

How to configure the AP on the access layer switch



AI Overview

To configure an AP on an access layer switch, you must set up VLANs, trunk ports, management IPs, and ensure proper AP discovery mechanisms are in place.

Step 1: VLAN Configuration Create the VLANs that the AP will use for wireless clients. For example, you might have VLAN 21 for corporate users and VLAN 22 for guest users. These VLANs must exist on the access layer switch and be extended to the AP via a trunk link to allow multiple VLANs to traverse the same interface.

Step 2: Configure Trunk Ports Set the switch port connecting to the AP as a trunk port using 802.1Q encapsulation. This allows the AP to carry multiple VLANs for different SSIDs. If using an autonomous AP, also configure a dedicated management VLAN for remote management, which is separate from the data VLANs. Example Cisco CLI:

```
CodeCopyinterface GigabitEthernet1/0/1
switchport mode trunk
switchport trunk allowed vlan 21,22,10
```

Here, VLAN 10 could be the management VLAN for the AP.

Step 3: Assign Management IP For autonomous APs, assign a management IP address on the management VLAN. This allows SSH or web access to configure SSIDs, RF parameters, and security settings. Lightweight APs typically obtain their management IP via DHCP and join a Wireless LAN Controller (WLC) using CAPWAP.

Step 4: AP Discovery and Join Ensure the AP can discover the switch or WLC. Discovery methods include:

- Layer 2 or Layer 3 CAPWAP discovery for lightweight APs
- DHCP Option 43 to provide controller IPs
- DNS discovery using CISCO-CAPWAP-CONTROLLER.localdomain

Make sure the switch has the correct date and time to avoid certificate issues during CAPWAP join.

Step 5: Port Roles and Profiles Configure the AP port as an uplink to the access switch. Uplink ports carry management traffic, client traffic, and tunnels to controllers if applicable. Downlink ports, if present, can...

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Save the running configuration. At the prompt, type: save config Switch to the shell prompt by running the following command: shell Create a copy of the ns nf file.

Access point port usage | TechDocs

An example of uplink and downlink port usage for various AP types is depicted below. In this example all APs connect to the access switching layer using their Ethernet 0/0 ports which have

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Configuring the Switch for Access Point Discovery

In a CAPWAP environment, a lightweight access point discovers a switch by using CAPWAP discovery mechanisms and then sends a CAPWAP join request to the switch. The switch sends a CAPWAP

Autonomous AP Access Point Configuration

This article shows the switch configuration in an Autonomous AP deployment. The traffic flow when using Autonomous AP mode is also explained.

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As we make SSMS 20 generally available, we'll share information about the current SSMS roadmap.

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AP and WLC configuration at the switch level

Today in this article I am going to explain the configuration of AP and WLC at the switch level uple of times while troubleshooting basic wireless like AP not joining the WLC, new...

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Restrict access to the obfuscation configuration, logs, and any intermediate exports that may contain raw values. Verify effectiveness: Add validation steps to confirm that sensitive values

How to Configure Private VLANs on EX Series Switches

Description This article provides a step-by-step guide on configuring Private VLANs (PVLANS) on Juniper EX Series switches. It explains the concepts of primary & isolated VLANs, along with the

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The tracert tool only provides information for Layer 3 (L3) devices in the path, such as routers. If packet loss occurs at the first hop and traffic must

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Accessing the local status page Most Cisco Meraki devices have a local status page that you can access to make local configuration changes, monitor device status and channel utilization,

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Cisco wireless architectures and AP modes - IT Networking Skills

APs extend a switched network, connecting SSIDs to wired VLANs at the access layer. An AP performs a number of important functions in a BSS: Layer 2 bridging: APs do L2

Lightweight Access Point (AP) Configuration

This article will show you how to configure the switches in the Cisco Lightweight Access Point deployment and how the traffic flow with LAP.

Autonomous AP architecture | NetworkAcademy.IO

The access point (AP) allows wireless clients to connect to a wired network using radio signals, just as if they were connected via cables to the switched network.

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Overview of the high availability pair upgrade process The HA pair upgrade process includes the following steps: Upgrade software on the secondary node. Upgrade

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