

## Configure ERSPAN with the Nexus 1000V

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The Encapsulated Remote Switched Port Analyzer (ERSPAN) enables you to monitor traffic on multiple network interfaces or VLANs and then send the monitored traffic to one or more destinations. This guide explains how to configure ERSPAN on an ExtraHop Discover appliance with a Cisco Nexus 1000V switch that is running on a Windows machine.

This guide assumes that you are familiar with basic Cisco administration.

For more information, see the following documentation:

- Cisco: Configuring an ERSPAN Port Profile
- ExtraHop: ExtraHop Admin UI Guide ☑

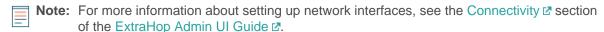
## Configure the ExtraHop interface settings



**Note:** If you select **Interface 1** and the ExtraHop Discover appliance is a node in a Command cluster, you must remove the node from the cluster before you can configure Interface 1 settings.

If you select **Interface 1** for management and **Interface 2** for ERSPAN, you cannot configure both interfaces on the same subnet.

- 1. From the ExtraHop Admin UI, in the Network Settings, click **Connectivity**.
- 2. In the Interfaces section, click Interface 1 or Interface 2.
- 3. From the Interface Mode drop-down list, select Management Port + RPCAP/ERSPAN Target.
- 4. To enable DHCP, select the checkbox.
- In the IP Address field, type the IP address that you want to assign to the ExtraHop port for ERSPAN traffic.
- 6. In the Netmask field, type the netmask of the ExtraHop appliance.
- 7. In the Gateway field, type the gateway IP address of the ExtraHop appliance.
- 8. Click Save.
- 9. Optional: Disable the remaining interfaces, based on your configuration needs.



## Configure the Nexus 1000V settings

- 1. Log into your virtual supervisor module (VSM).
- 2. Identify the virtual Ethernet hosts to monitor by running the following command:

```
Switch# Show int virt
```

3. Enter configuration mode by running the following command:

```
Switch# config terminal
```

Create a new monitor session (also know as a port mirroring session) by running the following command:

switch(config)# monitor session 1 type erspan-source

Configure the ExtraHop ERSPAN target IP address by running the following command:

```
switch(config-erspan-src)# destination ip <ip-address>
```

where <ip-address> is the destination IP address for your ERSPAN target.

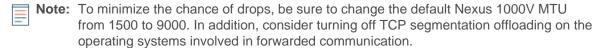
Set an ERSPAN ID by running the following command:

```
switch(config-erspan-src)# erspan-id <integer>
```

where <integer> is the ID number, such as 1.

7. Set the MTU to 9000 by running the following command:

```
switch(config-erspan-src)# mtu 9000
```



Add data sources by running the following command:

```
switch(config-erspan-src)# source <sources>
```

where <sources> are the sources for your data.

1. In the following example, data is taken from a guest:

```
switch(config-erspan-src)# source interface vethernet 3-5 both
```

In this example, both means that the VM is sending and receiving data.

In the following example, data is taken from all traffic received by the VLAN:

```
switch(config-erspan-src)# source vlan 1010 rx
```

Enable the monitoring session by running the following command:

```
switch(config-erspan-src)# no shut
```

10. Exit from the ERSPAN source and return to configuration mode by running the following command:

```
switch(config-erspan-src)# exit
```

11. Exit config mode and return to the enable prompt by running the following command:

```
switch(config)# exit
```

12. Save your changes by running the following command:

```
switch# copy running-config startup-config
```

13. Check the settings by running the following command:

```
switch# show monitor session 1
```



In the following example, a functioning monitoring session is

```
session 1
             both
              source port-profile :
                 rx
                  tx
             both :
filter VLANs : filter not specified
destination IP : 10.10.247.93
ERSPAN ID : 1
ERSPAN TTL : 64
ERSPAN IP Prec. : 0
                 both
             ERSPAN DSCP : 0
ERSPAN MTU : 9000
              ERSPAN Header Type: 2
displayed:
```

## **Next steps**

Log into the ExtraHop Web UI and view monitored traffic.