

Chad Network Distribution Box Configuration Requirements



Article Overview

Proper configuration of network distribution boxes involves setting IP addresses, subnet masks, gateway parameters, and controller-specific flags to ensure connectivity and DHCP functionality.

Key Configuration Steps

1. IP Addressing and Subnet Configuration Each distribution node (DN) or network box must have a unique IP address, subnet mask, and default gateway to communicate within the network. Ensure that the IP addresses are within the correct CIDR range for your network. For NAT or DHCP-enabled networks, the DHCP server must reflect the correct network CIDR to allocate addresses properly; otherwise, devices may fail to receive valid IPs or network parameters . 2. Controller Communication and Prefix Allocation In multi-PoP (Point of Presence) networks, distribution nodes rely on the E2E Controller to receive IPv6 prefix allocations. The parameter flags.enable_pop_prefix_broadcast determines how prefix allocation messages are sent:

- true: Controller sends prefix allocation to all PoPs individually, useful if PoPs are temporarily isolated.



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