

FDM مادختساب FTD ىلع جودزمال ISP نيوكت

تايوتحمل

[عمدقم](#)

[سياسال تابلطتم](#)

[تابلطتم](#)

[عمدختسم تانوكم](#)

[نيوكت](#)

[كشلال طي طيختال مسدل](#)

[حصلا نم ققحتال](#)

عمدقم

(ISP) جودزمال تنرتنإلا عمدخ رفوم لشف زواجت نيوكت عيفي دن تسمل اذه حضوي نمآلا عيامل رادج قلسلسل (FDM) عيامل رادج زهجا ريدم مادختساب

سياسال تابلطتم

تابلطتم

ةيلاتال عيضاوملاب ةفرعم كي دل نوكت ناب Cisco ي صوت

- سياسال هيحوتال
- عيامل رادج زهجا قراد تامولعم ةحول ةفرعم
- نمآلا عيامل رادج لقألا ىلع تنرتنإلا عمدخ يرفوم لي صوت مت

عمدختسم تانوكم

ةيلاتال عيامل تانوكملاو جماربال تارادصلإلا دن تسمل اذه يف ةدراول تامولعمل دن تست

· ثدحألا تارادصلإلا وأ 7.7.x رادصلإلا نم Cisco نم نمآلا عيامل رادج لي غشت

· 7.7.0 رادصلإلا عم 3130 نمآلا عيامل رادج

· عصاخ عيامل عيبي يف ةدوجوملا زهجالا نم دن تسمل اذه يف ةدراول تامولعمل عاشنإ مت تناك اذا. (يضا رتفا) حوسم نيوكتب دن تسمل اذه يف عمدختسملا زهجالا عيملج تأب رمأ يأل لم تحمل ريثأتلل كمهف نم دكأف، لي غشتال دي قكتك بش

نيوكتال

1. ةوطخل

رزلا ديدحت لال خ نم تاهجاوالا مسق ىل لاقنتو ،نم آلا ةيامحل راج ىل ع FDM ىل لولخدلا لچس تاهجاوالا عيمج ضرع

FDM ل ةيسئئرلا تامولعمل ةحول

2. ةوطخل

ةهجاوالا رز ديدحت .ةبولطملا ةهجاوالا ديدحتب أدبا ،يساسألا ISP لاصتالا ةهجاوالا نيوكتل Ethernet1/1. يه ةمدختسمل ةهجاوالا ،لاثلما اذه في .ةعباتملل ةقباطملا

NAME	LOGICAL NAME	STATUS	MODE	IP ADDRESS	STANDBY ADDRESS	MONITOR FOR HA	ACTIONS
> Ethernet1/1	1	☐	Routed				
> Ethernet1/2		☐	Routed				
> Ethernet1/3	2	☐	Routed				
> Ethernet1/4		☐	Routed			Enabled	
> Ethernet1/5		☐	Routed			Enabled	
> Ethernet1/6		☐	Routed			Enabled	
> Ethernet1/7		☐	Routed			Enabled	

تاهجاوالا بيوبت ةمالع

3. ةوطخل

اذه في .لكي دل يساسألا ISP لاصتالا ةحيصللا تامولعمل مادختساب ةهجاوالا نيوكتب مق

ي.ساسأجراخ نراقلا، لاثم

Ethernet1/1

Edit Physical Interface

Interface Name

outside_primary

Mode

Routed

Status

Most features work with named interfaces only, although some require unnamed interfaces.

Description

ISP Primary

IPv4 Address

IPv6 Address

Advanced

Type

Static

IP Address and Subnet Mask

172.16.1.1 / 255.255.255.0

e.g. 192.168.5.15/17 or 192.168.5.15/255.255.128.0

Standby IP Address and Subnet Mask

/

e.g. 192.168.5.16

CANCEL

OK

ةساسأل ISP ةهجاو نيوكت

4. ةوطخل

Ethernet1/2 ةهجاو ا مادختسا متي، لاثم اذه ي. ةيوناثل ISP ةهجاو ةيلمعل س فن ررك

Ethernet1/2

Edit Physical Interface



Interface Name

outside_backup

Mode

Routed

Status



Most features work with named interfaces only, although some require unnamed interfaces.

Description

ISP Backup



IPv4 Address

IPv6 Address

Advanced

Type

Static

IP Address and Subnet Mask

172.16.2.1

/

255.255.255.0

e.g. 192.168.5.15/17 or 192.168.5.15/255.255.128.0

Standby IP Address and Subnet Mask

/

e.g. 192.168.5.16

CANCEL

OK

هه وئائال ISP هه وئائال نيوكت

5. ووطخل

هه وئائال SLA هه وئائال دادع ي ف هه وئائال ووطخل لثمتت، ل هه وئائال نيوكت دعب هه وئائال.

هه وئائال يلع ي ف هه وئائال ووطخل لثمتت هه وئائال مسق ي ل لقتنا

Firewall Device Manager | Monitoring | Policies | **Objects** | Device: SF3130

Device Summary
Interfaces

Cisco Secure Firewall 3130 Threat Defense

MGMT
CONSOLE

1/1 1/3 1/5 1/7
1/2 1/4 1/6 1/8

1/9 1/10 1/11 1/12
1/13 1/14 1/15 1/16 SFP

Network Module
Not Installed

Interfaces | Bridge Groups | EtherChannels | Virtual Tunnel Interfaces | Inline Sets

17 Interfaces

NAME	LOGICAL NAME	STATUS	MODE	IP ADDRESS	STANDBY ADDRESS	MONITOR FOR HA	ACTIONS
> Ethernet1/1	outside_primary	☒	Routed	172.16.1.1			
> Ethernet1/2	outside_backup	☒	Routed	172.16.2.1			
> Ethernet1/3	inside	☒	Routed	192.168.1.1			
> Ethernet1/4		☐	Routed			Enabled	
> Ethernet1/5		☐	Routed			Enabled	
> Ethernet1/6		☐	Routed			Enabled	
> Ethernet1/7		☐	Routed			Enabled	
> Ethernet1/8		☐	Routed			Enabled	

انه يوك مت يتا تاهاولا

6. عوطخل

SLA. تاشاش رز، رسيال دومعال في دح

Firewall Device Manager | Monitoring | Policies | **Objects** | Device: SF3130

Network Objects and Groups

8 objects

#	NAME	TYPE	VALUE
1	IPv4-Private-All-RFC1918	Group	IPv4-Private-10.0.0.0-8, IPv4-Private-172.16.0.0-12, IPv4-Private-192.168.0.0-16
2	Gateway-Outside-1	HOST	172.16.1.254
3	IPv4-Private-10.0.0.0-8	NETWORK	10.0.0.0/8
4	IPv4-Private-172.16.0.0-12	NETWORK	172.16.0.0/12
5	IPv4-Private-192.168.0.0-16	NETWORK	192.168.0.0/16
6	Inside	NETWORK	192.168.1.0/24
7	any-ipv4	NETWORK	0.0.0.0/0
8	any-ipv6	NETWORK	:::/0

Filter

Preset filters: System defined, User defined

Ports

- Security Zones
- Application Filters
- URLs
- Geolocations
- Syslog Servers
- IKE Policies
- IPSec Proposals
- Secure Client Profiles
- Identity Sources
- Users
- Certificates
- Secret Keys
- DNS Groups
- Event List Filters
- SLA Monitors**
- SGT Groups

تائكال ةشاش

7. عوطخل

SLA. ةشاش ءاشن رزلا ديدحت قيروط نع ةديج SLA ةشاش ءاشن

Firewall Device Manager | Monitoring | Policies | **Objects** | Device: SF3130

admin Administrator | Cisco SECURE

SLA Monitors

Filter

#	NAME	MONITORED ADDRESS	TARGET INTERFACE	ACTIONS
There are no SLA Monitors yet. Start by creating the first SLA Monitor.				
CREATE SLA MONITOR				

SLA عبقارم مسق

8. عوطخل

يساسأل ISP لاصتا تاملعم نيوكتب مق

Add SLA Monitor Object



Name

Outside_Primary_ISP

Description

Monitor for ISP Primary

Monitor Address

Gateway-Outside-1

Target Interface

outside_primary (Ethernet1/1)

IP ICMP ECHO OPTIONS



Following properties have following correlation: Threshold ≤ Timeout ≤ Frequency

Threshold

5000

milliseconds

0 - 2147483647

Timeout

5000

milliseconds

0 - 604800000

Frequency

60000

milliseconds

1000 - 604800000, multiple of 1000

Type of Service

0

0 - 255

Number of Packets

1

0 - 100

Data Size

28

0 - 16384

bytes

CANCEL

OK

SLA نئىك عاشنى

9. قوطخل

قحول ىل لقتنا .هئاشناب تاهاولل تباثل راسمل موقى نأ بجى ،نئاكل عاشنى درجىب زاهجل رز دىدحتب قيسىئرل تامولعمل

Firewall Device Manager | Monitoring | Policies | Objects | **Device: SF3130**

SLA Monitors

1 object

#	NAME	MONITORED ADDRESS	TARGET INTERFACE	ACTIONS
1	Outside_Primary_ISP	Gateway-Outside-1	outside_primary	

SLA قشاش عاشنى مت

10. قوطخل

هيجوتل قحول فى ضرع نيوكت دىدحتب هيجوتل مسق ىل لقتنا

Firewall Device Manager | Monitoring | Policies | Objects | **Device: SF3130**

Model: Cisco Secure Firewall 3130 Threat Defense | Software: 7.7.0-89 | VDB: 408.0 | Intrusion Rule Update: 20250605-1326 | Cloud Services: Connected | HackaTZ-2025 | High Availability: Not Configured

Inside Network | Cisco Secure Firewall 3130 Threat Defense | Internet

Interfaces: Management: Merged (Enabled 4 of 17) | View All Interfaces

Routing: There are no static routes yet | **View Configuration**

Updates: Geolocation, Rule, VDB, System Upgrade, Security Intelligence Feeds | View Configuration

System Settings: Management Access, Logging Settings, DHCP Server / Relay, DDNS Service, DNS Server, Hostname, Time Services, SSL Settings | See more

Smart License: Registered | View Configuration

Backup and Restore: View Configuration

Troubleshoot: No files created yet | REQUEST FILE TO BE CREATED

قيسىئرل تامولعمل قحول

11. ةوطخل

يفر فوم نم لكل ةيضا رتفا ةتبات تاراسم 2 عاشنإب مق ،"تبات هي جوت" بي وبتل ةمال ع يف .تبات راسم عاشنإ رزلا ددح ،دي دج تبات راسم عاشنإل (ISPs) تنرتنإل تامدخ .

The screenshot shows the Cisco Firewall Device Manager interface. The top navigation bar includes 'Firewall Device Manager', 'Monitoring', 'Policies', 'Objects', and 'Device: SF3130'. The main content area is titled 'Device Summary' and 'Routing'. Below this, there are tabs for 'Static Routing', 'BGP', 'OSPF', 'EIGRP', and 'ECMP Traffic Zones'. The 'Static Routing' tab is active. A message in the center of the page reads: 'There are no static routes yet. Start by creating the first static route.' Below this message is a blue button labeled 'CREATE STATIC ROUTE' which is highlighted with a red rectangular box. The top right of the interface shows the user 'admin Administrator' and the Cisco logo with the word 'SECURE'.

تباتل هي جوتل مسق

12. ةوطخل

يذل SLA ةبقارم نئاك فضا ،ةياهنل يف .يساسأل ISP ل تباتل راسم عاشنإب مق ،الوأ ةريأل ةوطخل يف هؤاشنإ مت .

Add Static Route



Name

Route_ISP_Primary

Description

Static Route for ISP Primary

Interface

outside_primary (Ethernet1/1)

Protocol



IPv4



IPv6

Networks



any-ipv4

Gateway

Gateway-Outside-1

Metric

1

SLA Monitor Applicable only for IPv4 Protocol type

Outside_Primary_ISP

CANCEL

OK

يُستأجر ISP لـ تخطيط المسار

13. مخطط

قرا بع ال م اد خ ت س اب ة ي و ن ا ث ال ISP ل ، ي ض ا ر ت ف ا ر ا س م ء ا ش ن ا و ة ر ي خ ا ل ا ة و ط خ ل ا ر ا ر ك ت ب م ق 200 ل ا ه ت د ا ي ز ت م ت ، ل ا ث م ل ا ا ذ ه ي ف . ف ل ت خ م ل ا س ا ي ق م ل ا و ة ب س ا ن م ل

Add Static Route

?

×

Name

Route_ISP_Backup

Description

Static Route for ISP Backup

Interface

outside_backup (Ethernet1/2)

Protocol

☒ IPv4

☐ IPv6

Networks

+

any-ipv4

Gateway

Gateway-Outside-2

Metric

200

SLA Monitor

Applicable only for IPv4 Protocol type

Please select an SLA Monitor

CANCEL

OK

يوناثان ال ISP ل تباثال راسم

14. ةوطخل

تاناكلا مسق ىل لقتنا .نامأ ةقطنم عاشنإ بجي ،نيتباثال نيءومال الك عاشنإ درءمب ىلألاب ءومال تاناكلا رز ءيءتب

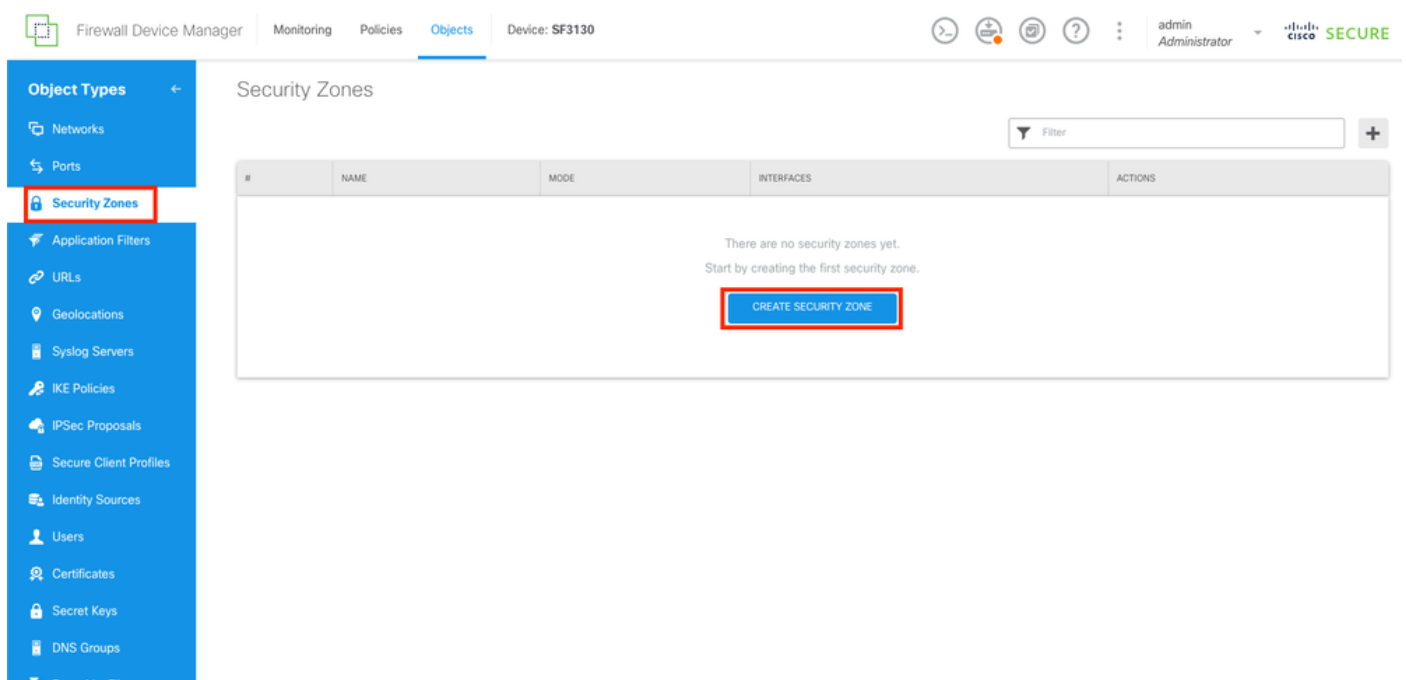


#	NAME	INTERFACE	IP TYPE	NETWORKS	GATEWAY IP	SLA MONITOR	METRIC	ACTIONS
1	Route_ISP_Primary	outside_primary	IPv4	0.0.0.0/0	172.16.1.254	Outside_Primary_ISP	1	
2	Route_ISP_Backup	outside_backup	IPv4	0.0.0.0/0	172.16.2.254		200	

اهؤاشنإ م تيتال ءتباثال تاراسم

15. ةوطخل

مق م ث ،رسيألا ءومال ي ف نامألا قطانم رزلا ءيءتب قيرط نع نامألا قطانم مسق ىل لقتنا .نامأ ةقطنم عاشنإ رزلا ءيءتب قيرط نع ءءيء ةقطنم عاشنإب



ةقطنمألا قطانم مسق

16. ةوطخل

ISPs. تالاصتال ةيچراخل تاهجاوالا لك مادختساب ةيچراخل نامألا ةقطنم عاشناب مق

Add Security Zone

Name

outside_zone

Description

Outside Zone

Mode

☒ Routed

☐ Passive

☐ Inline

Interfaces

+

outside_backup (Ethernet1/2)

outside_primary (Ethernet1/1)

CANCEL

OK

جراخل يف ةينمألا ةقطنملا

17. ةوطخل

جهن رزلا ديدحتب تاسايسلا مسق ىلا لقتنا. NAT عاشنابجي، نامألا ةقطنم عاشناب دعب ىلعألا يف

Firewall Device Manager | Monitoring | **Policies** | Objects | Device: SF3130

Object Types

- Networks
- Ports
- Security Zones**
- Application Filters
- URLs
- Geolocations
- Syslog Servers
- IKE Policies
- IPSec Proposals
- Secure Client Profiles
- Identity Sources
- Users
- Certificates
- Secret Keys
- DNS Groups

Security Zones

2 objects

#	NAME	MODE	INTERFACES	ACTIONS
1	outside_zone	Routed	outside_backup, outside_primary	
2	inside_zone	Routed	inside	

نام ألقاطان عاشن

18. ةوطخل

nat ةدعاق عاشن رزلا ديحتب ةديج ةدعاق عاشن اب مق م ث nat، رز ديحتب nat مسق ىل لقتنا

Firewall Device Manager | Monitoring | **Policies** | Objects | Device: SF3130

Security Policies

→ ☐ SSL Decryption → ☐ Identity → ☐ Security Intelligence → **☒ NAT** → ☒ Access Control → ☐ Intrusion

Filter

#	NAME	TYPE	INTERFACES	ORIGINAL PACKET				TRANSLATED PACKET				ACTIONS
				SOURCE AD...	DESTINATIO...	SOURCE PORT	DESTINATIO...	SOURCE AD...	DESTINATIO...	SOURCE PORT	DESTINATIO...	
There are no NAT Rules yet. Start by creating the first NAT rule. CREATE NAT RULE												

مسق nat

19. ةوطخل

تاه اوالا ربع ديخت جاحسم نيوكتلل نوكي نأ بجي، ISP لوكوتورب لشف زواجتل ةبسنلاب
يساسأل ISP ب ةيساسأل ةيجراخالا ةهجالا لاصتال، الوأ. ةيجراخال

Add NAT Rule

Title

Create Rule for

Status

To_Internet

Auto NAT

Auto NAT rules translate a specified host or network address regardless of its appearance as the source or destination address of a packet. These rules are automatically ordered and placed in the Auto NAT section.

Placement

Type

Automatically placed in Auto NAT rules

Dynamic

Packet Translation

Advanced Options

ORIGINAL PACKET

Source Interface

inside

Original Address

Inside

Original Port

Any

TRANSLATED PACKET

Destination Interface

outside_primary

Translated Address

Interface

Translated Port

Any

Show Diagram

CANCEL

OK

يُساس ISP ل NAT

20. ةوطخ

ي.ونال ISP ل اصلال نال nat، نال

ةبسننل اب، لاللم اذه ي ف. ةكبشال سفن مادختس لنكم ي ال، يلصلال ناونعلل :ةظالم any-IPv4. نئالل وه يلصلال ناونعلل نوكي، يونال تال نال تامدخ رومل

Edit NAT Rule

Title

Create Rule for

Status

To_Internet_Backup

Auto NAT

Auto NAT rules translate a specified host or network address regardless of its appearance as the source or destination address of a packet. These rules are automatically ordered and placed in the Auto NAT section.

Placement

Type

Automatically placed in Auto NAT rules

Dynamic

Packet Translation

Advanced Options

ORIGINAL PACKET

Source Interface

inside

Original Address

any-ipv4

Original Port

Any

TRANSLATED PACKET

Destination Interface

outside_backup

Translated Address

Interface

Translated Port

Any

Show Diagram

CANCEL

OK

يوناثان ال ISP ل NAT

21. ةوطخل

رورم ال ةكرب خامسلل لوصولل في مكحتل ةءاق ءاشنل بجي ، NAT ءءاوق نم لك ءاشنل ءعب لوصولل في مكحتل رزلل ءء. ءرءاصلل

Security Policies

→ ☐ SSL Decryption → ☐ Identity → ☐ Security Intelligence → ☒ NAT → ☒ Access Control → ☐ Intrusion

2 rules

Filter +

#	NAME	TYPE	INTERFACES	ORIGINAL PACKET				TRANSLATED PACKET				ACTIONS
				SOURCE AD...	DESTINATIO...	SOURCE PORT	DESTINATIO...	SOURCE AD...	DESTINATIO...	SOURCE PORT	DESTINATIO...	
Auto NAT Rules												
>	# To_Internet	DYNAMIC	↓ Inside outside_pr...	Inside	ANY	ANY	ANY	Interface	ANY	ANY	ANY	
>	# To_Internet_Ba...	DYNAMIC	↓ Inside outside_b...	any-ipv4	ANY	ANY	ANY	Interface	ANY	ANY	ANY	

NAT دعاوق عاشنإ مت

22. ةوطخل

لوصول دعاوق عاشنإ رزلا دح ، لوصول اب مكحتل دعاوق عاشنإ

Security Policies

→ ☐ SSL Decryption → ☐ Identity → ☐ Security Intelligence → ☒ NAT → ☒ Access Control → ☐ Intrusion

Filter   +

#	NAME	ACTION	SOURCE			DESTINATION			APPLICATIONS	URLS	USERS	ACTIONS
			ZONES	NETWORKS	PORTS	ZONES	NETWORKS	PORTS				
There are no access rules yet. Start by creating the first access rule. CREATE ACCESS RULE												

Default Action Access Control  Block  

لوصول يف مكحتل مسق

23. ةوطخل

ةبولطملا تاكبشل او قطانملا دح

Add Access Rule

Order
1

Title
To_Internet

Action
Allow

Source/Destination
Applications
URLs
Users
Intrusion Policy
File policy
Logging

SOURCE

Zones
+

Networks
+

Ports
+

SGT Groups
+

DESTINATION

Zones
+

Networks
+

Ports
+

SGT Groups
+

inside_zone

Inside

ANY

ANY

outside_zone

ANY

ANY

ANY



لوصول الى مكدات الدعا

24. ووطال

قيرط نع تاريخيغتال ةفاك رشنل ةعباتملاب مق ،"لوصولاب مكداتل الدعا" عاشنإ درجمب
ىلعالاب دوجومل رشن رزلل دىدت

Firewall Device Manager
Monitoring
Policies
Objects
Device: SF3130

Security Policies

→

SSL Decryption

→

Identity

→

Security Intelligence

→

NAT

→

Access Control

→

Intrusion

1 rule

Filter

#	NAME	ACTION	SOURCE			DESTINATION			APPLICATIONS	URLS	USERS	ACTIONS
			ZONES	NETWORKS	PORTS	ZONES	NETWORKS	PORTS				
> 1	To_Internet	Allow	inside_zone	Inside	ANY	outside_zone	ANY	ANY	ANY	ANY		

Default Action
Access Control
Block

لوصولاب مكداتل الدعا عاشنإ مت

25. عوطخل

نآل رشن رزلا ددح م ث تاريغيغتلا نم ققحت

Pending Changes?×

✔ Last Deployment Completed Successfully

10 Jun 2025 12:35 PM. [See Deployment History](#)

Deployed Version (10 Jun 2025 12:35 PM)	Pending Version LEGEND																				
+ Access Rule Added: <i>To_Internet</i> <table><tbody><tr><td>-</td><td>logFiles: false</td></tr><tr><td>-</td><td>eventLogAction: LOG_NONE</td></tr><tr><td>-</td><td>ruleId: 268435458</td></tr><tr><td>-</td><td>name: To_Internet</td></tr><tr><td>sourceZones:</td><td></td></tr><tr><td>-</td><td>inside_zone</td></tr><tr><td>destinationZones:</td><td></td></tr><tr><td>-</td><td>outside_zone</td></tr><tr><td>sourceNetworks:</td><td></td></tr><tr><td>-</td><td>Inside</td></tr></tbody></table>		-	logFiles: false	-	eventLogAction: LOG_NONE	-	ruleId: 268435458	-	name: To_Internet	sourceZones:		-	inside_zone	destinationZones:		-	outside_zone	sourceNetworks:		-	Inside
-	logFiles: false																				
-	eventLogAction: LOG_NONE																				
-	ruleId: 268435458																				
-	name: To_Internet																				
sourceZones:																					
-	inside_zone																				
destinationZones:																					
-	outside_zone																				
sourceNetworks:																					
-	Inside																				
+ Security Zone Added: <i>inside_zone</i> <table><tbody><tr><td>-</td><td>mode: ROUTED</td></tr><tr><td>-</td><td>description: Inside Zone</td></tr><tr><td>-</td><td>name: inside_zone</td></tr><tr><td>interfaces:</td><td></td></tr><tr><td>-</td><td>inside</td></tr></tbody></table>		-	mode: ROUTED	-	description: Inside Zone	-	name: inside_zone	interfaces:		-	inside										
-	mode: ROUTED																				
-	description: Inside Zone																				
-	name: inside_zone																				
interfaces:																					
-	inside																				
+ SLA Monitor Added: <i>Outside_Primary_ISP</i> <table><tbody><tr><td>-</td><td>slaOperation.frequency: 60000</td></tr><tr><td>-</td><td>slaOperation.threshold: 5000</td></tr><tr><td>-</td><td>slaOperation.dataSize: 28</td></tr><tr><td>-</td><td>slaOperation.numOfPackets: 1</td></tr><tr><td>-</td><td>slaOperation.typeOfService: 0</td></tr><tr><td>-</td><td>slaOperation.timeout: 5000</td></tr><tr><td>-</td><td>description: Monitor for ISP Primary</td></tr><tr><td>-</td><td>name: Outside_Primary_ISP</td></tr></tbody></table>		-	slaOperation.frequency: 60000	-	slaOperation.threshold: 5000	-	slaOperation.dataSize: 28	-	slaOperation.numOfPackets: 1	-	slaOperation.typeOfService: 0	-	slaOperation.timeout: 5000	-	description: Monitor for ISP Primary	-	name: Outside_Primary_ISP				
-	slaOperation.frequency: 60000																				
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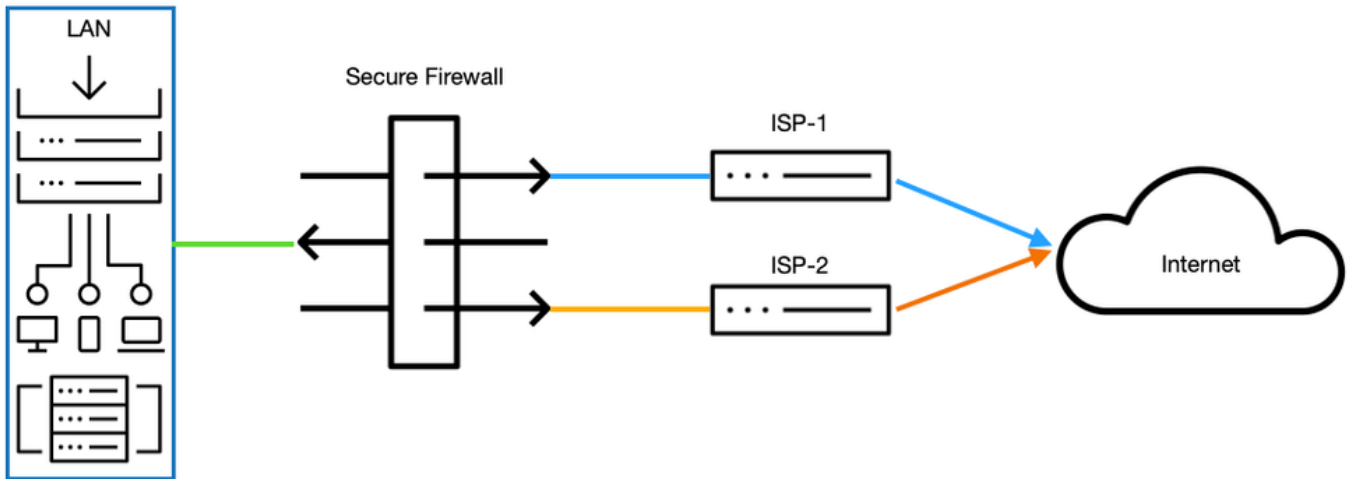
MORE ACTIONS ▾

CANCEL

DEPLOY NOW ▾

رشنلا نم ققحتلا

ةكبشلل يطيختلا مسرلا



ةكبش لل يطي طختلا مسرلا

ةحصللا نم ققحتلا

<#root>

>

system support diagnostic-cli

Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach.
Type help or '?' for a list of available commands.

SF3130#

show ip

System IP Addresses:

Interface	Name	IP address	Subnet mask	Method
Ethernet1/1	outside_primary	172.16.1.1	255.255.255.0	manual

-----> **THE PRIMARY INTERFACE OF THE ISP IS SET**

Ethernet1/2	outside_backup	172.16.2.1	255.255.255.0	manual
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-----> **THE SECONDARY INTERFACE OF THE ISP IS SET**

Ethernet1/3	inside	192.168.1.1	255.255.255.0	manual
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SF3130#

show interface ip brief

Interface	IP-Address	OK?	Method	Status	Protocol
Ethernet1/1	172.16.1.1	YES	manual	up	up

-----> **THE INTERFACE IS UP AND RUNNING**

Ethernet1/2 172.16.2.1 YES manual up up

-----> THE INTERFACE IS UP AND RUNNING

Ethernet1/3 192.168.1.1 YES manual up up

SF3130#

show route

Gateway of last resort is 172.16.1.254 to network 0.0.0.0

S* 0.0.0.0 0.0.0.0 [1/0] via 172.16.1.254, outside_primary

----> THE DEFAULT ROUTE IS CONNECTED THROUGH THE PRIMARY ISP

C 172.16.1.0 255.255.255.0 is directly connected, outside_primary

L 172.16.1.1 255.255.255.255 is directly connected, outside_primary

C 172.16.2.0 255.255.255.0 is directly connected, outside_backup

L 172.16.2.1 255.255.255.255 is directly connected, outside_backup

C 192.168.1.0 255.255.255.0 is directly connected, inside

L 192.168.1.1 255.255.255.255 is directly connected, inside

SF3130#

show run route

route outside_primary 0.0.0.0 0.0.0.0 172.16.1.254 1 track 1

route outside_backup 0.0.0.0 0.0.0.0 172.16.2.254 200

SF3130#

show sla monitor configuration

---> CHECKING THE SLA MONITOR CONFIGURATION

SA Agent, Infrastructure Engine-II

Entry number: 539523651

Owner:

Tag:

Type of operation to perform: echo

Target address: 172.16.1.254

Interface: outside_primary

Number of packets: 1

Request size (ARR data portion): 28

Operation timeout (milliseconds): 3000

Type Of Service parameters: 0x0

Verify data: No

Operation frequency (seconds): 3

Next Scheduled Start Time: Start Time already passed

Group Scheduled : FALSE

Life (seconds): Forever

Entry Ageout (seconds): never

Recurring (Starting Everyday): FALSE

Status of entry (SNMP RowStatus): Active

Enhanced History:

SF3130#

show sla monitor operational-state

Entry number: 739848060
Modification time: 01:24:11.029 UTC Thu Jun 12 2025
Number of Octets Used by this Entry: 1840
Number of operations attempted: 0
Number of operations skipped: 0
Current seconds left in Life: Forever
Operational state of entry: Pending
Last time this entry was reset: Never
Connection loss occurred: FALSE
Timeout occurred: FALSE

-----> **THE ISP PRIMARY IS IN A HEALTHY STATE**

Over thresholds occurred: FALSE
Latest RTT (milliseconds) : Unknown
Latest operation return code: Unknown
Latest operation start time: Unknown

AFTERARGBSETHBNDGFSHNDFGSDDBFB

SF3130#

show interface ip brief

Interface	IP-Address	OK?	Method	Status	Protocol
Ethernet1/1	172.16.1.1	YES	manual	down	down

-----> **THE PRIMARY ISP IS DOWN**

Ethernet1/2	172.16.2.1	YES	manual	up	up
Ethernet1/3	192.168.1.1	YES	manual	up	up

SF3130#

show route

Gateway of last resort is 172.16.2.254 to network 0.0.0.0

S* 0.0.0.0 0.0.0.0 [200/0] via 172.16.2.254, outside_backup

-----> **AFTER THE ISP PRIMARY FAILS, INSTANTLY THE ISP BACKUP IS FAILOVER AND IS INSTALL IN THE ROUTE**

C	172.16.2.0	255.255.255.0	is directly connected, outside_backup
L	172.16.2.1	255.255.255.255	is directly connected, outside_backup
C	192.168.1.0	255.255.255.0	is directly connected, inside
L	192.168.1.1	255.255.255.255	is directly connected, inside

SF3130#

show sla monitor operational-state

Entry number: 739848060
Modification time: 01:24:11.140 UTC Thu Jun 12 2025
Number of Octets Used by this Entry: 1840
Number of operations attempted: 0
Number of operations skipped: 0
Current seconds left in Life: Forever

Operational state of entry: Pending
Last time this entry was reset: Never
Connection loss occurred: FALSE
Timeout occurred: TRUE

-----> AFTER THE DOWNTIME OF THE PRIMARY ISP THE TIMEOUT IS FLAGGED

Over thresholds occurred: FALSE
Latest RTT (milliseconds) : Unknown
Latest operation return code: Unknown
Latest operation start time: Unknown

SF3130#

show route

Gateway of last resort is 172.16.1.254 to network 0.0.0.0

S* 0.0.0.0 0.0.0.0 [1/0] via 172.16.1.254, outside_primary

-----> AFTER A FEW SECONDS ONCE THE PRIMARY INTERFACE IS BACK THE DEFAULT ROUTE INSTALLS AGAIN IN

C 172.16.1.0 255.255.255.0 is directly connected, outside_primary
L 172.16.1.1 255.255.255.255 is directly connected, outside_primary
C 172.16.2.0 255.255.255.0 is directly connected, outside_backup
L 172.16.2.1 255.255.255.255 is directly connected, outside_backup
C 192.168.1.0 255.255.255.0 is directly connected, inside
L 192.168.1.1 255.255.255.255 is directly connected, inside

ةمچرتل هذه ل و ح

ةيلآل ا تاي ن ق ت ل ا ن م ة و م ج م ا د خ ت س ا ب د ن ت س م ل ا ا ذ ه Cisco ت م ج ر ت م ل ا ع ل ا ا ح ن ا ع م ج ي ف ن ي م د خ ت س م ل ل م ع د ي و ت ح م م ي د ق ت ل ة ي ر ش ب ل ا و ا م ك ة ق ي ق د ن و ك ت ن ل ة ي ل آ ة م ج ر ت ل ض ف ا ن ا ة ط ح ا ل م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب Cisco ي ل خ ت . ف ر ت ح م م ج ر ت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة م ج ر ت ل ا ع م ل ا ح ل ا و ه ي ل ا ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا م ج ر ت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا د ن ت س م ل ا