

Port Setup

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LACP Port-Channel Trunk

1. Enter the configuration mode.

```
config t
```

2. Enter the interface/s that you want to add to the port channel/LACP.

```
int e1/5
```

For multiples use below.

```
int e1/5-6
```

3. Give a description of the ports.

```
desc MUT7-RACK-SWI-POE1
```

4. Configure the port/s as a switchport.

```
switchport
```

5. Configure the port/s as a trunk.

```
switchport mode trunk
```

6. Configure the port as a port-channel. `Active` sets the interface to LACP Active, `Passive` sets it to LACP Passive, and not setting a mode defaults to `On`.

```
channel-group 1 mode active
```

7. Enter the configuration for the port channel.

```
int port-channel 1
```

8. Give a description of the port-channel.

```
desc MUT7-RACK-SWI-POE1
```

9. Configure the port-channel as a trunk port.

```
switchport mode trunk
```

10. Issue the command `no shutdown` to enable the port.

```
no shutdown
```

11. Add VLANs if needed to the port-channel interface. Edit accordingly to allow only necessary VLANs.

```
switchport trunk allowed vlan add 1,2,5,20,30,49,50,60,77,79,200,243
```

Define VLANs Allowed on Trunk Link

1. First navigate to the interface for the port or port-channel.

```
config t  
int e1/1
```

Below for a port-channel.

```
config t  
int port-channel 1
```

2. Ensure the port/port-channel is a trunk.

```
switchport mode trunk
```

3. To add a VLAN, use the following command to add the VLANs necessary.

```
switchport trunk allowed vlan add 7,10,20
```

4. To remove a VLAN, use the following command.

```
switchport trunk allowed vlan remove 5-10,12
```

LACP Port-Channel Access

1. Enter the configuration mode.

```
config t
```

2. Enter the interface/s that you want to add to the port channel/LACP.

```
int e1/5
```

For multiples use below.

```
int e1/5-6
```

3. Give a description of the ports.

```
desc MUT7-RACK-SWI-POE1
```

4. Configure the port/s as a switchport.

```
switchport
```

5. Configure the port/s as access.

```
switchport mode access
```

6. Configure the port as a port-channel. `Active` sets the interface to LACP Active, `Passive` sets it to LACP Passive, and not setting a mode defaults to `On`.

```
channel-group 1 mode active
```

7. Enter the configuration for the port channel.

```
int port-channel 1
```

8. Give a description of the port-channel.

```
desc MUT7-RACK-SWI-POE1
```

9. Configure the port-channel as an access port.

```
switchport mode access
```

10. Issue the command `no shutdown` to enable the port.

```
no shutdown
```

11. Add VLAN, if needed, to the port-channel interface.

```
switchport access vlan 20
```