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Leveraging Cisco SDWAN API's to simplify operations and deployments

API first approach for SDWAN

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Cisco Webex App

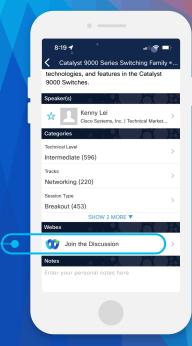
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

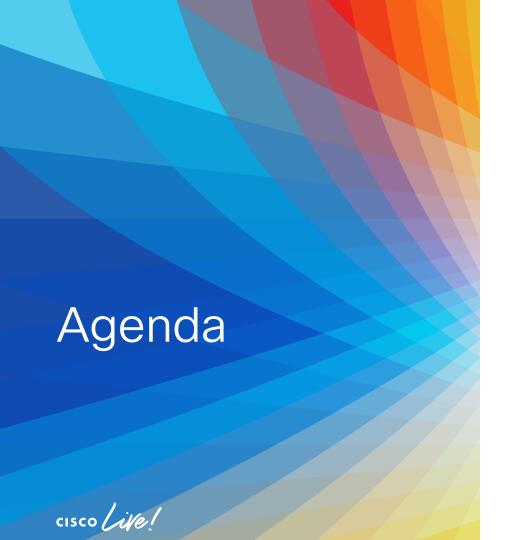
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Webex spaces will be moderated by the speaker until December 22, 2023.



https://ciscolive.ciscoevents.com/ciscolivebot/#DEVNET-2205



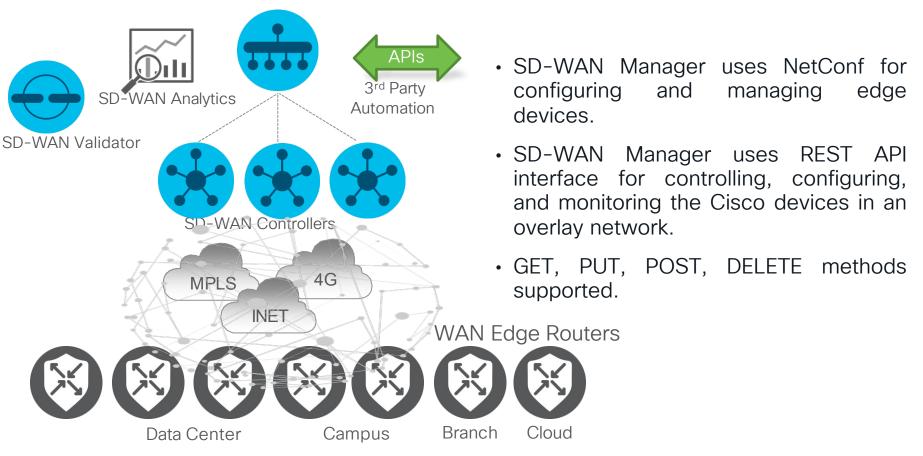


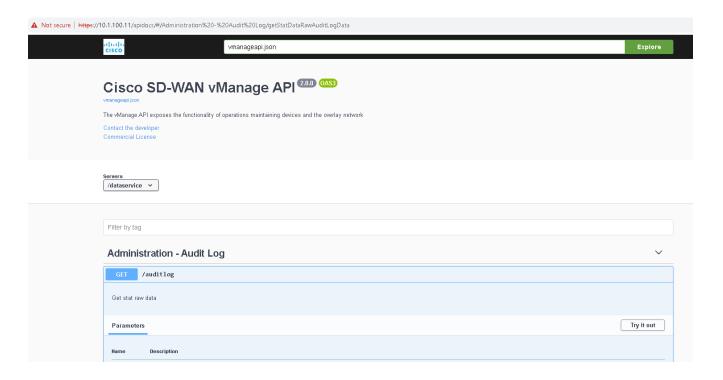
- Introduction to SD-WAN API's
- Use-Cases with SD-WAN API's
- Configuring SASE with SD-WAN using Templates.
- Demo
- Configuring SASE with SD-WAN using API's.
- Demo
- Tools at your disposal.

Introduction to SD-WAN API's



Cisco Catalyst SD-WAN Manager





- Built-in API Documentation https://<vmanage-ip:port>/apidocs
- Test API calls can be tried out from swagger UI
- API Documentation: https://developer.cisco.com/docs/sdwan/



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URI Structure

https://vmanage-ip:port/dataservice/device/bfd/state/device?deviceld=1.1.1.7

Server or Host Resource Parameters

https://

 Protocol over which data is sent between client and server

Server or Host

 Resolves to the IP and port to which to connect

Resource

 The location of the data or object of interest

Parameters

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 Details to scope, filter, or clarify a request. Often optional.



Use-Cases with SD-WAN API's



Problem Landscape with SDWAN

- Time Consuming and Error-prone Manual Configuration.
- Vendor Interoperability.
- Lack of Visibility and Control.



Use-Cases with SD-WAN API's

- Standardization of sites.
- Ease of deployment.
- Ease of management.
- Opens Ability to Integrate with 3rd party apps.
- Save Time and Simplify Operations.
- Save Operational Cost.

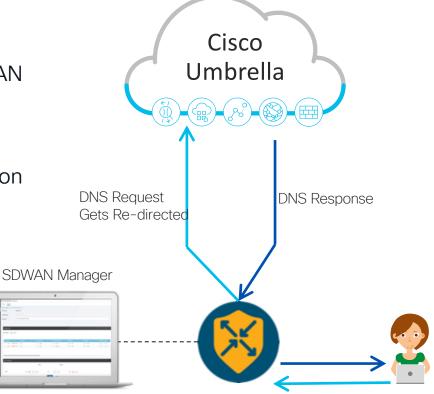


Configuring SASE with SD-WAN using Templates.



DNS Redirection to Umbrella Steps

- Perform Umbrella Registration
- Configure DNS Security Policy on SDWAN Manager
- Attach DNS Security policy to Template
- Map Network Identity DNS Policy on Umbrella



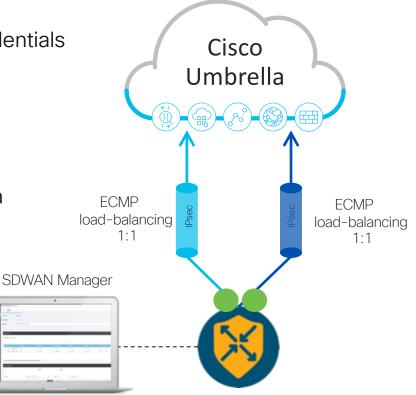


Umbrella SIG Integration Steps

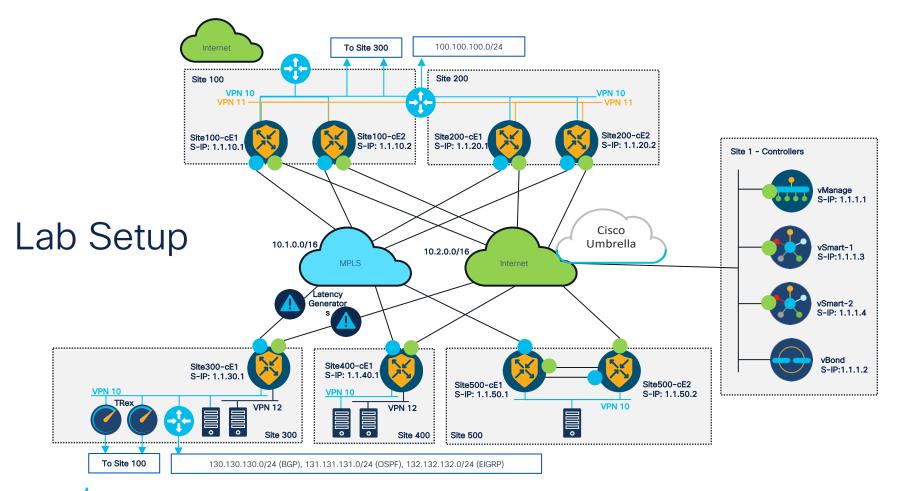
Configure Feature Template for SIG-Credentials

Configure SIG-Tunnel Templates

- Map templates to device Template
- Add service route in Service VPN
- Map policies to IPSEC tunnels in Umbrella









Demo



Challenges faced during Manual Configuration.

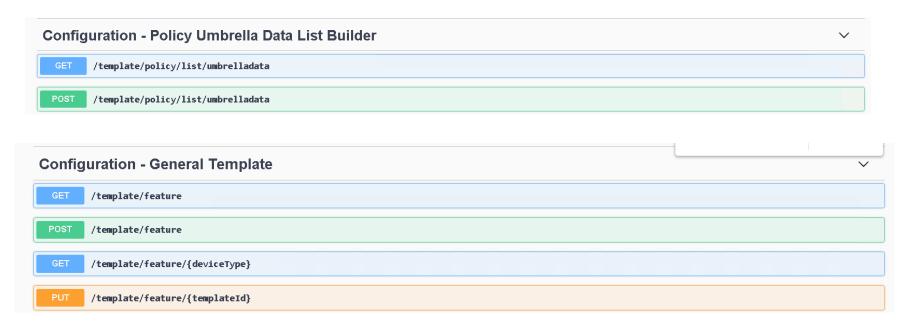
- Multiple Touch Points.
- Time Consuming.
- Error Prone.
- Repetitive Configuration due to Templates.



Configuring SASE with SD-WAN using API's.



Some API's used for Umbrella SASE Integration





Demo



Tools at your disposal



Tools

- DCLOUD/SDWAN POC TOOL
 - Custom Topology

https://dcloud2-sng.cisco.com/content/demo/494776?returnPathTitleKey=content-view

Pre-Build Dual DC Topology

https://dcloud2-sng.cisco.com/content/demo/488086?returnPathTitleKey=content-view

GPSA

https://salesconnect.cisco.com/globalpartnerengineering/s/global-partner-solution-advisors

GVSE

https://gve-devnet.cisco.com



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