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Check Point Integration Guide

1.0.0

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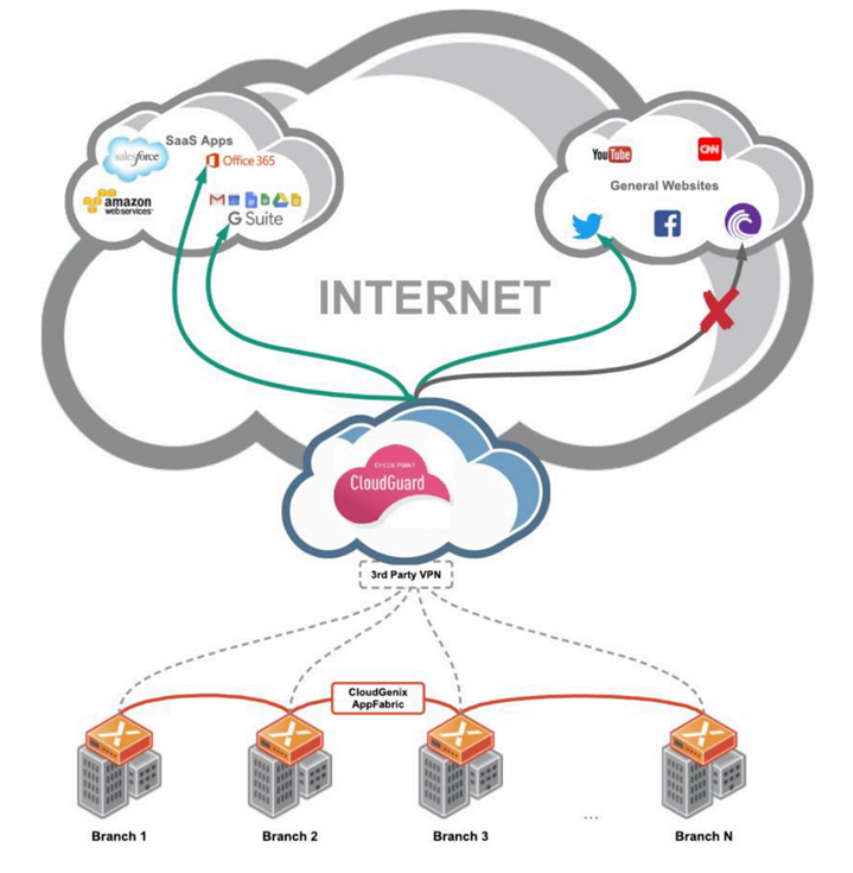
Table of Contents

Prisma SD-WAN Check Point Network Security-as-a-Service Integration

As enterprises rely on SaaS or Cloud-based delivery models for business-critical applications, there is a compelling need for per-application policy enforcement without increasing remote office infrastructure. Traditional hardware-router based approaches are limited by heavy-handed 'all or nothing' policies for direct-to-internet versus policy enforcement per-application. Additionally, because router-based approaches are packet-based versus application-session based, they fail to meet application session-symmetry requirements, causing network and security outages.



This guide explains how to set up IPsec tunnels and service chain traffic from a Prisma SD-WAN ION device to Check Point's Network Security-as-a-Service through the Prisma SD-WAN portal and Check Point's Network Security-as-a-Service web-based management.

It is intended for network and security administrators who are responsible for cybersecurity for branch office users. These instructions are applicable to Prisma SD-WAN ION devices running version 4.7.1 and above.

This guide describes how to create a site at Check Point's Infinity Portal, how to set up Prisma SD-WAN, and finally, how to monitor Cybersecurity events at Check Point's portal.

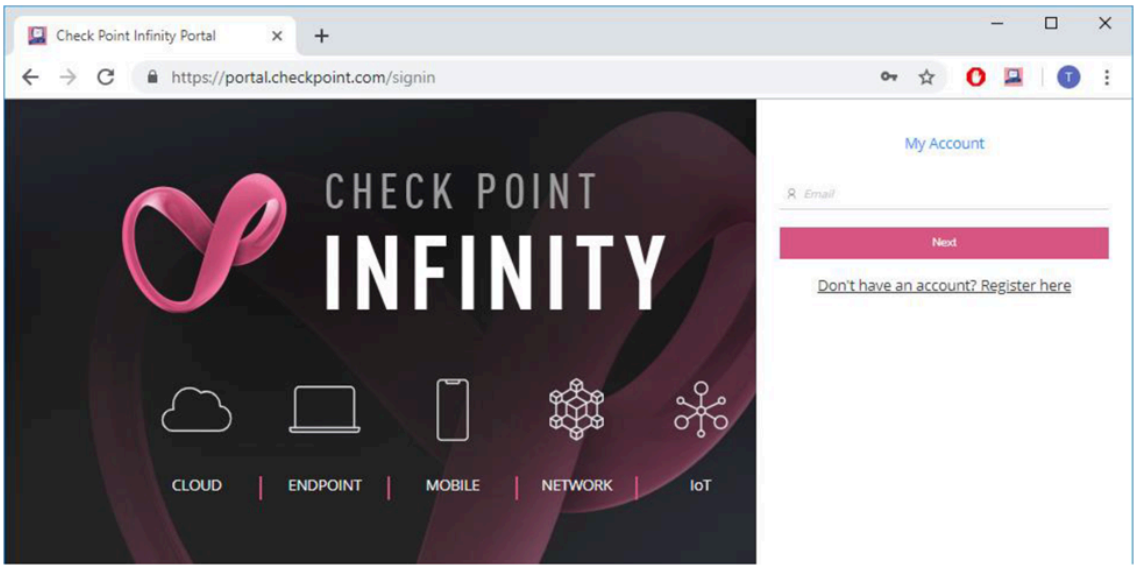
*The images in this document may have references to **CloudGenix** and the term **3rd Party/3rd Party VPN**. The CloudGenix instances now display as **Prisma SD-WAN**, and the new term for 3rd Party/3rd Party VPN is **Standard VPN** on the Prisma SD-WAN web interface.*

In this guide, branch offices will be protected by creating two IPsec tunnels to Check Point's Network Security as a Service. This involves signing in to the **Check Point Infinity Portal**, creating a site, configuring a router or SD-WAN device, and supporting more than one external IP address.

Read on to know more about how to sign into Check Point's Infinity portal, create a site, configure your router, and support multiple external IP addresses.

Sign in to the Check Point Infinity Portal

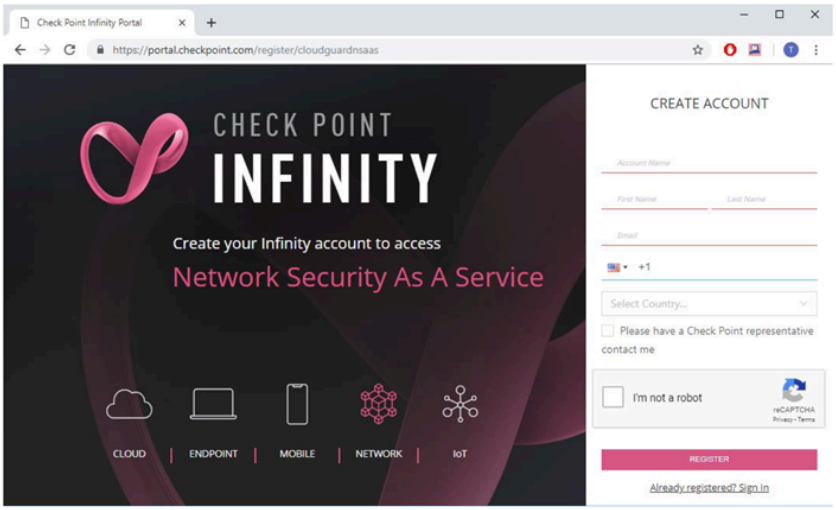
STEP 1 | Sign in to the **Check Point Infinity Portal** at https://portal.checkpoint.com.



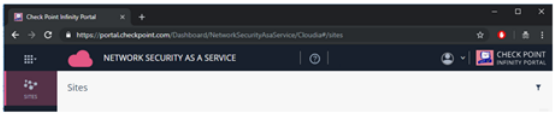
If you don't have an account yet, you can register for one at https://portal.checkpoint.com/register/cloudguardnsaas.

Upon registration, make sure that the "Network" sign is colored in Pink and that the text says ***Create your Infinity account to access Network Security as a Service****, otherwise you might end up subscribing to a different security product.*

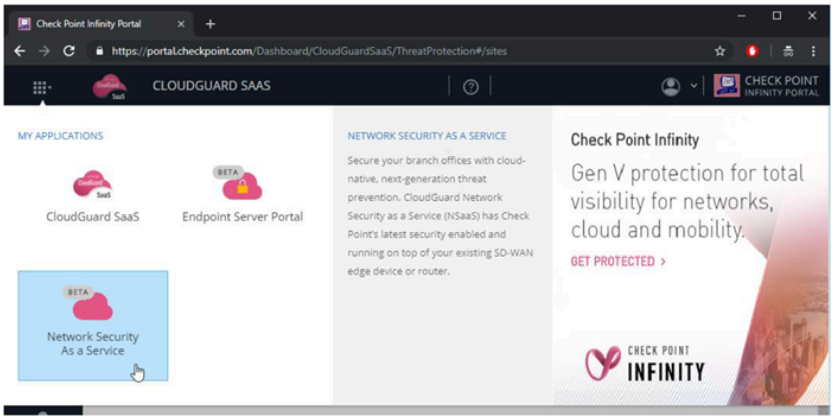
Network Security as a Service is dependent on a purchased software license. For more about licensing, contact your Check Point Sales representative, or check for updates at Check Point's User Community.



STEP 2 | Once you are logged into the Check Point Infinity Portal, make sure that you are currently looking at the Network Security as a Service application.



If the title says a name of a different application, click the application switcher icon at the top-left corner ( ) and select Network Security as a Service.

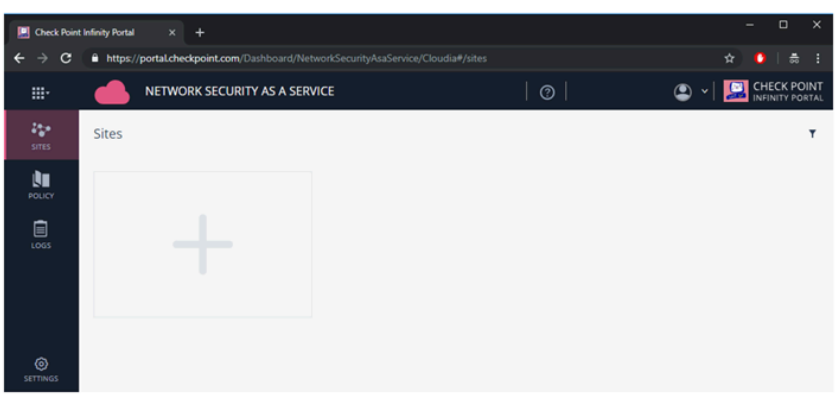


Create a Site

To create a site:

STEP 1 | Navigate to **Sites**.

The **Sites** screen will display.



STEP 2 | Select the **+** button to create a new site.

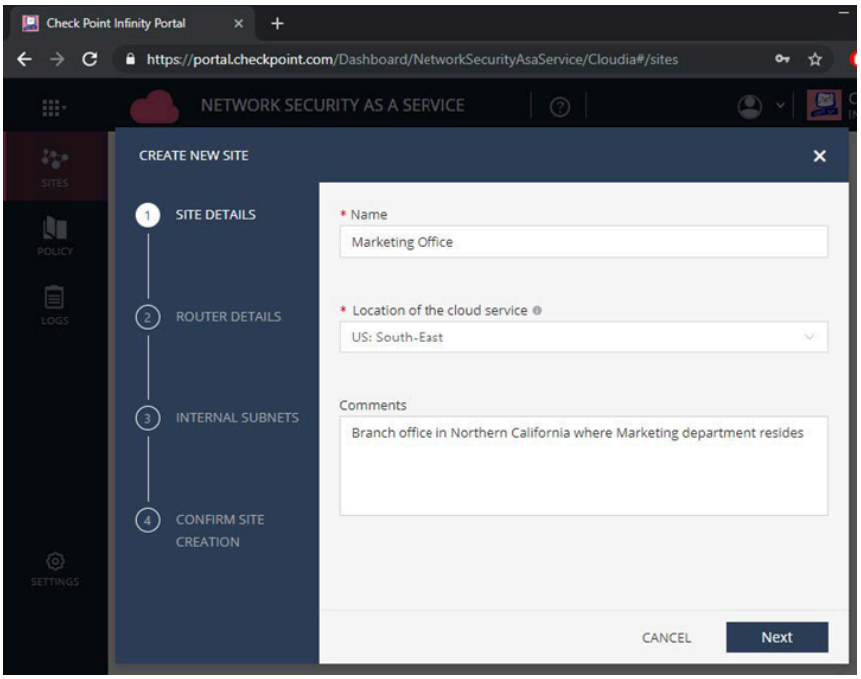
A site represents your Prisma SD-WAN edge device. The **CREATE NEW SITE** screen will display.

STEP 3 | In the **Site Name** field, enter a name for the site.

STEP 4 | In the **Location of the cloud service** field, select a location that suits your site.

Check Point's Network Security as a Service inspects traffic from your branch office to the Internet with a cloud service that resides in one of these locations. So typically you would want to select the location of the cloud service with an option that is closest to the location of your site, in order to achieve the best performance. For some countries, most notably South America or the Middle East, the best choice for Location of the cloud service might be presence of a strong cross-country Internet link.

STEP 5 | In the **Comments** field, enter an optional description of the site.

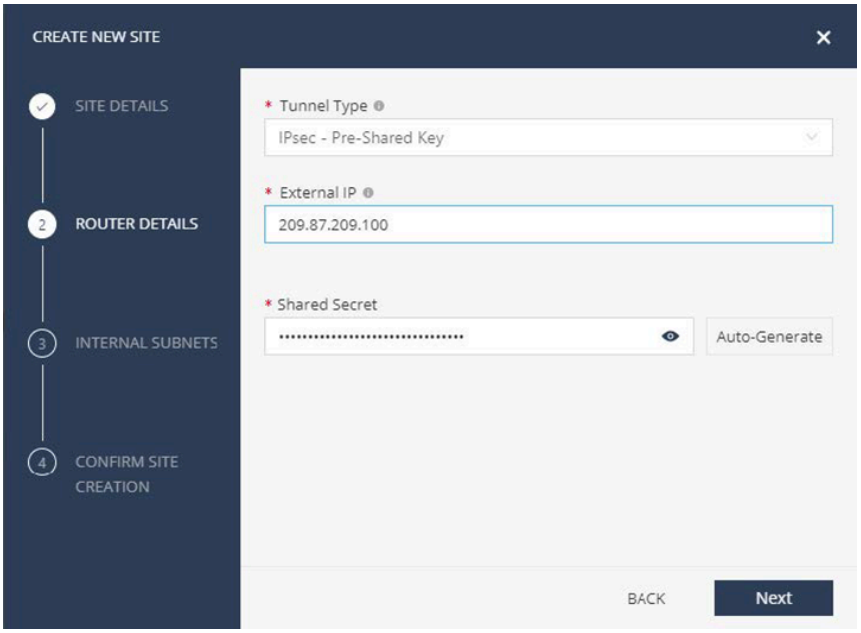


STEP 6 | Click **Next**.

STEP 7 | Choose **IPsec – Pre-Shared Key** as **Tunnel Type**.

STEP 8 | In the **External IP** field, define the IP address of your branch office site.

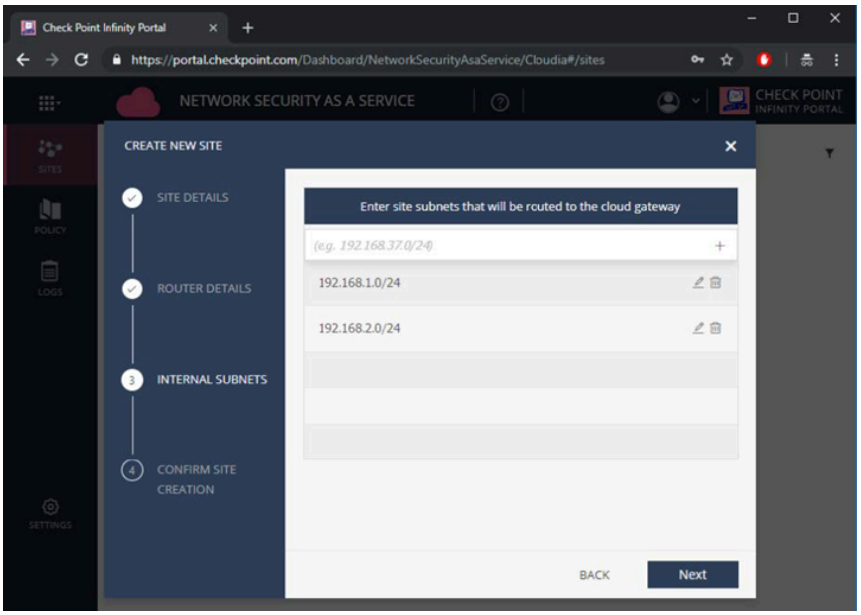
Note that this IP must be static and accessible from the Internet. You can track Check Point's updates regarding support of other topologies at this User Community thread. Supporting more than 1 external IP address per site will be explained later on.



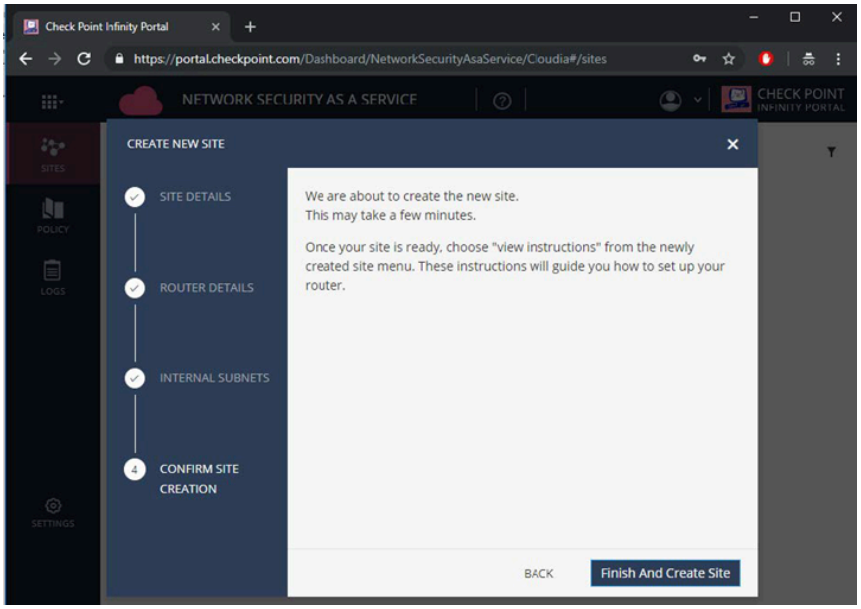
STEP 9 | Click **Next**.

STEP 10 | In the **Internal Subnets** page, enter the IP address of your internal networks in the branch office site.

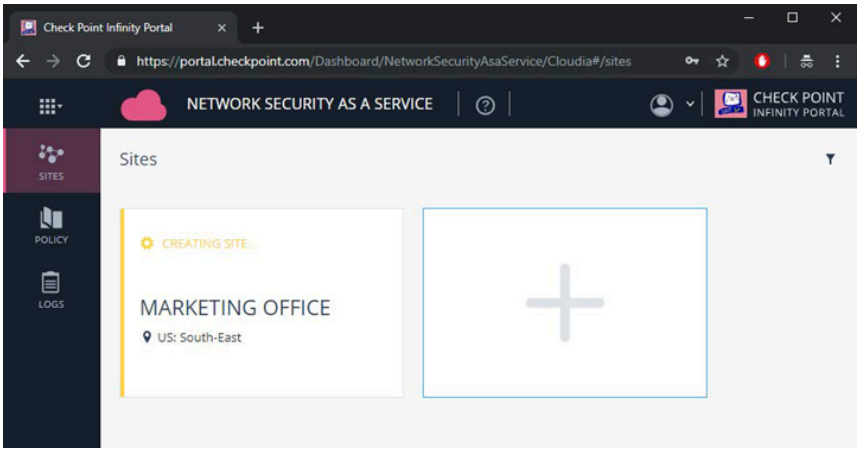
Check Point's Network Security as a Service applies its cybersecurity features on any traffic coming from these network addresses.



STEP 11 | Click **Next**.



STEP 12 | Select **Finish and Create Site**. Check Point might take a few minutes to create the site.

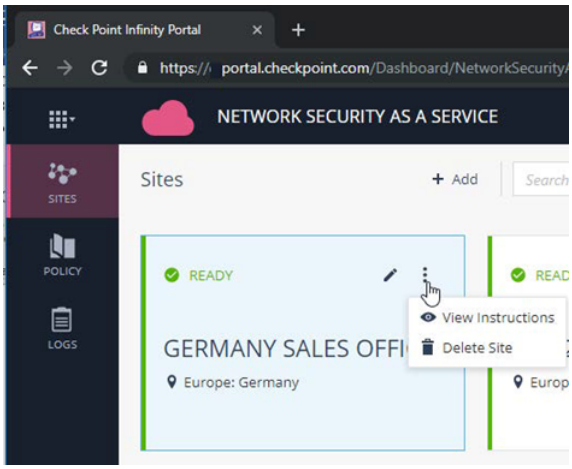


Configure your Router or SD-WAN Device

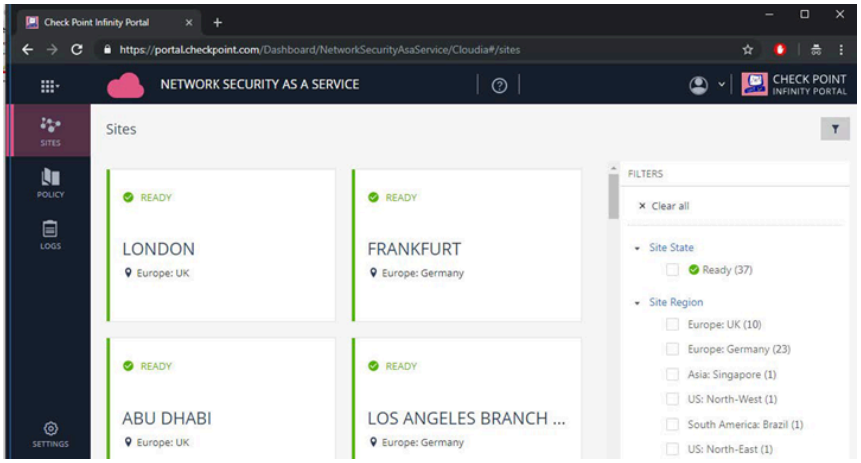
Configure your router or SD-WAN device to route traffic through Check Point Network Security-as-a-Service as follows:

STEP 1 | Select the card that represents your site.

STEP 2 | Select **Menu** > **View Instructions**.



STEP 3 | Get the IPsec configuration properties, pre-shared key, tunnel addresses, and the traffic routes by viewing the instructions.



Support for Multiple External IP Addresses

A common use case is a branch office with more than one Internet link. In case your branch office site has more than one Internet link, repeat the steps above in order to create another site.

- At the Router Details page, the External IP should represent the other IP address of your branch office site.

  This IP must be static and accessible from the Internet. You can track Check Point's updates regarding support of other topologies at this User Community thread.

- At the **Site Details** page, the **Location of the cloud service** should be a different location than the one defined at the original site object. This is because of a technical limitation at the Check Point side. In this case, typically you would want to select the location of the cloud service with an option that is the second-closest to the location of your site, in order to achieve the best performance.
- After your other **Site** is ready, get the **IPsec configuration properties**, **pre-shared key**, **tunnel addresses**, and the **traffic routes** by viewing the instructions.

Technically, that would mean that one of the Internet links will have 2 redundant IPsec tunnels served in a location closest to the branch, while the other Internet link will have 2 tunnels at the second-closest location to the branch.

Check Point can modify the internal configuration so that each Internet link would get one tunnel at the closest location and one tunnel at the second-closest location, therefore having good performance on both outbound interfaces.

In order to have that enabled, please open a support ticket at Check Point.

- **Subject** of the ticket should be **Please change the internal configuration of my IPsec tunnels**.
- **Product** should be set to **Network Security as a Service**.
- **Description** should include:
  - Your account name at Check Point Infinity Portal.
  - The names of the 2 or more sites that represent the same branch office.

This practice can be repeated for more than two external IP addresses per branch office site.

For the remainder of this guide, we will assume one external IP address, as this process can easily be repeated for each additional tunnel.

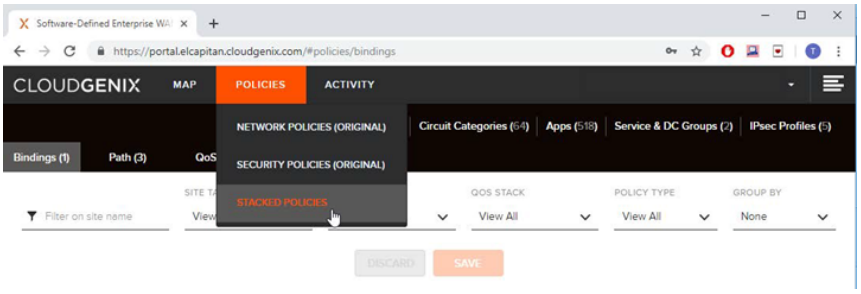
Set up Prisma SD-WAN Overview

To set up Prisma SD-WAN, log in to the Prisma SD-WAN portal, followed by creating an IPsec Profile, creating a service group, assigning IPsec tunnels to your site, and finally, testing the overall configuration.

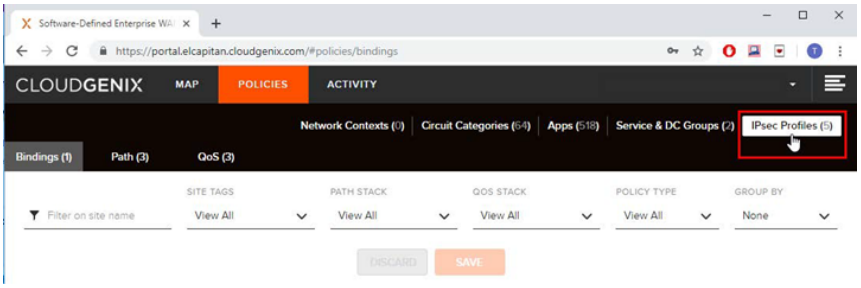
Create an IPsec Profile

To create an IPsec Profile:

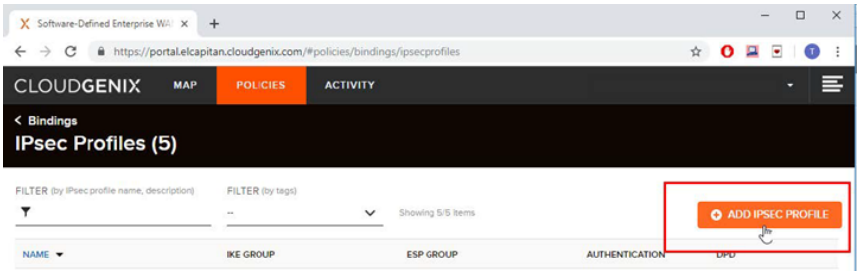
STEP 1 | Navigate to **Policies** > **Stacked Policies**.



STEP 2 | Click **IPsec Profiles**.

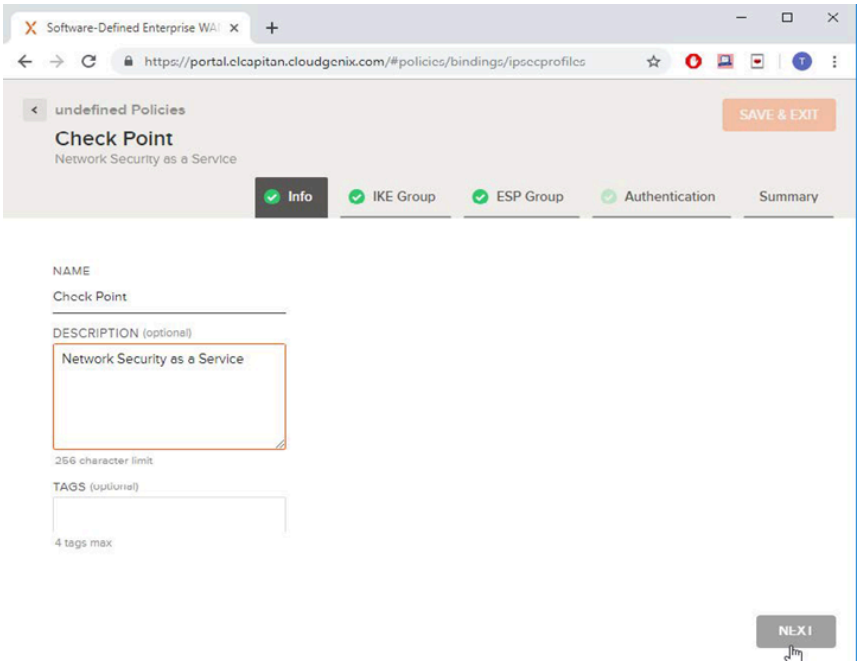


STEP 3 | Click **Add IPsec Profile**.

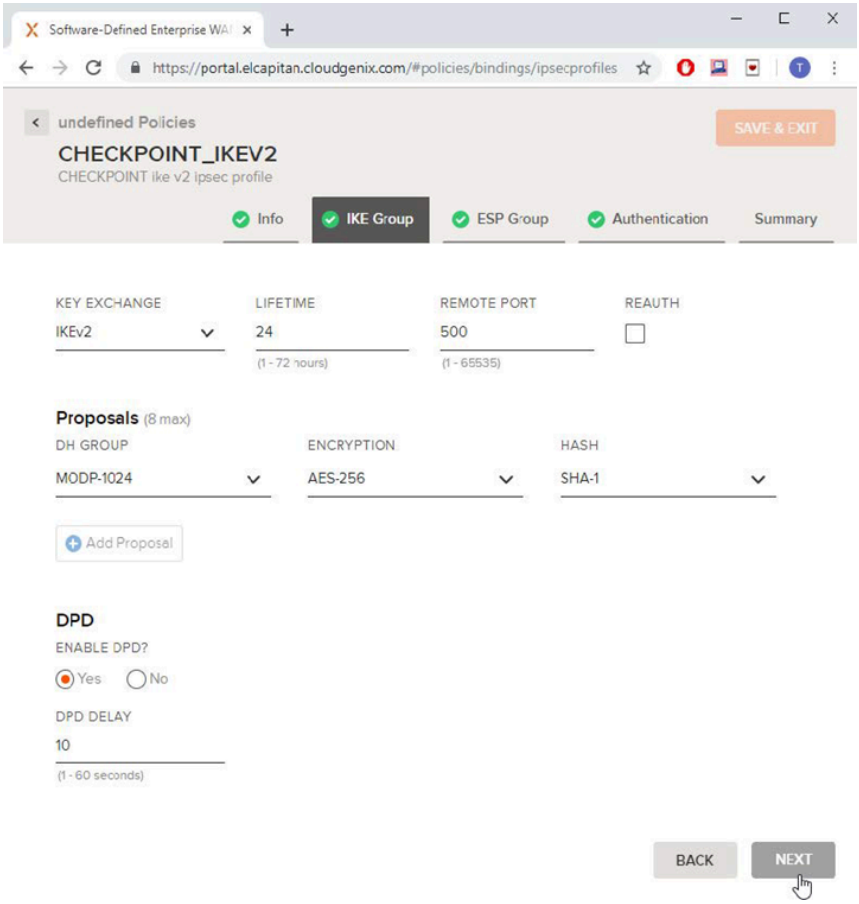


A wizard for adding an IPsec profile will display.

STEP 4 | Define a **name** and **description**, and click **Next**.



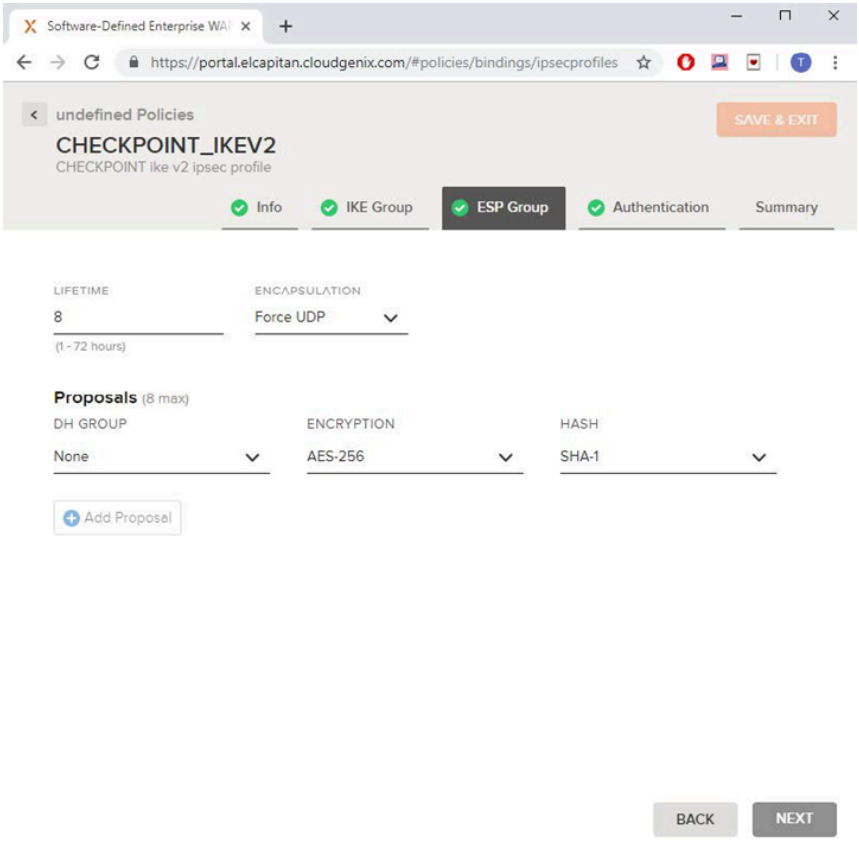
STEP 5 | Edit the **IKE settings** of the IPsec profile.



- **Key Exchange** should be set to **IKEv2**. IKEv1 is also supported.
- **DH Group** should be set to **MODP-1024**.
- **Encryption** should be set to **AES-256**.
- **Hash** should be set to **SHA-1**.
- **DPD** should be **enabled**.

STEP 6 | Click **Next**.

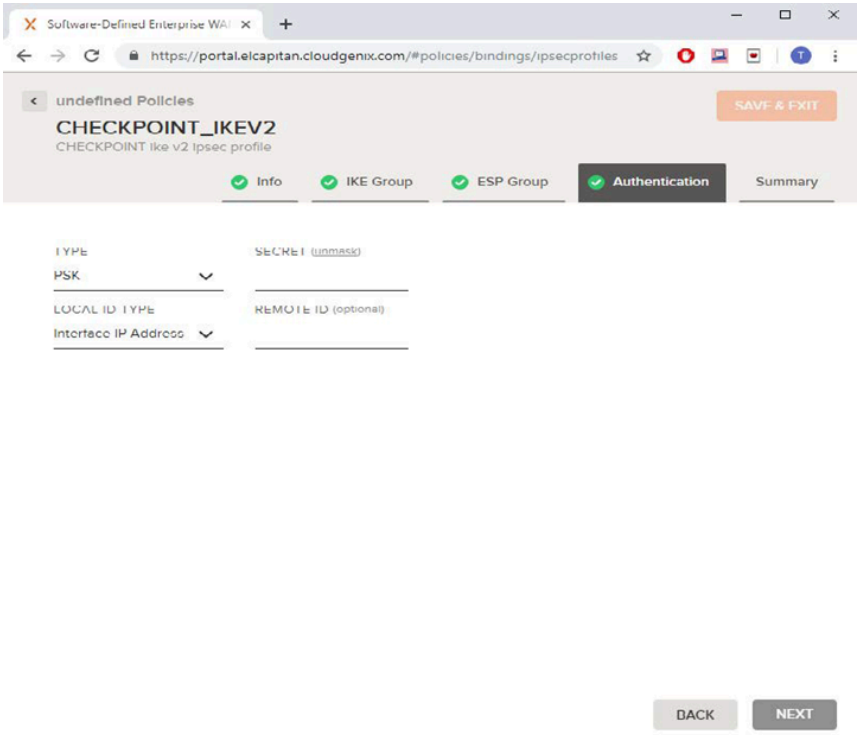
STEP 7 | Edit the **ESP Group** settings.



- **Encapsulation** should be set to **Force UDP**
- At the **Proposals** section, there should be 1 proposal with the following settings:
  - **DH Group** should be set to **None**
  - **Encryption** should be set to **AES-256**
  - **Hash** should be set to **SHA-1**

STEP 8 | Click **Next**.

STEP 9 | Edit the **Authentication** settings.



- **Type** should be set to **PSK**.
- **Secret** should be set to the pre-shared key of the Check Point Site that you copied at the previous steps.
- **Local ID type** should be set to Interface IP Address

STEP 10 | Click **Next**, review the settings of the profile, then click **Save & Exit**.

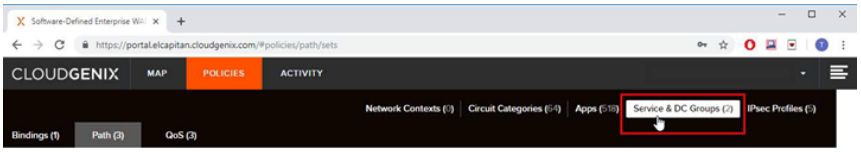
Create a Service Group

A Service Group is a set of tags and labels representing the integration with Check Point. This lets the user get an overview of the association between Prisma SD-WAN devices and third-party integrations.

To create a Service Group:

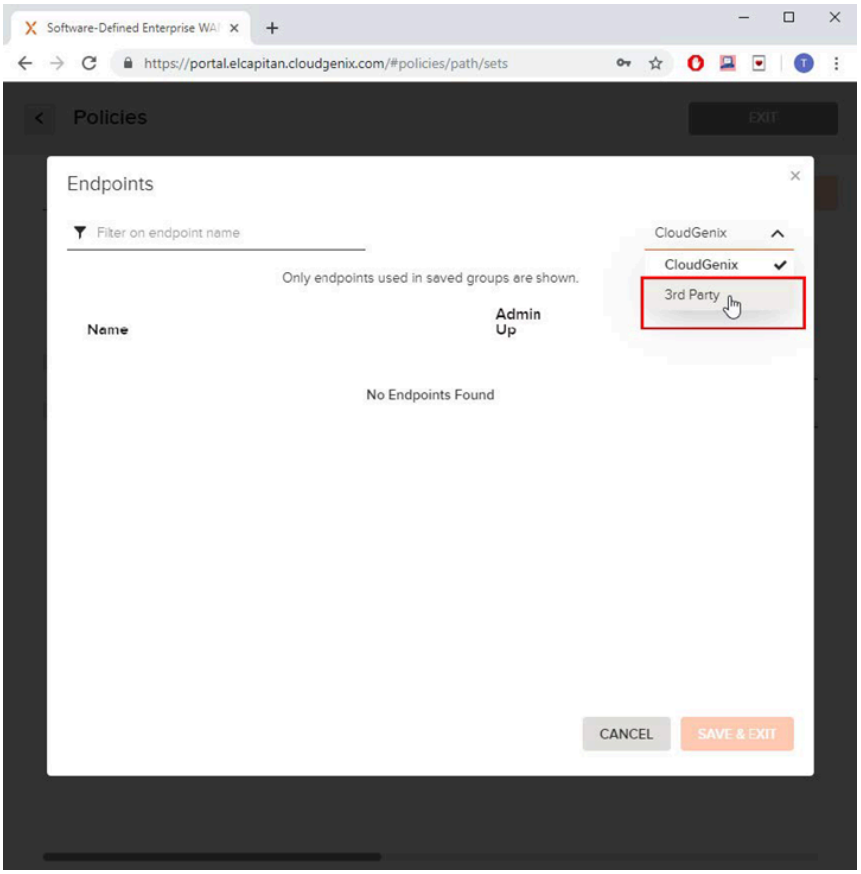
STEP 1 | Navigate to **Policies** > **Stacked Policies**.

STEP 2 | Click **Service & DC Groups**.

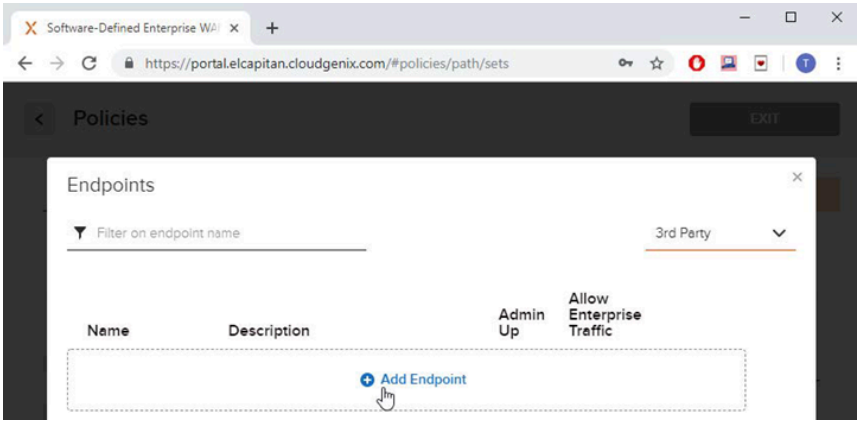


STEP 3 | Click **Endpoints**.

STEP 4 | Change the view from **Prisma SD-WAN** to **Standard VPN**.



STEP 5 | Click **Add Endpoint** in order to create a tag for the first tunnel.



STEP 6 | **Name** should be an alias for this tunnel.

In this case, we will name it to **Check Point Tunnel 1**.

STEP 7 | **Admin Up** should be **checked**.

STEP 8 | Click **Add Endpoint** in order to create a tag for the second tunnel.

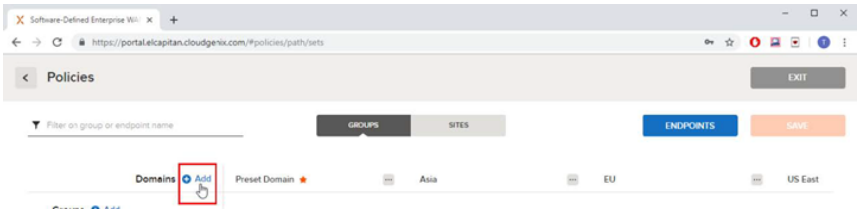
STEP 9 | **Name** should be an alias for this tunnel.

In this case, we will name it to **Check Point Tunnel 2**.

STEP 10 | **Admin Up** should be **checked**.

STEP 11 | Click **Save & Exit**.

STEP 12 | At the **Groups** tab, next to the **Domains** column, click **Add** to add a new **Domain**.

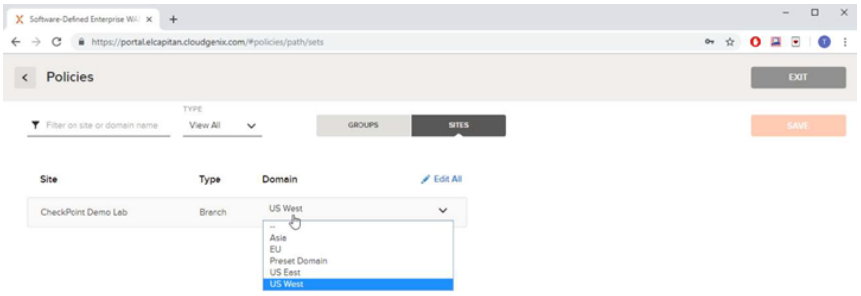


STEP 13 | **Name** should be an alias for the **Site**. In this case, we will name it to **Check Point**.

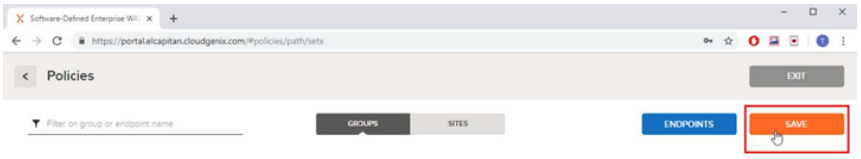
STEP 14 | Select the **Domain** column that you find that fits this site the most. In these instructions will use **Preset Domain**. Then, select the two **Endpoints** that we defined in the previous step.

STEP 15 | Click **Sites**.

STEP 16 | Identify your Prisma SD-WAN device and select the Domain where you associated the Check Point endpoint labels at the previous step. In our case, we will select **Preset Domain**.



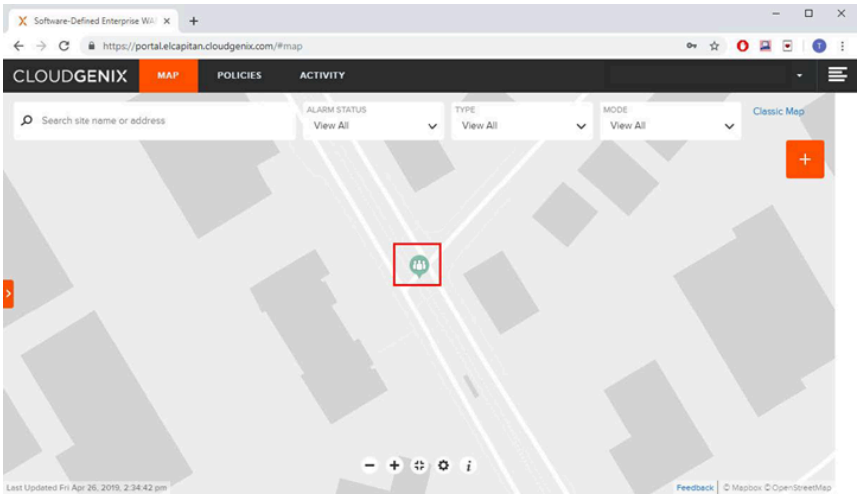
STEP 17 | Click **Save**.



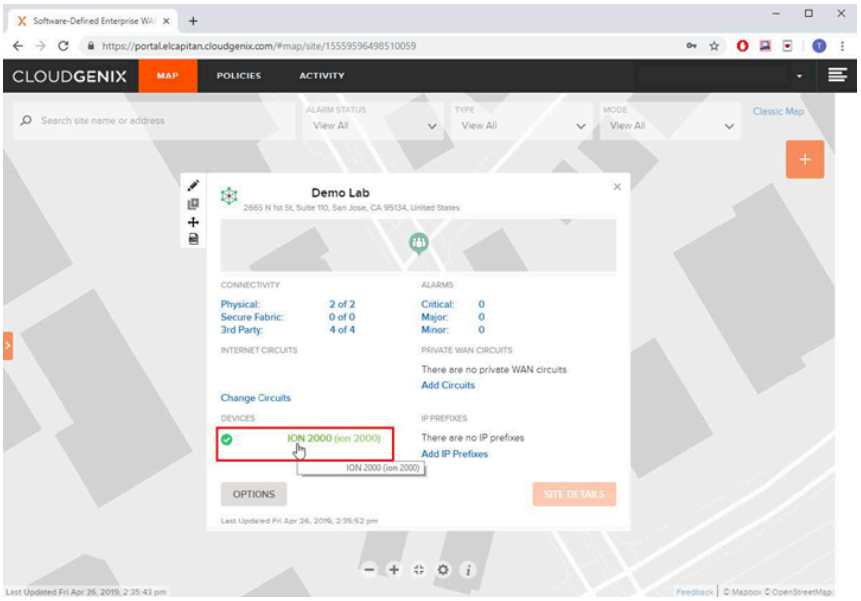
Assign IPsec Tunnels to your Site

To assign IPsec tunnels to your site:

STEP 1 | Click the **MAP** tab.



STEP 2 | Locate your device on the map, and then click it.

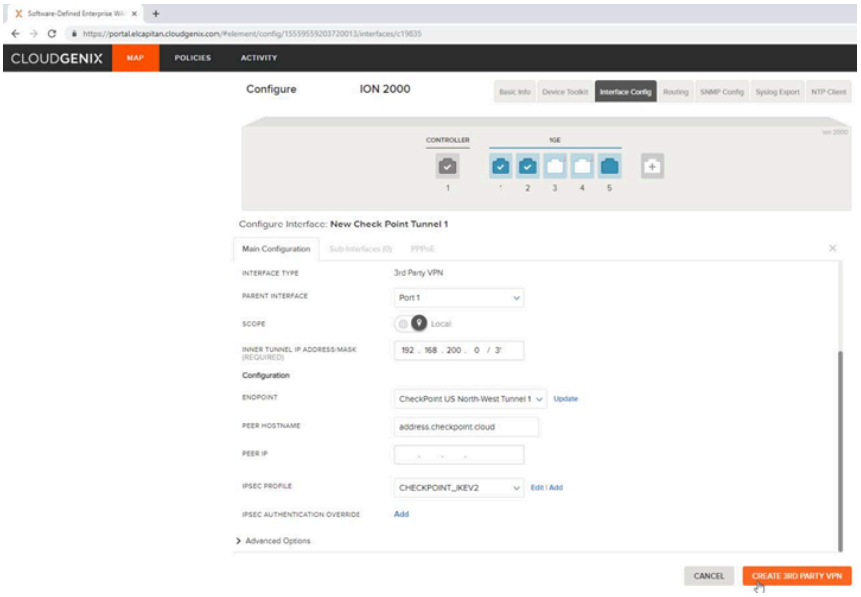


STEP 3 | Click the device to edit its settings.

STEP 4 | Navigate to **Interface Config**.

STEP 5 | Add the first IPsec tunnel.

STEP 6 | Click the **+** icon near the ports, select **Standard VPN**, and click **Add**. The **Tunnel Configuration** page will open.



STEP 7 | **Name** should be an alias for this tunnel. In this case, we will name it to **Check Point Tunnel 1**.

STEP 8 | **Admin Up** should be a.

STEP 9 | **Parent Interface** should be set to the **outbound interface**.

STEP 10 | **Inner Tunnel IP / Address Mask** should be set to an **internal IP** behind your device that you should allocate for the tunnel.

STEP 11 | **Endpoint** should be set to the Endpoint that represented a tunnel defined in the previous step. In our case, this should be set to .

STEP 12 | **Peer Hostname** should be set to the destination of the **first Check Point tunnel** that you copied from the previous steps.

STEP 13 | **Peer IP** should remain empty.

STEP 14 | **IPSec Profile** should be set to the IPsec Profile that we defined at the first step.

STEP 15 | Click **Create Standard VPN**. An indication at the top-right corner should appear in case the tunnel was created successfully or not.

STEP 16 | Click **Cancel** to go back to the interface configuration.

STEP 17 | Repeat this process for the **second** IPsec tunnel.

After creating the second IPsec tunnel, once again, an indication at the top-right corner should appear in case the tunnel was created successfully or not.

STEP 18 | Click **Cancel** to go back to the interface configuration.

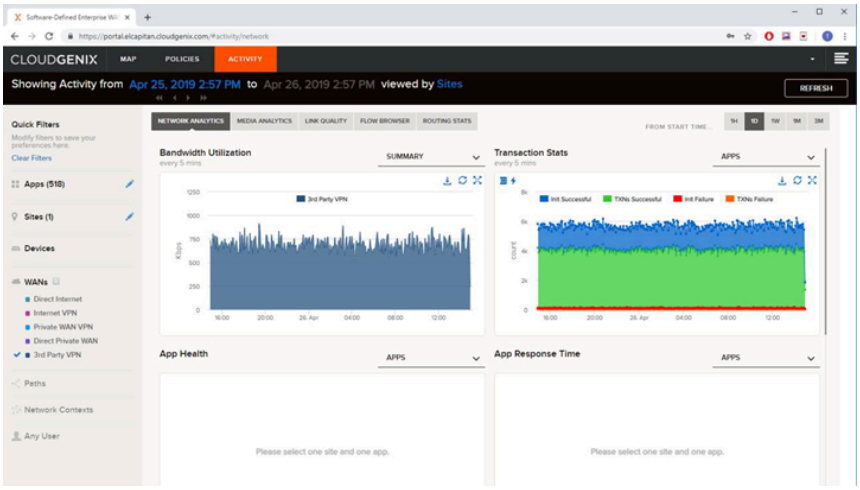
Test the Configuration

To test the overall configuration:

STEP 1 | Send traffic from behind your **Site** to the **Internet**.

STEP 2 | Navigate to **Activity**.

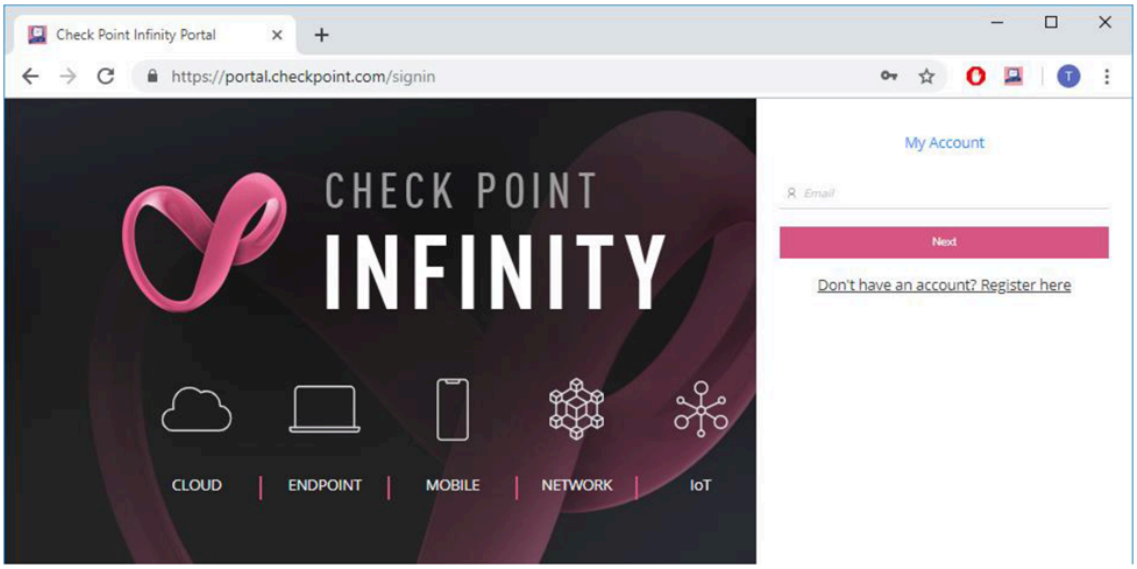
STEP 3 | Check that the traffic is displayed.



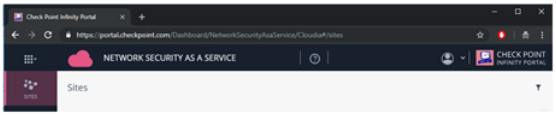
Monitor Cybersecurity Events at the Check Point Infinity Portal

In the previous step we confirmed that end-to-end connectivity is working as expected. In this step, we will observe which attacks were prevented by Check Point's various cybersecurity engines.

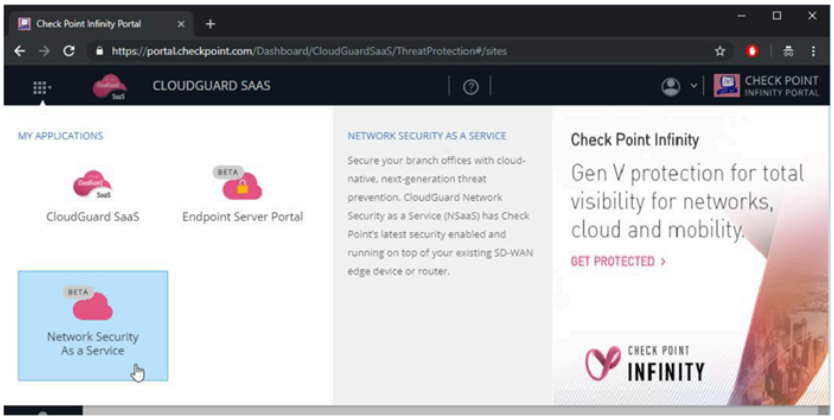
STEP 1 | Sign in to the Check Point Infinity Portal at https://portal.checkpoint.com.



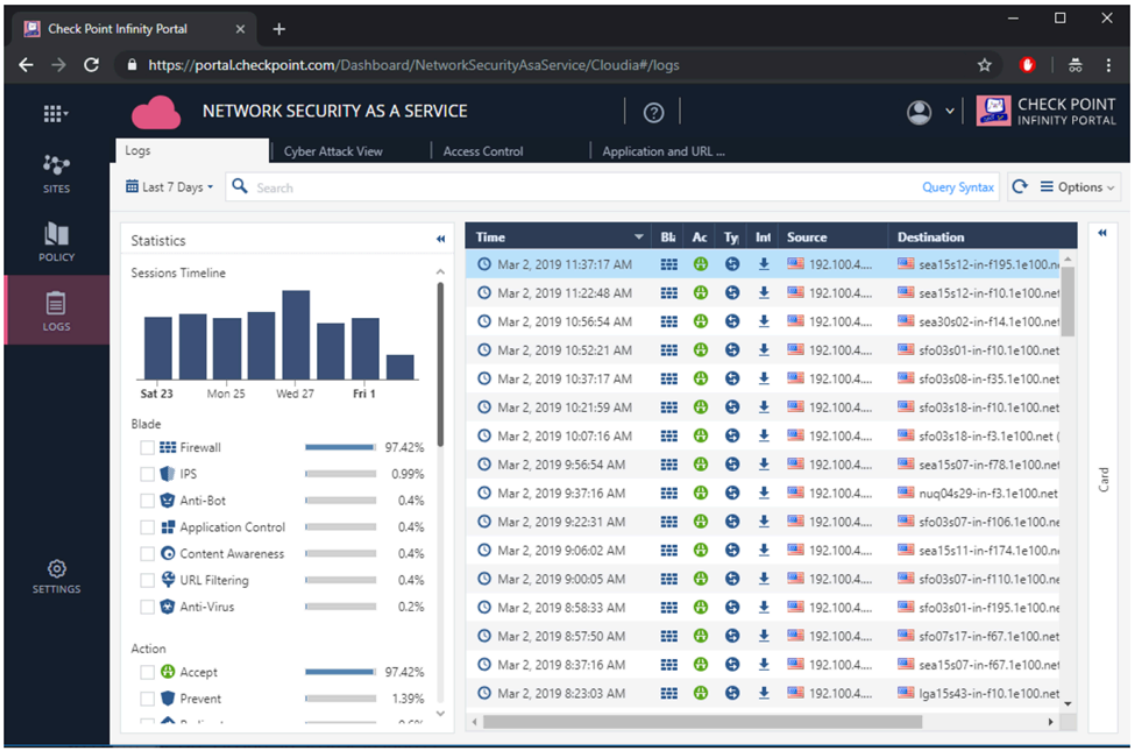
STEP 2 | Once you are logged into the Check Point Infinity Portal, make sure that you are currently looking at the **Network Security as a Service** application.



STEP 3 | If the title says a name of a different application, click the application switcher icon at the top-left corner ( ) and select **Network Security as a Service**.



STEP 4 | Navigate to **Logs**. The Logs screen will display with 4 different tabs.



STEP 5 | Click the **Cyber Attack View** tab to observe attacks that were prevented by Check Point.

STEP 6 | Click the **Access Control** tab to observe malicious applications that were prevented by CheckPoint, as well as total consumed traffic and visibility at the applications that were access the most by your end-users.

STEP 7 | Click the **Application and URL Filtering** tab to generate a real-time report of your branch office cybersecurity posture. You can export this report to PDF by clicking the **Menu** at the top-right.

STEP 8 | Navigate to **Policy** to view and change your security policy for access control, threat prevention, and HTTPS inspection.

*Changes to security policies are not applied until clicking **Install Policy**.*