

EdgeSwitch - Inter-VLAN Routing

 help.ubnt.com/hc/en-us/articles/115002359547-EdgeSwitch-Inter-VLAN-Routing

Overview

Readers will learn how to configure Inter-VLAN routing on an EdgeSwitch through the use of Switch Virtual Interfaces (SVI).



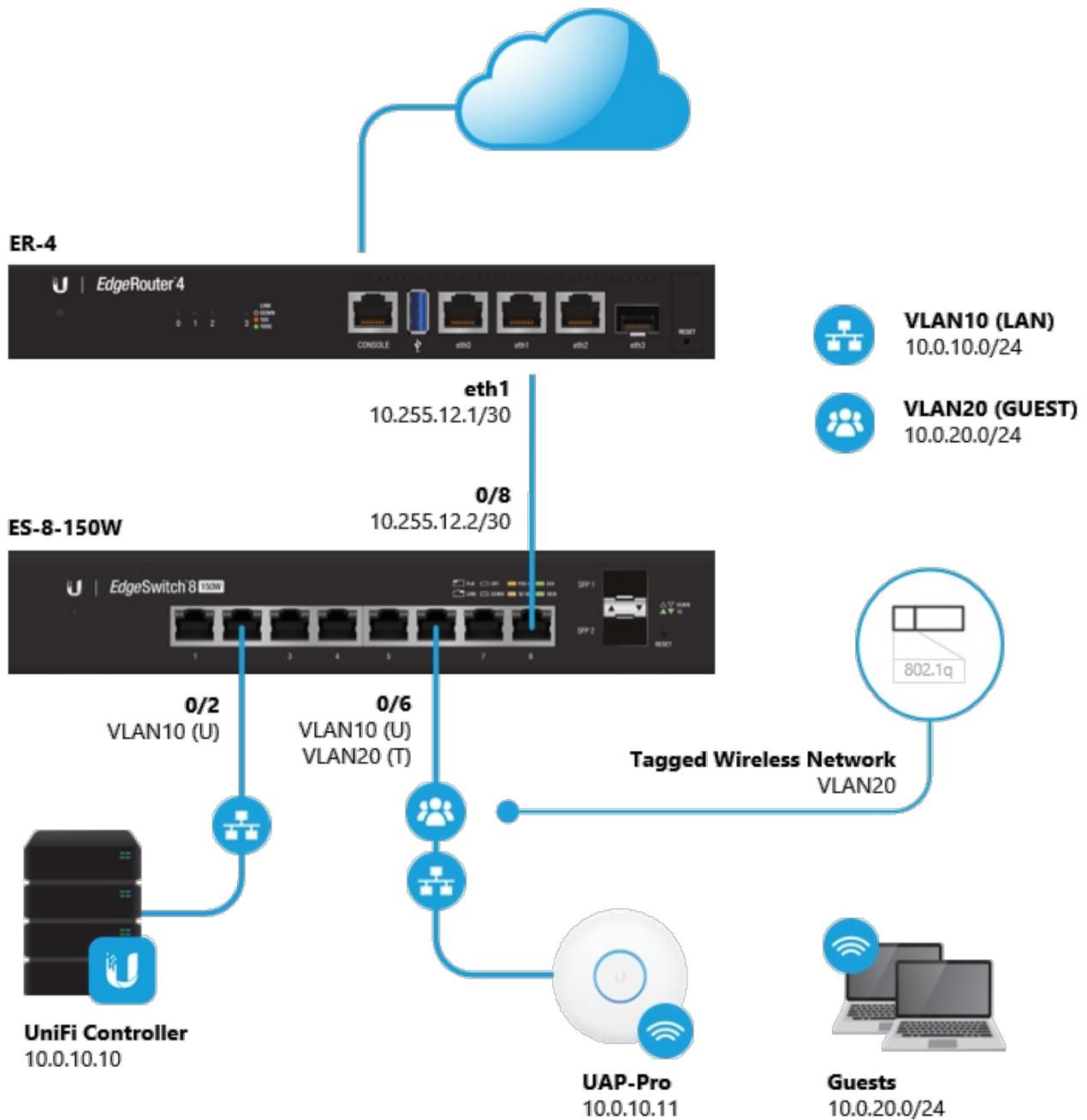
Applicable to the latest EdgeSwitch firmware on all EdgeSwitch models. Knowledge of the Command Line Interface (CLI) and basic networking knowledge is required. Please see the [Related Articles](#) below for more information.

Devices used in this article:

Configuring Inter-VLAN Routing

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Inter-VLAN routing will allow the VLAN10 and VLAN20 networks to communicate with each other through the switch. It is also possible to set up Inter-VLAN routing on an EdgeRouter, see the [Router on a Stick](#) article for more information.



The UAP-AC-Pro will tag the wireless network with VLAN20. The management traffic from the UAP is sent untagged and will be placed in VLAN10.

CLI: Access the EdgeSwitch Command Line Interface.

1. Enter privileged mode.

```
enable
```

2. Create the VLANs and VLAN-Interfaces (SVIs).

```
vlan database
vlan 10,20
vlan routing 10
vlan routing 20
exit
```

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3. Enter configuration mode.

```
configure
```

4. Assign the ports to the VLANs created above.

```
interface 0/2
description controller
vlan pvid 10
vlan participation exclude 1,20
vlan participation include 10
exit
```

```
interface 0/6
description uap
vlan tagging 20
vlan pvid 10
vlan participation exclude 1
vlan participation include 10,20
exit
```

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5. Enable routing functionality on the uplink port (0/8) and assign it an IP address.

```
interface 0/8
description edgerouter
routing
ip address 10.255.12.2 255.255.255.252
exit
```

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6. Associate the VLAN10 and VLAN20 SVIs with IP addresses and enable routing.

```
interface vlan 10
ip address 10.0.10.2 255.255.255.0
routing
exit
```

```
interface vlan 20
ip address 10.0.20.2 255.255.255.0
routing
exit
```

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7. Globally enable the routing functionality and create a default route to the EdgeRouter.

```
ip routing
ip route 0.0.0.0 0.0.0.0 10.255.12.1
```

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NOTE: The EdgeRouter will also need to be configured with static routes for the VLAN networks (10.0.10.0/24 and 10.0.20.0/24).

8. Exit back to privileged mode and write the changes to the startup configuration.

```
exit
write memory
```

Related Articles

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[EdgeRouter - Router on a Stick](#)

[EdgeSwitch - Command Line Interface \(CLI\) and Admin Guides](#)

[Intro to Networking - How to Establish a Connection Using SSH](#)
