Forcepoint ONE Integrated with Aruba SD-WAN



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Introduction

The Forcepoint ONE cloud SWG solution enables web traffic filtering when a SmartEdge agent cannot be deployed on the end-user's machine such as for guest users, IoT devices or when the organization chooses not to deploy an agent.

To filter the web traffic, the Forcepoint ONE SWG routes the customer's web traffic from one or more location(s) over the tunnel to Forcepoint ONE where the SWG functionality is implemented. The Forcepoint ONE SWG implements a transparent proxy, meaning that a PAC file is not required on the end users' devices to forward traffic to it. The Forcepoint ONE SWG solution supports GRE and IPsec modes of tunneling as some network devices only support IPsec tunneling, and others support GRE tunneling.

IPSec Overview

IPsec is an extension of the IP protocol that provides secure traffic tunneling by authenticating and encrypting information sent over a network. The IPsec protocol uses Internet Key Exchange (IKE) to establish session keys for encryption and decryption and Encapsulating Security Payload (ESP) to provide data confidentiality and integrity. Traffic to the Forcepoint ONE Cloud SWG service can be fully encapsulated in tunnel mode, providing complete traffic encryption. IPsec connectivity can also support sites that connect to the Internet with a dynamic IP address, using a fully qualified domain name (FQDN) as the device IKE ID.

Forcepoint ONE Cloud recommends that you configure edge devices with 2 tunnel connections, using different Forcepoint ONE data center addresses for geographic redundancy. Tunnels should be configured in an active/standby configuration with automatic failover. Each data center has a tunnel monitoring address that can be used to monitor the status of the connection. The Edge device (firewall or router) at the customer's site must be configured to send only web traffic on TCP ports 80 and 443 over the tunnel to SWG. All other traffic should be routed direct to the Internet. If traffic is sent over the tunnel using any other port(s), it will be discarded. This guide describes how to configure HPE Aruba SD-WAN using the Forcepoint ONE IPsec tunnel configurations. The IPsec configuration below utilizes the HPE Aruba SD-WAN commands and concepts.



This document is for users

- Who are expert network engineers and have prior experience in configuring GRE and IPsec tunnels on various edge devices (firewalls and routers).
- Who would like to know about GRE or IPsec tunnel configurations on the Forcepoint ONE portal and on the edge devices.

Related Documents

Aruba SD-WAN Documents: https://www.arubanetworks.com/techdocs/sdwan/

Forcepoint ONE Configuration

This section details the configuration requirements to set-up the IPsec tunnel in the Forcepoint ONE portal.

Creating Sites

A site represents a corporate location from which traffic will originate. While creating a site, you can configure either a GRE or IPsec tunnel through which traffic should be routed to the cloud and create or add subnet groups within the site.

To create a new corporate site, follow these steps:

- 1. Navigate to Protect> Objects> Sites.
- 2. On the Sites page, click the green plus icon.
- 3. On the General tab.
 - a) Enter a unique **Name** for the site.
 - b) Select the appropriate Time Zone of the corporate IP location.
 - c) Enter a **Description** for the Site.
 - d) Enter the Public IP address of the site.
 - Forcepoint ONE validates the IP address to make sure that the value is an IP address and not a duplicate of another site with the same IP address.
 - e) Set the **Identify Coordinates** to **Automatic** to identify the location of the site based on the entered IP address when you click **Detect Location**.
 - Location will display the location name of the entered IP address.
 - f) If you need a finer coordinate or Forcepoint ONE is unable to identify the location of the entered IP address, then set the **Identify Coorindates** to **Maunal** and enter the **Latitude** and **Longitude**.

| SITE | | n* |
|--------------------------------|-----------------------------|-----------|
| General | General | TUNNELS > |
| Lagevonneu | | |
| Tunnels IPSEC, us-east-1b-1 | NME- | |
| Subnets | Eugeconnect | |
| EdgeConnect - G4L | America/Montreal | |
| | | |
| | | |
| | PUBLIC IP () | |
| | 51.161.19.112 | |
| | IDENTIFY LOCATION © | |
| | AUTOMATIC O MANUAL | |
| | DETECT LOCATION Location: - | |
| | | |

4. On the Tunnels tab

- a) Select the Type as IPsec.
- b) Select whether the site uses its Public IP address or a FQDN from the Site IKE Identity Type.
- c) Enter either the Public IP address or a FQDN in the Site IKE Identity as from the Site IKE Identity Type selection.
 - When the Site IKE Identity Type is set to a Public IP address you can also enter a Dynamic IP address. The IP address that was assigned dynamically by any one of the ISPs connected to the site in the Site IKE Identity field. This Dynamic IP address can change over time and is used as a tag to match any Location Policies for the site on the Protect > Policies page.
- d) Select whether you will Use Your Own Key or an Auto-generated Key from the Preshared Key Type.

e) Enter the **Preshared Key** configured on the site firewall or router OR click the **Generate Key** to autogenerate a key to use while configuring the site firewall or router.

- \circ $\,$ The Preshared Key is case sensitive and must be a minimum of 8 charaters.
- f) Select the Data Center where the primary tunnel from the site is terminated.
- g) Select the Data Center where the secondary tunnel from the site is terminated.
 - Select a Data Center that is in a different region or zone than the Primary Data Center. If you do
 not want to assing a Secondary Data Center then select None from the Secondary Data Center
 drop-down list.

| eneral ágeConnect | <pre> GENERAL </pre> | Tunnels | SUBNE |
|---|---|--|-------|
| unnels SEC, us-east-1b-1, us-east-1b-1 ubnets dgeConnect - G4L | Configure tunnels from this site to the Forcepoint Cloud TYPE © O GRE PPSEC NONE | | |
| | SITE WE DOMITY TYPE O | sint ka centrity ⊙ - edgeconnect.d3monstrate.com | |
| | Ресымер кеу тик ⊙ Auto-generate key | PMESHARED KEY ⊙ → PBWJbwfmUdE/yyhlSkNadHZg1t0/4rZ | Б |
| | CLOUG RE BONTITY TYPE ID | GENERATE KEY | |
| | PRIMARY DATACONTER © | BECONDARY DATACENTER © | |

- 5. On the **Subnets** tab (Optional)
 - Define the Subnets or reuse the configured Subnets with the site. Subnets are unique within a site.
 However, in large cookie cutter network deployments the same Subnet may be used in multiple sites.
 Combination of Site and Subnet is globally unique.
 - a) To add Subnet(s) defined in Protect > Objects > Custom Locations page click the green plus icon and a Subset will appear.
 - b) From the **Name** drop-down list select the applicable Subset. The details of the selected Subset will appear, and you can add as many Subsets as required.

- c) To create a new Subset for the site
 - Click the arrow button and select **Create New** and then the **Create Subnet** dialog will open.
 - Enter a unique **Name** of the location for easy identification.
 - Select the Traffic Type for the subnet addresses in the custom location.
 - Enter the **IP Address**, one per line in CIDR notation. Custom locations should be external internet facing addresses and can be an IP address, subnets or ranges on individual lines.
 - Leave the Trustd IP Addresses checkbox unchecked. Then click Save to save the custom location details.
- ci) To configure a site with selected information, click **OK**.
 - As soon as the Site is created, the status of the Site will be **Configuring**. After some time, the status of the Site will change to **Provisioned** or **Failed**. A tunnel takes approximately 3 minutes for it to be Provisioned.

| SITE | | | | |
|--|---|-------------------------------|------------------------|-----|
| General EdgeConnect | ✓ TUNNELS | St | ubnets | |
| Tunnels IPSEC, us-east-1b-1, us-east-1b-1 | Subnets Create Subnet-groups within the Site and assign them to th | he appropriate Traffic Groups | | |
| Subnets EdgeConnect - G4L | Name | Subnets | Traffic Type | • • |
| | EdgeConnect - G4L | ✓ 10.20.20.0/24 | EdgeConnect - Internal | × |

Viewing Tunnels

After creating tunnels, you can monitor the status of each tunnel under the **Analyze**> **Tunnels** page. The status of the tunnel can be **Configuring**, **Provisioned**, **Failed**, **Up** or **Down**.

A tunnel typically takes approximately 3 minutes to be **Provisioned**, and then the status will change to **Down**. Once the status of the tunnel is **Down**, the IPsec tunnel status will change to **Up** only when customer's firewall or router is correctly configured and there is successful communication between router and cloud.

| Tunnels | | | | |
|-------------------|-------|-----------|--------|---------------|
| SITE | TYPE | LINK | STATUS | CONFIGURATION |
| Cisco-Azure-Site4 | IPsec | Secondary | Up | Setup Info |
| Cisco-Azure-Site4 | IPsec | Primary | Up | Setup Info |

To view the configuration details of the tunnel, click the **Setup Info** link for the tunnel in question. These details are useful for configuring the customer's firewall or router. The customer's Edge device (firewall or router) must be configured to send only web traffic on TPC ports 80 and 443 over the tunnel to the cloud SWG. All other traffic should be routed direct to the Internet. If traffic over any other port(s) is sent over the tunnel, it will be discarded.

When clicking on the Setup Info link for the Primary IPsec tunnel the following details are displayed

| SITE IKE ID | | | |
|---|--|-----------------------|---|
| edgeconnect.d3monstrate.com | | | Б |
| CLOUD FQDN | | | |
| dynamics3curity-4.va.us.vpn.forcepo | nt.io | | Ð |
| CLOUD IKE ID | | | |
| dynamics3curity-4.va.us.vpn.forcepo | nt.io | | Ð |
| PRE-SHARED KEY | | | |
| 4acb3b4GCWBztuf6djXRYcgUJCchY | /03 | | ß |
| MONITORING IP | | | |
| 116.50.59.230 | | | Ð |
| Supported Settings: | | | |
| IKE Parameters (Version supported: IKEv2 | (Bold = recommended) | | |
| Ciphers: AES-128, AES-256 | Digest: SHA2 256bit | DH Groups: 14, 19, 20 | |
| Auth Method: Pre-shared key | Lifetime: 24 hours | PFS: Not Supported | |
| IKE ID Support: FQDN (hostname), Public I | P Address | | |
| IPsec Parameters | | | |
| Type: ESP | Digest: SHA2 256bit | Lifetime: 8 hours | |
| Ciphers: AES-GCM-128, AES-GCM-256, A | ES-128, AES-256, Null | | |

When clicking on the Setup Info link for the Secondary IPsec tunnel the following details are displayed

| SITE IKE ID | | | |
|--|------------------------|-----------------------|---------|
| edgeconnect.d3monstrate.net | | | <u></u> |
| CLOUD FQDN | | | |
| fp-se-4.va.us.vpn.forcepoint.io | | | Ð |
| CLOUD IKE ID | | | |
| fp-se-4.va.us.vpn.forcepoint.io | | | Ū |
| PRE-SHARED KEY | | | |
| j3ddS49zFvnWrLXIBOVeInP/KjYf+6+f | | | Ð |
| MONITORING IP | | | |
| 116.50.59.230 | | | ß |
| Supported Settings: | | | |
| IKE Parameters (Version supported: IKEv2 |) (Bold = recommended) | | |
| Ciphers: AES-128, AES-256 | Digest: SHA2 256bit | DH Groups: 14, 19, 20 | |
| Auth Method: Pre-shared key | Lifetime: 24 hours | PFS: Not Supported | |
| IKE ID Support: FQDN (hostname), Public II | P Address | | |
| IPsec Parameters | | | |
| Type: ESP | Digest: SHA2 256bit | Lifetime: 8 hours | |
| Ciphers: AES-GCM-128, AES-GCM-256, A | ES-128. AES-256. Null | | |

| Sites | | | | |
|---|---|---------------|-------------|---|
| A Site represents a corporate loc Create sites for each of your loca | ation from which traffic will originate. ations here | | | |
| Site | Description | Public IP | Status | 0 |
| REMOTE-SITE-01 - IPSec | | 1.1.1.1 | Provisioned | × |
| REMOTE-SITE-01 - GRE | | 1.1.1.2 | Provisioned | × |
| SEU Lab Tunnel - Chris | | 51.79.47.109 | Provisioned | × |
| EdgeConnect - Timo | | 51.161.19.112 | Provisioned | × |
| EdgeConnect - Jonathan | | 72.214.27.139 | Provisioned | × |
| | | | | |

Aruba SD-WAN Configuration

This section details the required configuration that must be applied on the Edge device using the details from the **Analyze**> **Tunnels** page in the Forcepoint ONE portal.

This document shows an example environment for information and guidance only. While every effort has been made to ensure the accuracy of this information, we advise to consult the latest documentation for your Edge device and test your configuration thoroughly. For detailed information on Aruba SD-WAN refer to the Aruba SD-WAN Documentation.



Maximum Segment Size (MSS)

The encapsulation overhead of the IPsec tunnel means that TCP sessions sent over the tunnel must be limited to the lower MSS than usual. Most TCP clients will propose an MSS value of 1460 bytes when connecting over an Ethernet network.

Forcepoint ONE recommends setting an MSS value of no more than 1360 bytes in order to leave overhead for IPsec encapsulation. This can often be achieved by using the MSS clamping feature of a firewall or router to ensure that any TCP traffic sent down the tunnel is limited to an MSS value of 1360.

Where the WAN connection to the Forcepoint ONE data center, uses the IPoE or PPPoE protocol, the MSS value may need to be lowered to account for the encapsulation overhead of the WAN connection. To display the current MSS setting for your tunnel interface, use the appropriate **show interface** command on your Edge device.

Supported IPSec Settings

For IPsec connectivity, your Edge device must be configured to use the Forcepoint supported IKE tunnel negotiation and IPsec encryption settings.

| eappentea taimer negetiation an | |
|---------------------------------|----------------------------------|
| Setting | Supported (Recommended in Bold) |
| IKE version | IKEv2 – (RFC 7296, October 2014) |
| | AES-128 |
| IKE cipher | AES-256 |
| IKE message digest | SHA2, length 256 |
| | 14 |
| DH groups | 19 |
| | 20 |
| IPsec type | ESP |
| | AES-GCM-128 |
| IDaga sishar | AES-GCM-256 |
| IPsec cipner | AES-128 |
| | AES-256 |
| IPsec message digest | SHA2, length 256 |
| Authentication method | Pre-shared key |
| IKE lifetime | 24 hours |
| IPsec lifetime | 8 hours |
| | FQDN (hostname) |
| INE ID support | Public IP address |
| Perfect Forward Secrecy (PFS) | Not supported |

Supported tunnel negotiation and encryptions settings

Abbreviations for Configuration Parameters in IPsec Examples

Abbreviations are used for configuration parameters in the configuration examples. Replace the abbreviations with the appropriate addresses and values for your configuration.

| Parameter | Description |
|---|--|
| <supported_ipsec_cipher></supported_ipsec_cipher> | Select an IPsec cipher supported by the service. |
| <supported_ike_cipher></supported_ike_cipher> | Select an IKE cipher supported by the service. |
| <supported_dh_group></supported_dh_group> | Select a DH group supported by the service. |
| <primary_destination_address></primary_destination_address> | The Cloud FQDN of the Forcepoint ONE data center for your primary tunnel. Displayed for the connection in the Analyze > Tunnels > Setup Info in Forcepoint ONE portal. To know the public IP address of the primary data center, you need to look up using the Cloud FQDN. |
| <secondary_destination_address></secondary_destination_address> | The Cloud FQDN of the Forcepoint ONE data center for your secondary tunnel. Displayed for the connection in the Analyze > Tunnels > Setup Info in Forcepoint ONE portal. To know the public IP address of the secondary data center, you need to look up using the Cloud FQDN. |
| <outgoing_interface></outgoing_interface> | The name of the egress interface on your edge device. |
| <pre-shared_key></pre-shared_key> | The pre-shared key configured for the tunnel. Must match the key configured for the connection and can be found under the Analyze > Tunnels > Setup Info in Forcepoint ONE portal. |
| <local_fqdn_id></local_fqdn_id> | The FQDN (DNS hostname) of the edge device. |
| <public_egress_ip></public_egress_ip> | The public egress IP address of the edge device. |
| <primary_cloud_ike_id></primary_cloud_ike_id> | The Cloud IKE ID for the Forcepoint ONE primary data center. Displayed for the connection under the Analyze > Tunnels > Setup Info in Forcepoint ONE portal. |
| <secondary_cloud_ike_id></secondary_cloud_ike_id> | The Cloud IKE ID for the Forcepoint ONE secondary data center. Displayed for the connection under the Analyze > Tunnels > Setup Info in Forcepoint ONE portal. |
| <primary_monitoring_address></primary_monitoring_address> | The tunnel monitoring IP address for the primary tunnel connection. Displayed for the connection under the Analyze > Tunnels > Setup Info in Forcepoint ONE portal. |
| <secondary_monitoring_address></secondary_monitoring_address> | The tunnel monitoring IP address for the secondary tunnel connection. Displayed for the connection under the the Analyze > Tunnels > Setup Info in Forcepoint ONE portal. |
| <client_subnet></client_subnet> | IP address range for the internal subnet whose traffic will be forwarded to the tunnel. |
| <dummy_subnet#_ip#></dummy_subnet#_ip#> | Dummy private IP addresses used as the inner tunnel IP addresses for routing traffic to the tunnel interface. |

Resolve Forcepoint Cloud FQDN

Forcepoint ONE SSE provides FQDN endpoint. Utilizing the ping utility in the Edge Connection you can resolve the FQDN into an IP address. In this example below the FQDN **fp-se4.va.us.vpn.forcepoint.io** resolves into **52.210.134.75**. Perform this step for the Primary and Secondary Tunnel.

| licoling | Configuration | Administration | Maintenance | Support | | |
|----------|----------------|----------------|------------------|-----------------|-----------|---------|
| ing/Tra | ceroute 🕐 | | | | | |
| Networ | k Connectivity | | | | | |
| Pin | g Tracerout | e IP/Hostname | fp-se-4.va.us.vp | n.forcepoint.io | Segment [| Default |
| Options | 1 | | | | | |
| | | | | | | |
| | | | | | | |
| Start | Class | | | | | |
| | Ciedi | | | | | |
| Start | | | | | | |

Configure Primary Tunnel

In the Aruba Navigate to the Tunnel configuration to configure both Primary and Secondary Tunnel.

ſ

General Tunnel Settings

| Alias: <your descriptive="" name=""></your> | General IKE IPsec | |
|--|-----------------------|--|
| Mode: IPSec | General | |
| IPsec Suite B Preset: None | Alias Mode | Forcepoint-ONE-US-EAST-1A |
| Local IP: <edgeconnect ip=""></edgeconnect> | IPSec Suite B Preset | None 🗸 |
| Remote IP: <fone ip-address=""></fone> | Admin | up 🗸 |
| NAT: None | Local IP Remote IP | 192.168.123.254 - Default 107.23.63.125 |
| Peer/Service: <lable in="" overlays="" to="" use=""></lable> | NAT | none 🗸 |
| Auto Max BW: 1000000(Auto) | Peer/Service | FONE-US-EAST-1A |
| | Auto Max BW Enabled | |
| | Max BW Kbps | 1000000(Auto) |
| | Kbps | |

IKE Settings

Preshared Key: <PSK from FONE> Authentication Algorithm: SHA2-256 Encryption Algorithm: AES-CBC-256 Diffie-Hellman Group: 19 Lifetime: 1440 minutes Dead Peer Dection: 10 seconds / 3 retires Local IKE Identifier: <FONE SITE IKE ID> Remote IKE Identifier: <FONE SITE Cloud ID> Phase-1 Mode: N.A KE Version: IKE v2

| General | IKE | IPsec | | |
|-------------|-----------|---------|--------------------|-----------|
| KE | | | | |
| Preshared | Key | | ••••• | ••••• |
| Authentic | ation Alg | jorithm | SHA2-256 | ~ |
| Encryption | n Algorit | hm | AES-CBC-256 | ~ |
| Diffie-Hell | man Gro | oup | 19 🗸 | |
| Lifetime | | | 1440 | 1 |
| Dead Pee | r Detecti | on | | |
| Delay t | ime | | 10 | 5 |
| Retry C | Count | | 3 | |
| | | | DPD effective time | eout 34 S |
| Local IKE | Identifie | r | edgeconnect.d3n | nonstra |
| Remote I | KE Ident | ifier | dynamics3curity- | 4.va.us |
| Phase 1 M | lode | | Aggressive 💙 | |
| IKE Versio | n | | IKE v2 🗸 | |

IPSec Settings

Authentication Algorithm: N/A Encryption Algorithm: AES-GCM-256 IPSec Anti-replay Window: Disable Lifetime: 480 minutes Perfect Forward Security Group: Disable

| Authoritization Algorithm | NA |
|-------------------------------|---------------|
| Authentication Algorithm | 104 |
| Encryption Algorithm | AES-GCM-256 ¥ |
| IPsec Anti-replay Window | Disable 🗸 |
| Lifetime | 480 |
| Mins (0 = disabled) | |
| MegaBytes (0 = disabled) | 0 |
| Perfect Forward Secrecy Group | disable 🗸 |
| | Save |

Configure Secondary Tunnel

Follow the same process for the secondary tunnel as outlined for the Primary Tunnel. Use the Secondary Tunnel Setup Info in Forcepoint ONE.

Note: You must use different Peer/Serivce lablet for the Secondary Tunnel than the Primary Tunnel.

Configure Business Intent Overlay

Forcepoint One accepts HTTP/HTTPS traffic on ports 80 and 443. You can send the ICMP Echo Request probes to the Anycast Monitoring IP address.

Note: To ensure that all HTTP(S) traffic is processed by Forcepoint ONE SSE, it is recommended to block QUIC and HTTP(S) on any other port than 80 or 443. Drag the Primary and Secondary Tunnel as preferred policies.

a) Drag the Primary and Secondary Tunnel as preferred polices.

| Name Forcepoint | Match Overlay ACL V | Protocol tcp, Port 80 443, Protocol icmp, De | Region Global V |
|--|----------------------|--|---|
| SD-WAN Traffic to Int | ternal Subnets B | | |
| Preferred Policy Order FONE-US-EAST-1A FONE-US-EAST-18 | Available Policies × | Break Out Locally Using These Interfaces 🖍 | Available Interfaces Link Selection Available Interfaces Link Selection Image: Constraint of the selection Waterfall Balanced Image: Constraint of the selection Performance Thresholds |

b) Create an **Overlay ACL** rule to match Transmission Control Protocol (TCP) ports 80 and 443 and other rules to match ICMP protocol with Anycast Monitoring IP.

| Name Forcepoint | Mat | ch Overlay ACL V Protocol tcp, Port 80 443, Pro | ay ACL V Protocol tcp, Port 80(443, Protocol icmp, De / Ri | | | | |
|---|---------------------------------|---|--|----------------|---|--|--|
| SD-WAN Traffic | to Internal Subnets | Breakout Traffic to Internet | Cloud Services 🧭 | | | | |
| | Associate ACL | | | | × | | |
| Preferred Policy Orde | Add Rule 2 Rows | | | Search | | Link Selection Vaterfall Balanced | |
| Preferred Policy Orde FONE-US-EAST-1A FONE-US-EAST-1B | Add Rule 2 Rows Priority | Match Criteria | Permit | Search Comment | | Link Selection Naterfall Balanced | |
| Preferred Policy Orde FONE-US-EAST-1A FONE-US-EAST-1B FONE-US-EAST-1B FONE-US-EAST-1B | Add Rule 2 Rows Priority 1000 P | Match Criteria | Permit | Search Comment | × | Link Selection Naterfall Balanced rformance Threshol Loss < 0 % | |

c) Complete changes by **Saving** and **Deploying** them in the EdgeConnect appliance.

Configure IP SLA

Configure the IP SLA where the Secondary Tunnel is only enabled when the Primary Tunnel is down. Forcepoint ONE supports Anycast IP monitoring using ICMP echo probes.

Note: It is recommended to create a loopback pool to be used by the EdgeConnect appliances as the source IP for the IP SLA probes.

| IP SLA - edgeconnect | IF JLA RUID | | | | | | | | > |
|--|---|---------------------------|---|-------------|---------------|-------------|-----------------|------------------|---|
| IP SLA 🕜 | Monitor | ON OFF | | | 1 | | | | |
| 844 | Monitor | Ping v | | | | | | | |
| Edit Acti State Monito | Address | 116.50.59.230 | | | 20 | Comment | Up Stats | Down Stats | |
| * Yes Up Ping: IP = 116.50.59.230, Keep Alive Time = 5, Up | Source | Tunnel | ~ | | nnel - Force | | Last: 17h 8m 4s | Total :1, Last:1 | × |
| Yes Up Ping: Keep Alive Time = 1, IP = sp-ipsla.silverpeak | Tunnel | Forcepoint-ONE-US-EAST-1A | ~ | | el = Passthro | generated b | Last:2d 6m 31s | Total :0, Last:0 | |
| Yes Up Ping: Keep Alive Time = 1, IP = sp-ipsia silverpeak | Source Interface | lo20000 | ~ | | ei - Passthro | omerated b | Last:2d 41s | Total :0, Last:0 | |
| | Ping Interval | 5 | | Sec | | | | | |
| | Sampling Window Reachability | 300 | _ | Sec | | | | | |
| | Mark Up after X Pings | 2 | | | | | | | |
| | Mark Down after X Failed Pings | 3 | | | | | | | |
| | Loss | | | | | | | | |
| | Mark Up after loss below X % | | | | | | | | |
| | Mark Down after loss above X % | | | | | | | | |
| | Latency | | | | | | | | |
| | Mark Up after average latency below X | | | Milli Sec | | | | | |
| | Mark Down after average latency above X | | | Milli Sec | | | | | |
| | Metric Combination | OR | ~ | | | | | | |
| | Monitor sampling interval | 60 | | Sec | | | | | |
| | Actions | | | | - | _ | _ | | |
| | Down action | Enable Tunnel | ~ | | | | | | |
| | Tunnel | Forcepoint-ONE-US-EAST-18 | ~ | | | | | | |
| | Up action | Disable Tunnel | ~ | | | | | | |
| | Tunnel | Forcepoint-ONE-US-EAST-1B | ~ | | | | | | |
| | Comment | optional | | | | | | | |
| | | | | Update Gose | | | | | |

Verify Tunnel Status in Aruba SD-WAN

| Tun | Turnel Exception Equat States C 21 mins | | | | | | | | | | | | | |
|------|---|---------|---------------------------|-------|----------|-------------------|----------------------|-----------------|---------------|-------|------|-----------------|----------|--------|
| Tun | Tunnels 😧 Overley Underley Passthrough Status Al 🗸 | | | | | | | | | | | | | |
| 6 K | ows | | | | | | | | | | | Search | | |
| Edit | Appliance | Segment | Passthrough Tunnel 🔺 | Admir | n Status | Charts | Status | Local IP | Remote IP | Mode | NAT | Peer/Service | Max BW K | Advanc |
| 1 | edgeconnect | Default | Forcepoint-ONE-US-EAST-1A | up | = | 100 | up - active | 192.168.123.254 | 107.23.63.125 | IPSec | none | FONE-US-EAST-1A | 1000000(| (j) |
| 1 | edoeconnect | Default | Forcepoint-ONE-US-EAST-1B | up | = | N ^a rd | up - ip sla disabled | 192.168.123.254 | 52.201.134.75 | IPSec | none | FONE-US-EAST-1B | 1000000r | (i) |

Forcepoint

About Forcepoint

forcepoint.com/contact

Forcepoint simplifies security for global businesses and governments. Forcepoint's all-in-one, truly cloud-native platform makes it easy to adopt Zero Trust and prevent the theft or loss of sensitive data and intellectual property no matter where people are working. Based in Austin, Texas, Forcepoint creates safe, trusted environments for customers and their employees in more than 150 countries. Engage with Forcepoint on www.forcepoint.com, Twitter and LinkedIn.

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