayName: value = ciscol
[49]   uSNCreated: value = 856333
[49] memberOf: value = CN=group1,CN=Users,DC=cisco,DC=com
[49] mapped to Group-Policy: value = Group1
[49] mapped to LDAP-Class: value = Group1
[49]   uSNChanged: value = 856372
[49]   name: value = ciscol
[49]   objectGUID: value = .K.'..3N...Q...
[49]   userAccountControl: value = 66048
[49]   badPwdCount: value = 1
[49]   codePage: value = 0
[49]   countryCode: value = 0
[49]   badPasswordTime: value = 131835752510299209
[49]   lastLogoff: value = 0
[49]   lastLogon: value = 131835733331105504
[49]   pwdLastSet: value = 131835726324409149
[49]   primaryGroupID: value = 513
[49]   objectSid: value = .....E1.E.G..9..@s...
[49]   adminCount: value = 1
[49]   accountExpires: value = 9223372036854775807
[49]   logonCount: value = 0
[49]   sAMAccountName: value = ciscol
[49]   sAMAccountType: value = 805306368
[49]   userPrincipalName: value = ciscol@cisco.com
[49]   objectCategory: value = CN=Person,CN=Schema,CN=Configuration,DC=cisco,DC=com
[49]   dSCorePropagationData: value = 20181009153316.0Z
[49]   dSCorePropagationData: value = 16010101000000.0Z
[49]   lastLogonTimestamp: value = 131835732321783732
[49] Fiber exit Tx=551 bytes Rx=2628 bytes, status=1
[49] Session End
```

```
firepower# debug aaa common 250
```

```
debug aaa common enabled at level 250
```

```
firepower# AAA API: In aaa_open
AAA session opened: handle = 31
AAA API: In aaa_process_async
aaa_process_async: sending AAA_MSG_PROCESS
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 0
[31] AAA FSM: In AAA_StartAAATransaction
[31] AAA FSM: In AAA_InitTransaction

Initiating authentication to primary server (Svr Grp: LDAP-29)
-----
[31] AAA FSM: In AAA_BindServer
[31] AAA_BindServer: Using server: 192.168.109.29
[31] AAA FSM: In AAA_SendMsg
User: cisco1
Resp:
callback_aaa_task: status = 1, msg =
[31] AAA FSM: In aaa_backend_callback
aaa_backend_callback: Handle = 31, pAcb = 0x00002aaad352bc80
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 1
[31] AAA FSM: In AAA_ProcSvrResp

Back End response:
-----
Authentication Status: 1 (ACCEPT)

[31] AAA FSM: In AAA_NextFunction
AAA_NextFunction: i_fsm_state = IFSM_PRIM_AUTHENTICATE, auth_status = ACCEPT
AAA_NextFunction: authen svr = LDAP-29, author svr = <none>, user pol = Group1, tunn pol =
NOACCESS
AAA_NextFunction: New i_fsm_state = IFSM_USER_GRP_POLICY,
[31] AAA FSM: In AAA_InitTransaction
aaai_policy_name_to_server_id(Group1)
Got server ID 0 for group policy DB

Initiating user group policy lookup (Svr Grp: GROUP_POLICY_DB)
-----
[31] AAA FSM: In AAA_BindServer
[31] AAA_BindServer: Using server: <Internal Server>
[31] AAA FSM: In AAA_SendMsg
User: Group1
Resp:
grp_policy_ioctl(0x00002b4ad31fd460, 114698, 0x00002b4ad7423430)
grp_policy_ioctl: Looking up Group1
callback_aaa_task: status = 1, msg =
[31] AAA FSM: In aaa_backend_callback
aaa_backend_callback: Handle = 31, pAcb = 0x00002aaad352bc80
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 1
[31] AAA FSM: In AAA_ProcSvrResp

Back End response:
-----
User Group Policy Status: 1 (ACCEPT)

[31] AAA FSM: In AAA_NextFunction
AAA_NextFunction: i_fsm_state = IFSM_USER_GRP_POLICY, auth_status = ACCEPT
AAA_NextFunction: New i_fsm_state = IFSM_TUNN_GRP_POLICY,
[31] AAA FSM: In AAA_InitTransaction
aaai_policy_name_to_server_id(NOACCESS)
Got server ID 0 for group policy DB

Initiating tunnel group policy lookup (Svr Grp: GROUP_POLICY_DB)
-----
[31] AAA FSM: In AAA_BindServer
[31] AAA_BindServer: Using server: <Internal Server>
```

[31] AAA FSM: In AAA_SendMsg
User: NOACCESS
Resp:
grp_policy_ioctl(0x00002b4ad31fd460, 114698, 0x00002b4ad7423430)
grp_policy_ioctl: Looking up NOACCESS
callback_aaa_task: status = 1, msg =
[31] AAA FSM: In aaa_backend_callback
aaa_backend_callback: Handle = 31, pAcb = 0x00002aaad352bc80
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 1
[31] AAA FSM: In AAA_ProcSvrResp

Back End response:

Tunnel Group Policy Status: 1 (ACCEPT)

[31] AAA FSM: In AAA_NextFunction
AAA_NextFunction: i_fsm_state = IFSM_TUNN_GRP_POLICY, auth_status = ACCEPT
dACL processing skipped: no ATTR_FILTER_ID found
AAA_NextFunction: New i_fsm_state = IFSM_DONE,
[31] AAA FSM: In AAA_ProcessFinal
Checking simultaneous login restriction (max allowance=3) for user cisco1
Class attribute created from LDAP-Class attribute
[31] AAA FSM: In AAA_Callback

user attributes:

1	User-Name(1)	6	"cisco1"
2	User-Password(2)	13	(hidden)
3	Group-Policy(4121)	6	"Group1"
4	AAA-AVP-Table(4243)	1639	"g[06][00][00]\${00}[00][00]x[01][00][00][8F][01][00][00]"
5	DAP class attribute required(20510)	4	1
6	LDAP-Class(20520)	7	"Group1[00]"

User Access-Lists:

user_acl[0] = NULL

user_acl[1] = NULL

user policy attributes:

<--- Group-Policy Configuration (Group1)

1	Filter-Id(11)	8	" "
2	Session-Timeout(27)	4	0
3	Idle-Timeout(28)	4	30
4	Simultaneous-Logins(4098)	4	3
5	Primary-DNS(4101)	4	IP: 0.0.0.0
6	Secondary-DNS(4102)	4	IP: 0.0.0.0
7	Primary-WINS(4103)	4	IP: 0.0.0.0
8	Secondary-WINS(4104)	4	IP: 0.0.0.0
9	Tunnelling-Protocol(4107)	4	96
10	Banner(4111)	0	0x00002aaad49daa38 ** Unresolved Attribute **
11	Split-Tunnel-Inclusion-List(4123)	8	" "
12	Default-Domain-Name(4124)	0	0x00002aaad49daa41 ** Unresolved Attribute **
13	Secondary-Domain-Name-List(4125)	0	0x00002aaad49daa42 ** Unresolved Attribute **
14	Split-Tunneling-Policy(4151)	4	0
15	Group-giaddr(4157)	4	IP: 0.0.0.0
16	WebVPN SVC Keepalive interval(4203)	4	20
17	WebVPN SVC Client DPD period(4204)	4	30
18	WebVPN SVC Gateway DPD period(4205)	4	30
19	WebVPN SVC Rekey period(4206)	4	0
20	WebVPN SVC Rekey method(4207)	4	0
21	WebVPN SVC Compression(4208)	4	0
22	WebVPN SVC Firewall Rule(4211)	17	"public#,private#,"
23	WebVPN SVC DTLS Compression(4213)	4	0
24	WebVPN SVC DTLS enable(4219)	4	1
25	WebVPN SVC MTU(4221)	4	1406
26	CVC-Modules(4223)	4	"dart"
27	CVC-Profile(4224)	11	"FTD03#user,"
28	CVC-Ask(4227)	4	2

```

29 CVC-Ask-Timeout(4228)      4    0
30 VLAN ID(4236)             4    0
31 WebVPN Idle timeout alert interval(4244)      4    1
32 WebVPN Session timeout alert interval(4245)   4    1
33 List of address pools to assign addresses from(4313) 3    "SSL"
34 SVC ignore DF bit(4326)    4    0
35 Configure the behaviour of DNS queries by the client when Split tunneling is
enabled(4328)      4    0
36 Primary-IPv6-DNS(4329)     16   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 37
Secondary-IPv6-DNS(4330)     16   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 38
Client Bypass Protocol(4331)  4    0
39 IPv6-Split-Tunneling-Policy(4332)            4    0

```

User Policy Access-Lists:

```

user_acl[0] = NULL
user_acl[1] = NULL

```

tunnel policy attributes:

<--- Default Group-Policy

attributes (NOACCESS)

```

1 Filter-Id(11)              8    ""
2 Session-Timeout(27)        4    0
3 Idle-Timeout(28)           4    30
4 Simultaneous-Logins(4098)   4    0
5 Primary-DNS(4101)           4    IP: 0.0.0.0
6 Secondary-DNS(4102)         4    IP: 0.0.0.0
7 Primary-WINS(4103)          4    IP: 0.0.0.0
8 Secondary-WINS(4104)        4    IP: 0.0.0.0
9 Tunnelling-Protocol(4107)   4    96
10 Banner(4111)               0    0x00002aaad2580328  ** Unresolved Attribute **
11 Group-Policy(4121)          8    "NOACCESS"
12 Split-Tunnel-Inclusion-List(4123) 8    ""
13 Default-Domain-Name(4124)   0    0x00002aaad2580331  ** Unresolved Attribute **
14 Secondary-Domain-Name-List(4125) 0    0x00002aaad2580332  ** Unresolved Attribute
**
15 Split-Tunneling-Policy(4151)  4    0
16 Group-giaddr(4157)          4    IP: 0.0.0.0
17 WebVPN SVC Keepalive interval(4203)      4    20
18 WebVPN SVC Client DPD period(4204)       4    30
19 WebVPN SVC Gateway DPD period(4205)     4    30
20 WebVPN SVC Rekey period(4206)           4    0
21 WebVPN SVC Rekey method(4207)           4    0
22 WebVPN SVC Compression(4208)            4    0
23 WebVPN SVC Firewall Rule(4211)          17   "public#,private#,"
24 WebVPN SVC DTLS Compression(4213)        4    0
25 WebVPN SVC DTLS enable(4219)            4    1
26 WebVPN SVC MTU(4221)                    4    1406
27 CVC-Modules(4223)                      4    "dart"
28 CVC-Profile(4224)                       11   "FTD03#user,"
29 CVC-Ask(4227)                            4    2
30 CVC-Ask-Timeout(4228)                    4    0
31 VLAN ID(4236)                             4    0
32 WebVPN Idle timeout alert interval(4244)  4    1
33 WebVPN Session timeout alert interval(4245) 4    1
34 SVC ignore DF bit(4326)                   4    0
35 Configure the behaviour of DNS queries by the client when Split tunneling is
enabled(4328)      4    0
36 Primary-IPv6-DNS(4329)     16   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 37
Secondary-IPv6-DNS(4330)     16   00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 38
Client Bypass Protocol(4331)  4    0
39 IPv6-Split-Tunneling-Policy(4332)            4    0

```

Tunnel Policy Access-Lists:

```

user_acl[0] = NULL
user_acl[1] = NULL

```

Auth Status = ACCEPT

aaai_internal_cb: handle is 31, pAcb is 0x00002aaad352bc80, pAcb->tq.tqh_first is
0x0000000000000000

AAA API: In aaa_close

Checking simultaneous login restriction (max allowance=3) for user cisco1

AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 2

In aaai_close_session (31)

AAA API: In aaa_send_acct_start

ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة مادختساب دن تسمل اذة Cisco تمةرت
ملاعلاء انء مء مء نمة دختسمل معد و تمة مء دقتل ةر شبل او
امك ةق قء نوك ت نل ةللأل ةمچرت لصف أن ةظحال مء ءرء. ةصاأل مء تءل ب
Cisco ةلخت. فرتمة مچرت مء دقء ةل ةل ةفارتحال ةمچرتل عم لاعل او
ىل إأمءءاد ءوچرلاب ةصوء و تامةرتل هذه ةقء نء اهءل وئس م Cisco
Systems (رفوتم طبارل) ةلصلأل ةزءل ءن إل دن تسمل