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# 咨询专家 Ask the Expert

思科SD-WAN (Viptela)日常 运维功能介绍



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# This session is for you if:

- SD-WAN solution is deployed
- You are familiar with some of the SD-WAN management tools
- You are looking for best practices to operationalize your SD-WAN

What you will learn today to help you on your Cisco SD-WAN journey

How can you get more value from Cisco SD-WAN?

SD-WAN overview architecture primer

SD-WAN management

vManage fundamentals&monitoring

Demo

SD-WAN operations templates, tools, and commands

Demo

SD-WAN programmability
API integration

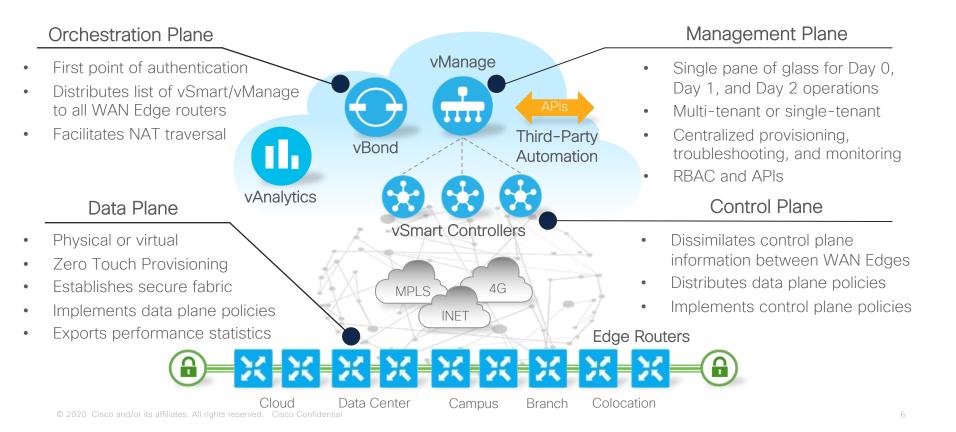
Demo



SD-WAN overview and vManage



# Cisco SD-WAN architecture



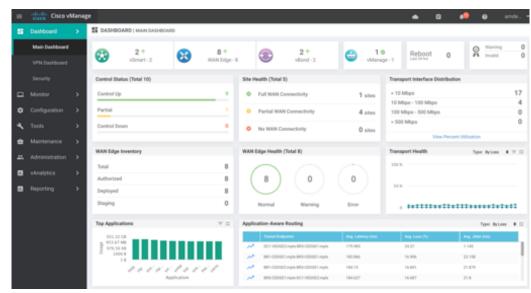
# vManage dashboard

Starting point to access the vManage GUI

The vManage dashboard contains vital information, including:

- Status of the controllers and WAN Edge device
- Overall health statistics for WAN Edge
- WAN Edge inventory
- Top applications
- Application-aware routing statistics
- WAN transport health

Serves as a launching point to access more detailed information



# Using vManage to monitor the network

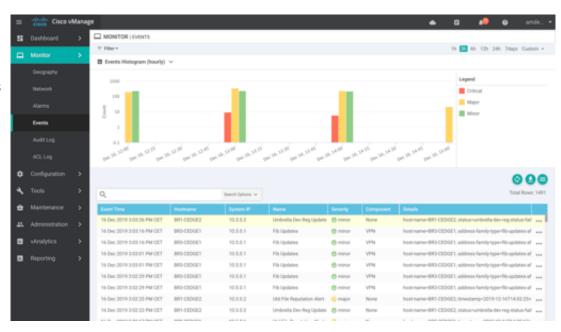
### Monitoring capabilities include:

#### Alarms

- Up/down status of all SD-WAN components
- WAN Edge health
- Application flow visibility
- Transport health visibility
- Individual WAN Edge status and statistics

#### Logs

- Event logs
- Audit logs
- ACL logs





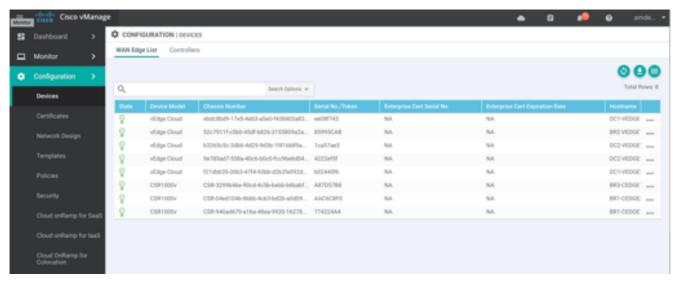


SD-WAN operations

# SD-WAN operations

### Configuration management

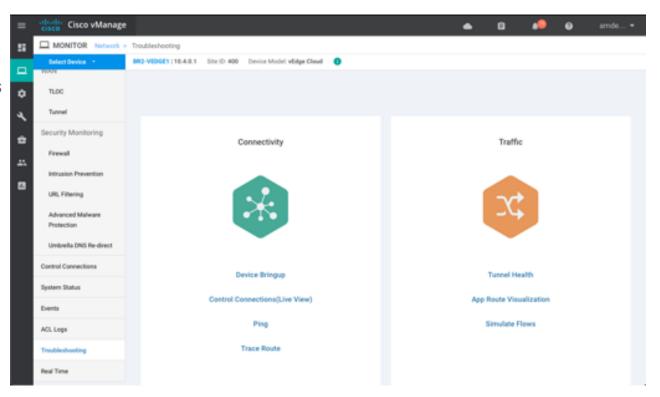
- Managing templates
- Creating templates
- Updating templates

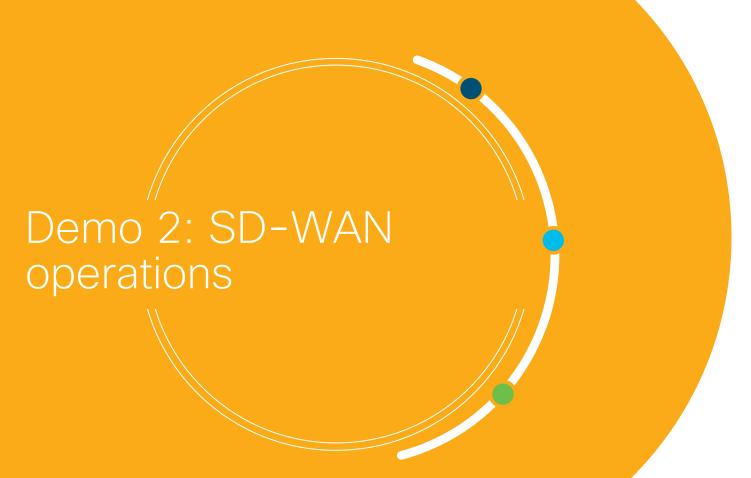


# SD-WAN operations

#### Tools

- Operational commands
- Troubleshooting
- Network discovery
- Software upgrades

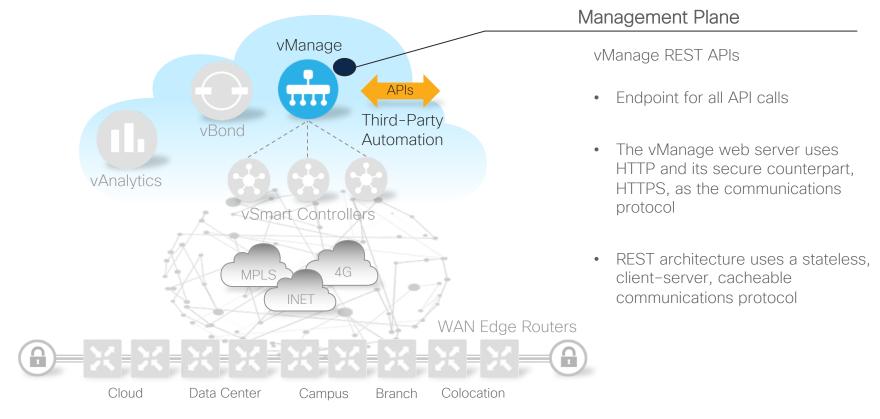




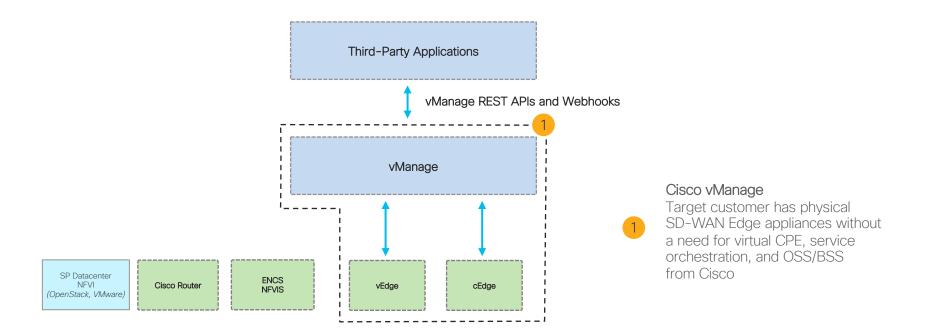
SD-WAN Programmability



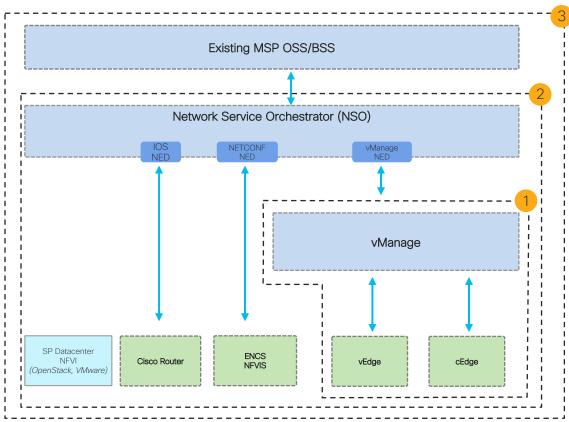
### Cisco SD-WAN API framework



### Cisco SD-WAN Automation Stack



### Cisco SD-WAN Automation Stack for MSPs



OSS/BSS integration with existing MSP OSS/BSS

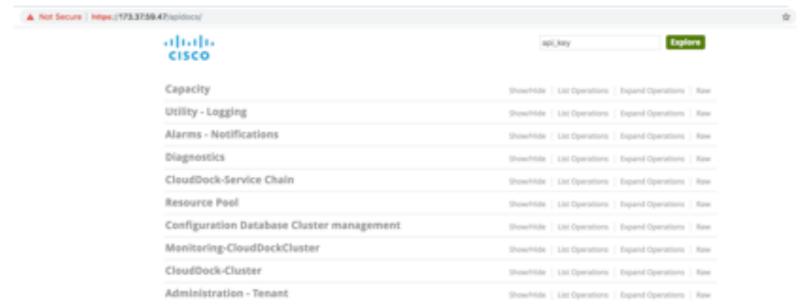
Extended SD-WAN orchestration

Target customer has virtual CPEs; orchestration of other-than-physical SD-WAN Edge appliances is required without a need for OSS/BSS from Cisco

Cisco vManage

Target customer has physical SD-WAN Edge appliances without a need for virtual CPE, service orchestration, or OSS/BSS from Cisco

# vManage: using REST APIs



- API Documentation built in: https://<vmanage-ip:port>/apidocs
- Test API calls can be tried out from Swagger UI

# Options for working with REST APIs

### Curl

Linux command line application

### Postman

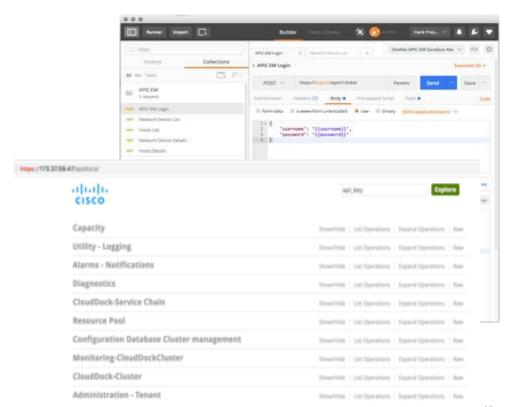
API testing application and framework

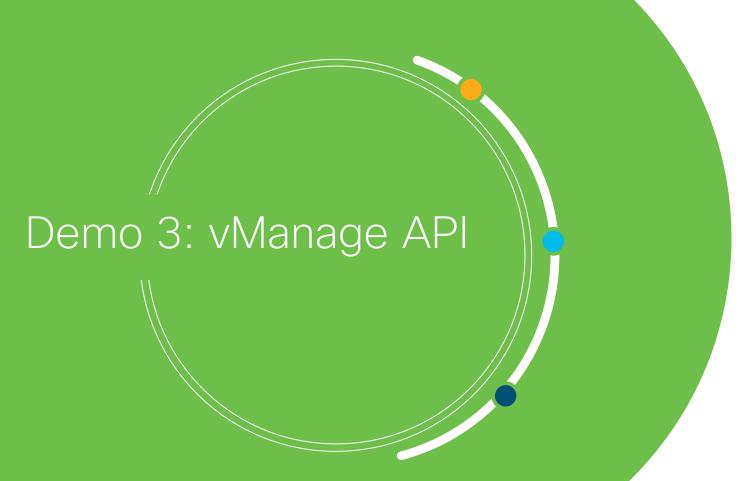
### Requests

Python library for scripting

### OpenAPI/Swagger

Dynamic API documentation





# Key points to remember

vManage is a single pane of glass that gives visibility into what is happening on the SD-WAN

vManage includes the tools to manage, maintain, and monitor the SD-WAN

The vManage API is a powerful tool that can be used to automate management processes and procedures used in the SD-WAN

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