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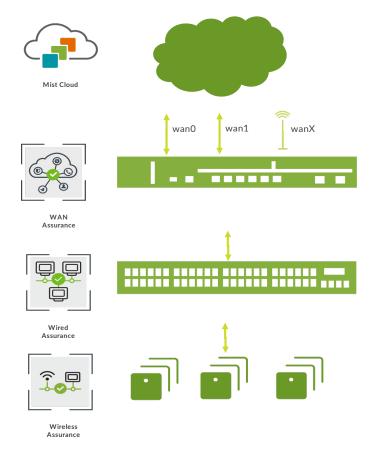
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Topology





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NETWORKS

WAN Design

Concepts and Methodology

Users

Applications

Topology

Policy

Scale

- "Who" are my user & device segments
- Segmentation of networks
- "What" are my users connecting to
- Network services
- SaaS
- Private subnets
- Cloud workloads

- "Where" are my sites
- Define site types
- Transports connecting them
- Overlay paths

- "How" sessions are delivered
- Access
- Security
- SLA
- Routing
- QoS

- Templates & Automation
- Identify site type configs
- Save site specific variables

Wan edge Definitions

Hub Profiles:

A Hub profile automates the Overlay definition with a path per Hub WAN link

Networks:

Define the subnet. Create LAN segments. Define NAT rules and Users (source addresses to be used in policies)

Applications:

Define applications based on addresses, apps, app categories or hostnames.

WAN Edge Template Type: Standalone or Spoke

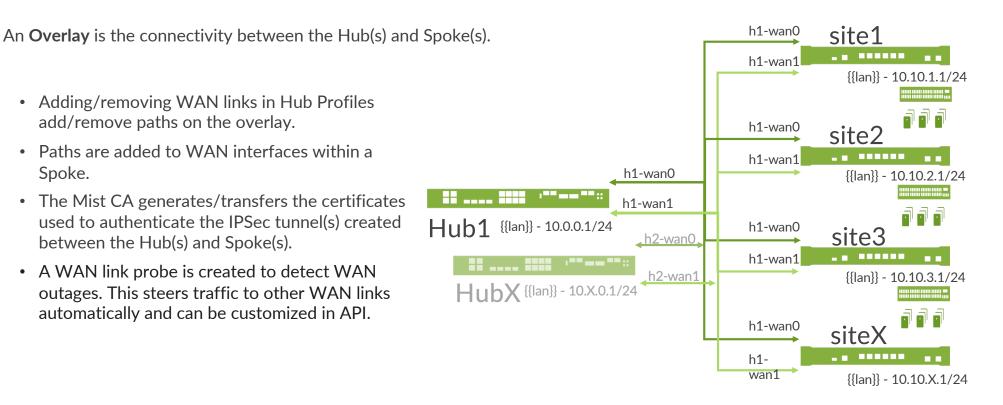
- Create WAN Interface(s)
- Select overlay path on WAN interface(s)
- Define/Select LAN Network(s)
- Specify the traffic steering preferences
- Define User intent-based Service Policies
- Define Routing policies Static, BGP, OSPF



Wan edge Definitions: Overlay and paths

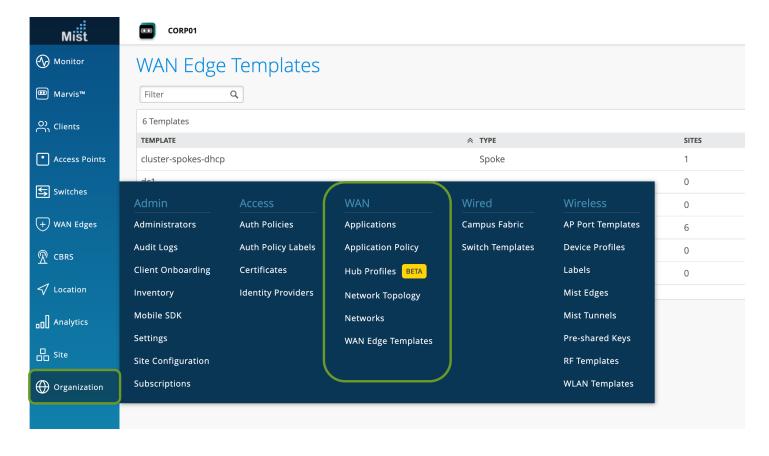
 Adding/removing WAN links in Hub Profiles add/remove paths on the overlay.

- Paths are added to WAN interfaces within a Spoke.
- The Mist CA generates/transfers the certificates used to authenticate the IPSec tunnel(s) created between the Hub(s) and Spoke(s).
- A WAN link probe is created to detect WAN outages. This steers traffic to other WAN links automatically and can be customized in API.



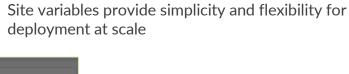
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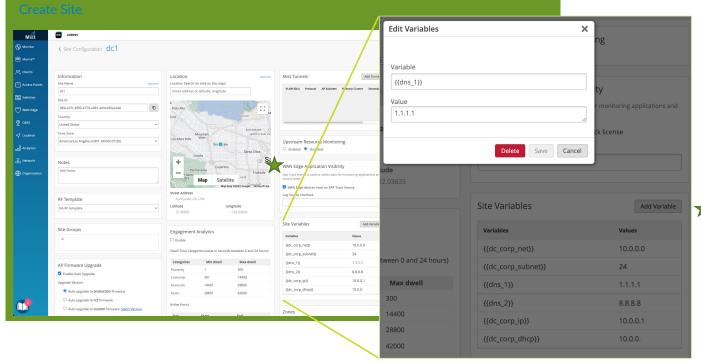
WAN Edge UI navigation



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STEP 1: Site Creation and site-specific variables





Please ensure your device has the application signature package installed. Mist will perform this for you if you enable at the site level (WAN Edge Application Visibility) or on the device.

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STEP 2: Networks

"Who" are my users & devices?

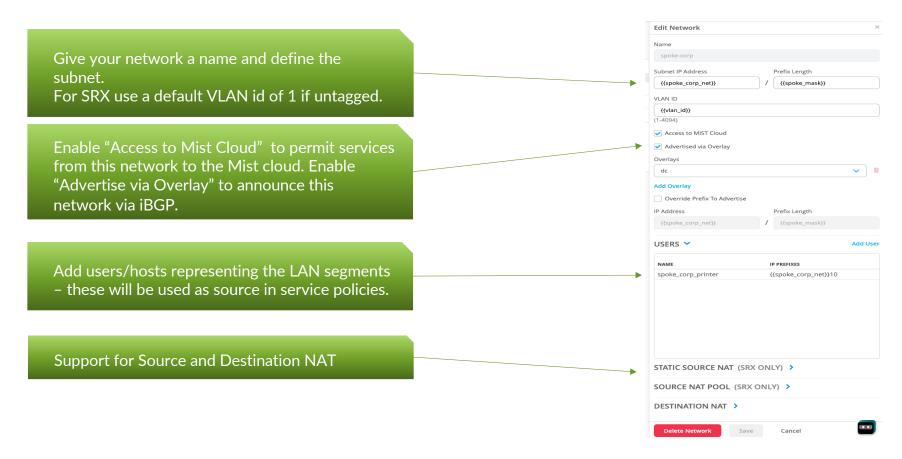
• How is my network segmented?



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STEP 2: DEFINE the Network

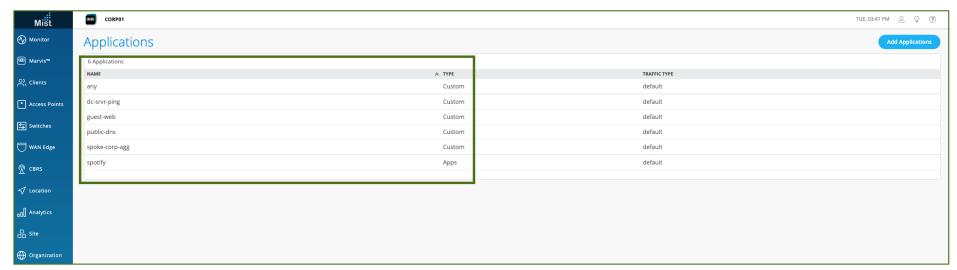


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STEP 3: Applications

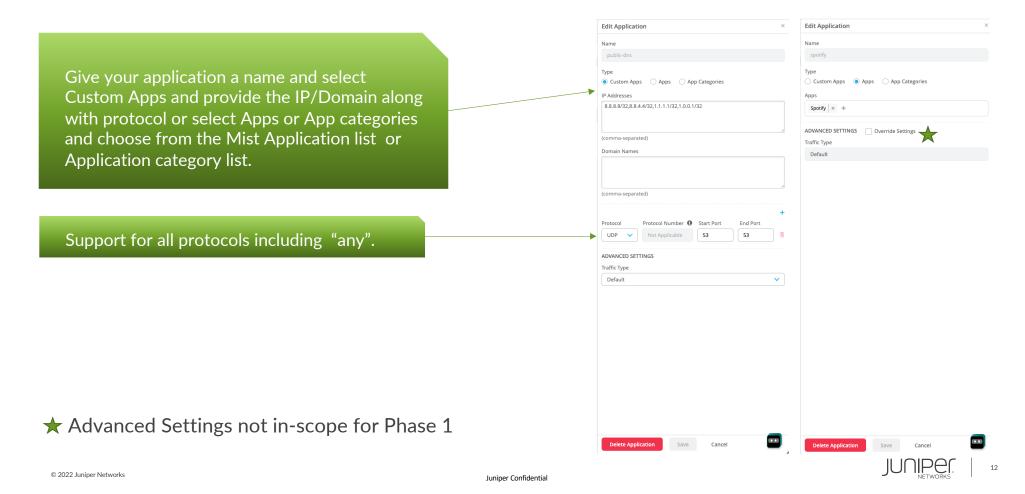
"What" are my users connecting to?

- Network services
- SaaS apps
- Private subnets
- Cloud workloads



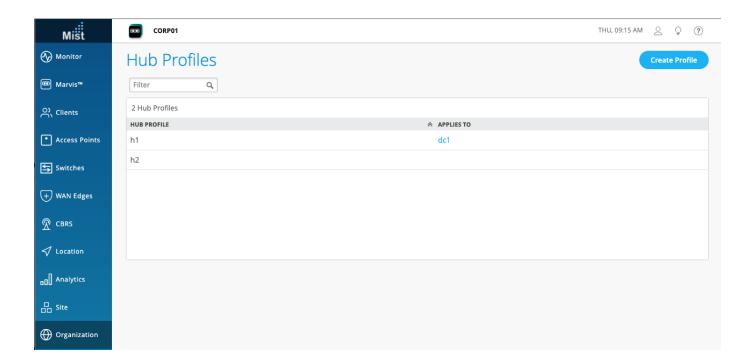
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STEP 3: DEFINE applications



STEP 4: Wan edge Hub Profiles

Hub Profiles are assigned to stand-alone or clustered devices and automate Overlay Path creation. Each WAN link will have a path that can be selected on a Spoke Device/Template.



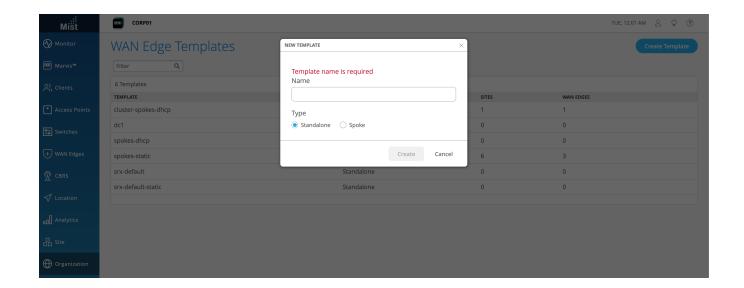
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STEP 5: Wan edge templates

This is where the "who", "what", "where", "how" constructs come together.

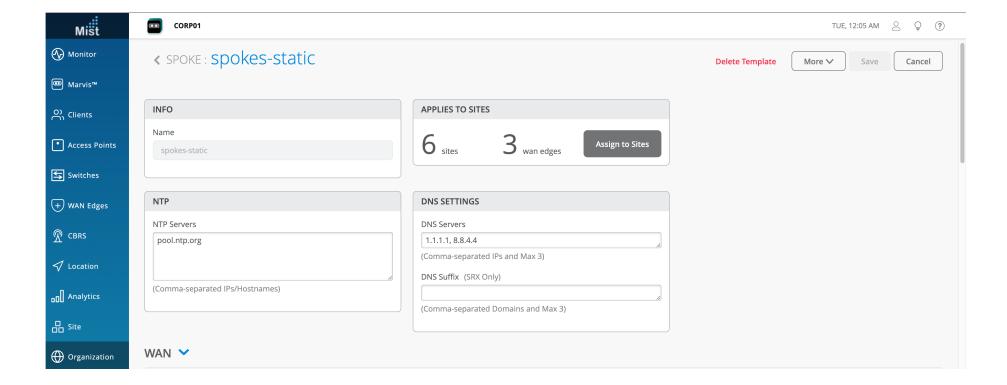
Create a Standalone or Spoke template

Spoke templates are used to connect remote locations to hub devices

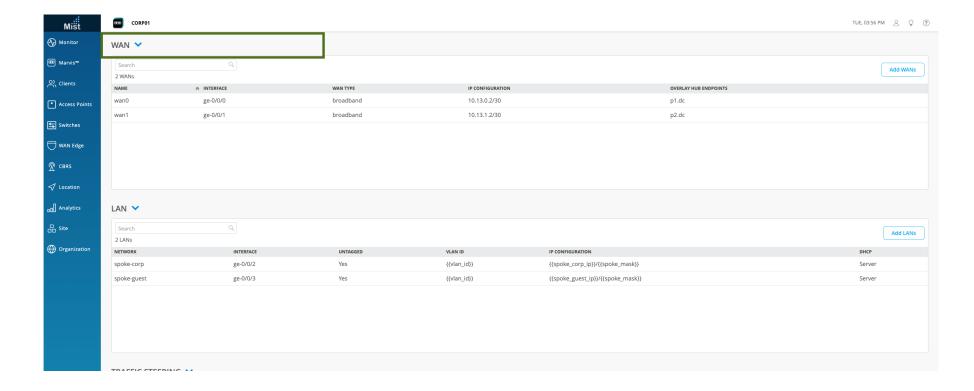




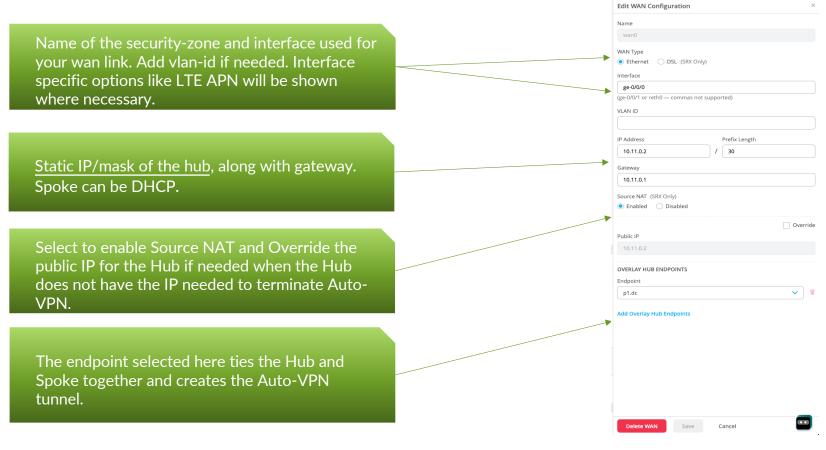
STEP 5: Wan edge template - DNS/NTP settings



STEP 5A: Wan edge template - Wan

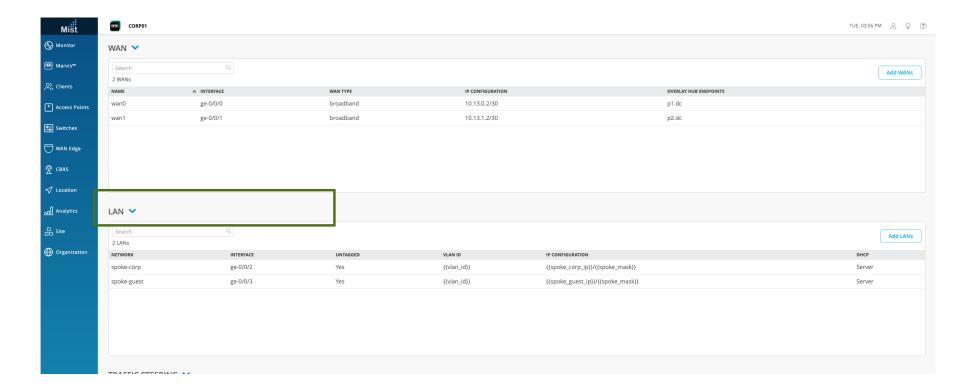


STEP 5A: Wan edge template- wan detail

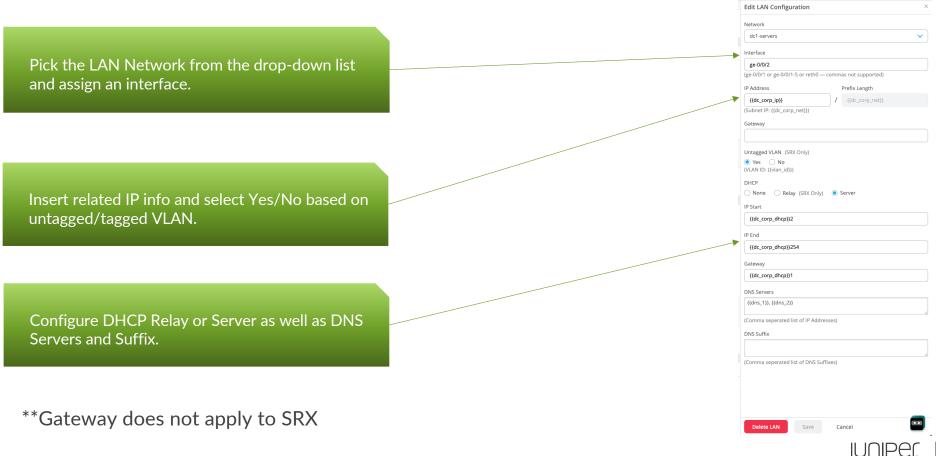


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STEP 5B: Wan edge template - lan



STEP 5B: Wan edge template- lan detail



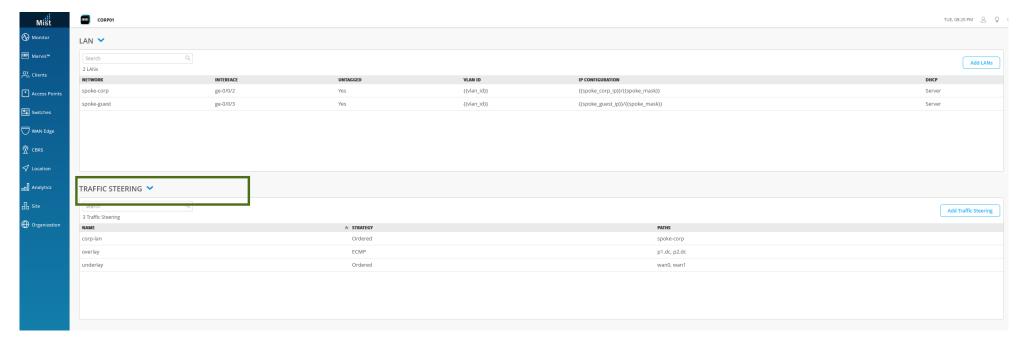
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STEP 5C: Wan edge template – traffic steering

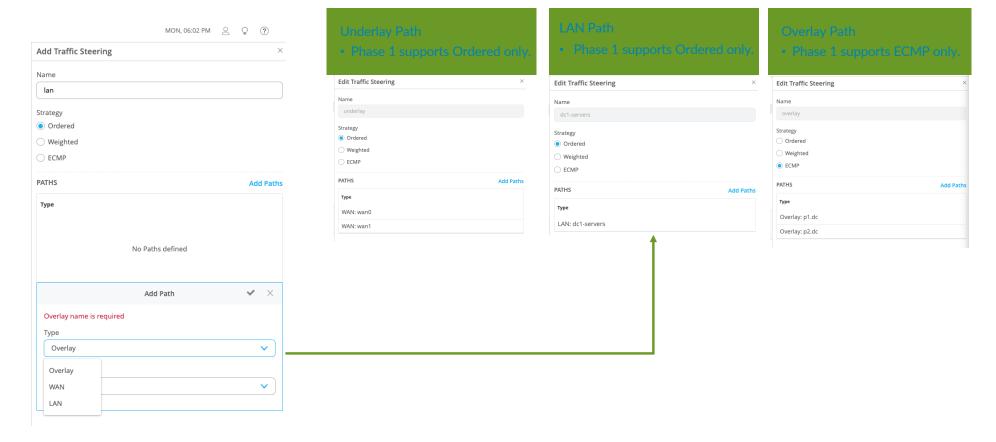
"How" to steer the user traffic?

- Path preference
- Routing, Overlay, Underlay
- SLA
- QoS



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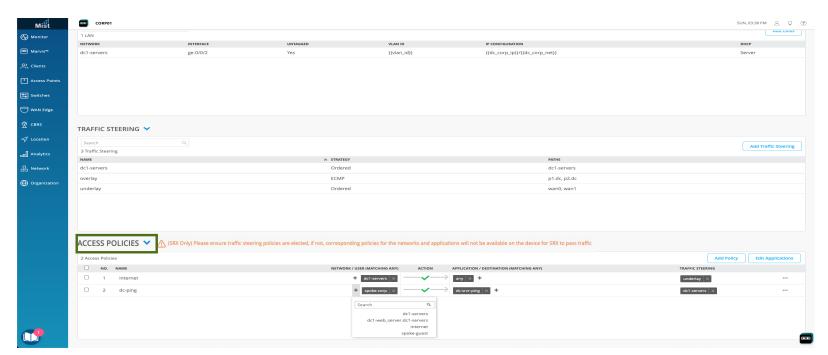
STEP 5C: Wan edge template- traffic steering detail



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STEP 5D: Wan edge template – access policy

"Who" can access "what" and "how"?





STEP 5D: Wan edge template - access policy detail

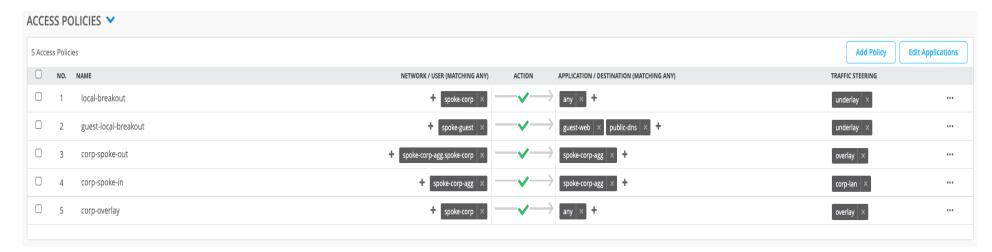


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STEP 5D: Wan edge template – access policy spoke example



Policy 1 - addresses local breakout via underlay.

Policy 2 - addresses local breakout via underlay for guest allowing only ports tcp/80,tcp/443,udp/53

Policy 3&4 - addresses spoke<->spoke traffic out/in using aggregate network attached to overlay.

Policy 5 - addresses Internet breakout via overlay at the Hub.

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STEP 5D: Wan edge template – access policy hub example



Policy 1 - addresses local breakout to internet via underlay.

Policy 2 - addresses connectivity to a server behind the Hub.

Policy 3 - addresses Internet breakout at the Hub - here spoke-guest network breaks out to Internet at the hub using Hub underlay.

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STEP 5E: Additional cli

For configuration settings that are not natively supported in Mist model use the Additional CLI commands. Additional CLI is available within the template and at the device level. Additional CLIs from the template are merged with the CLIs at the device level.

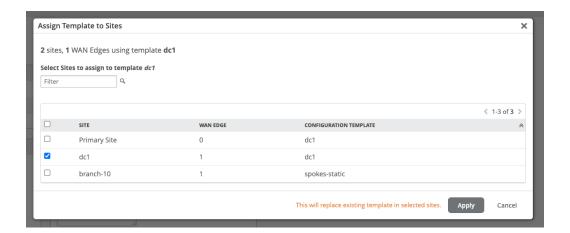


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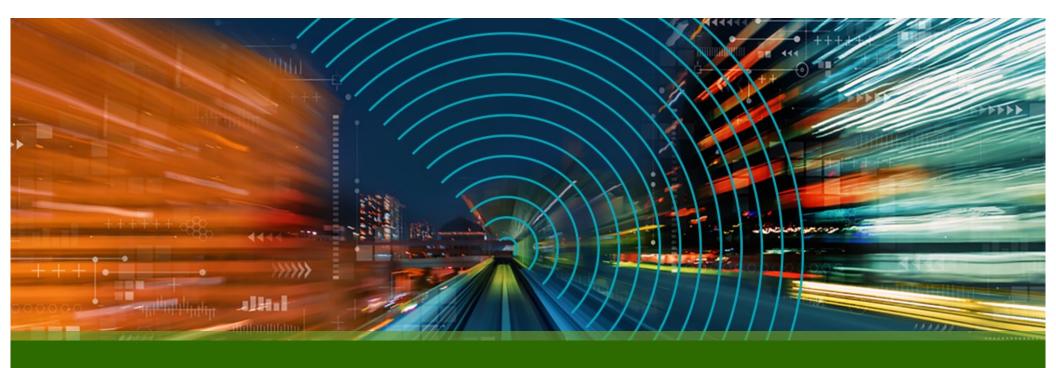
STEP 6: Wan edge template – site assignment

Assign the WAN Edge template to site (s)



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THANK YOU

