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CCNP: Diving into the new Multicloud Certifications

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[@YusufBhajji](https://twitter.com/YusufBhajji)
BRKCRT-2679

Cisco Webex App

Questions?

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

How

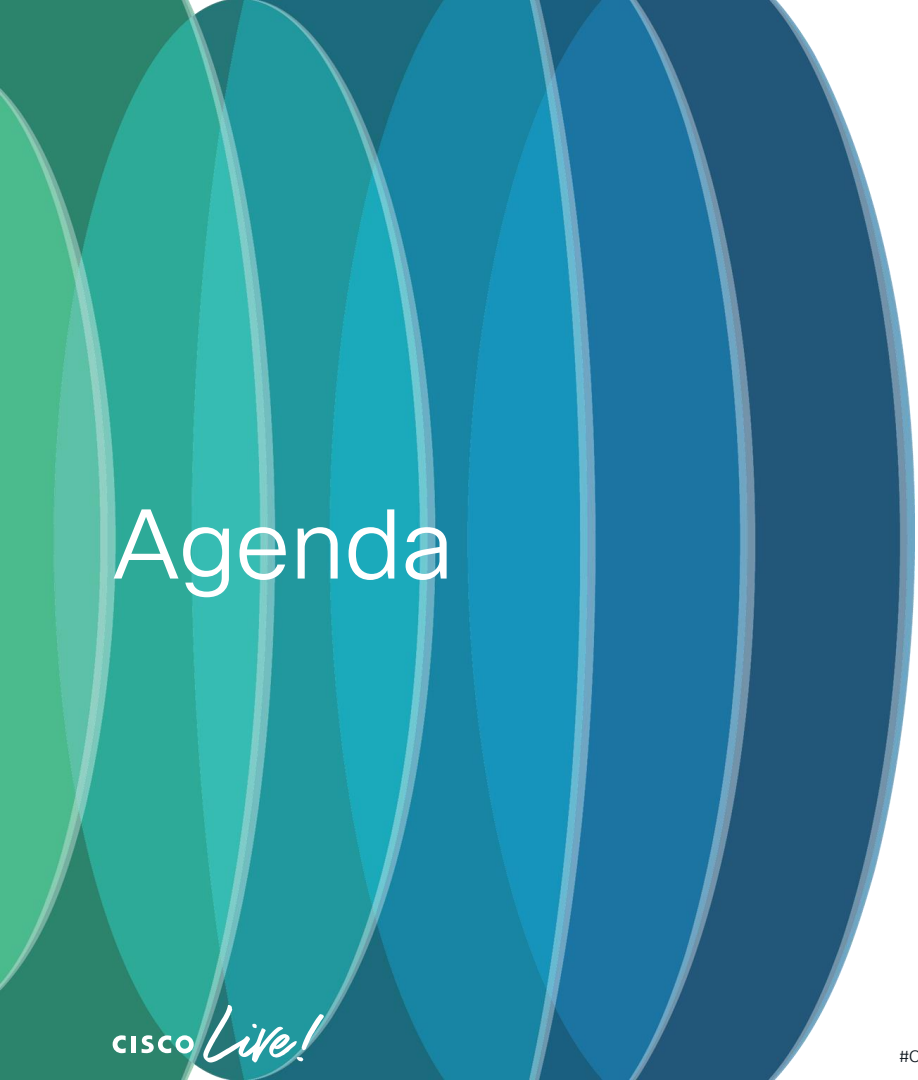
- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until November 15, 2024.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKCRT-2679>

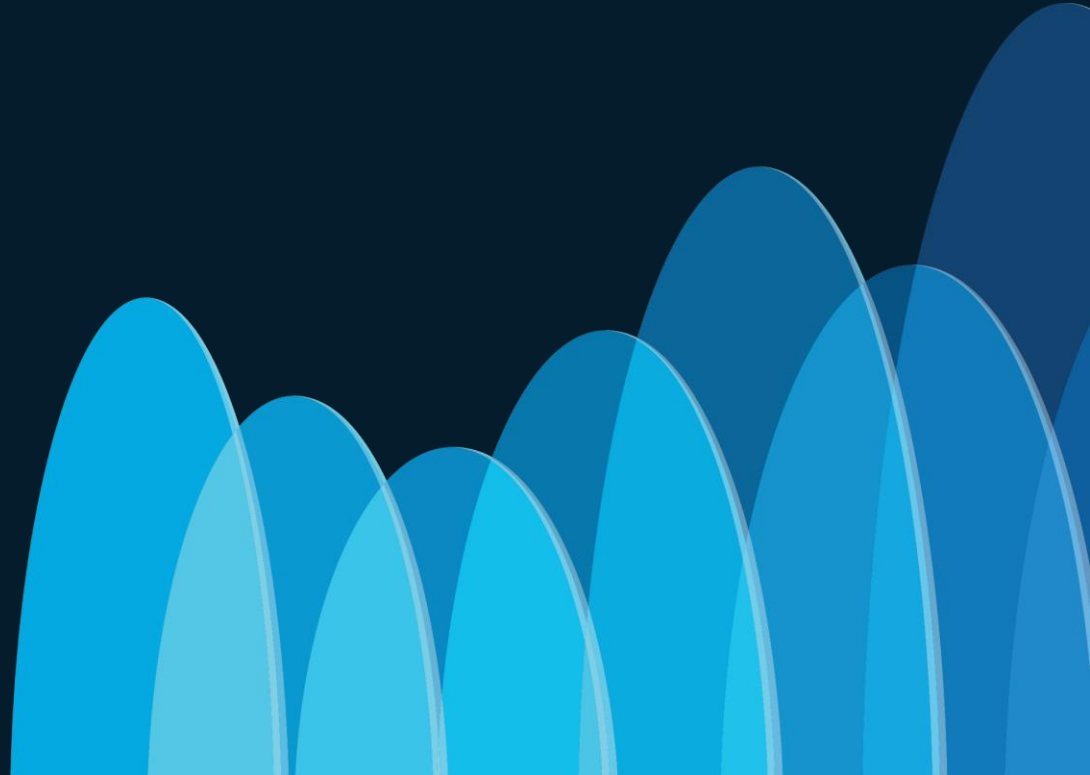




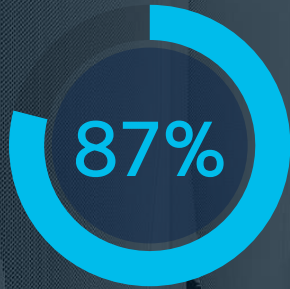
Agenda

- Multicloud Journey
- Value of Cisco Certification
- Cisco Multicloud Specialist Certifications
- Cloud in your network
- What to expect!
- Preparing for the new exams
- Q&A

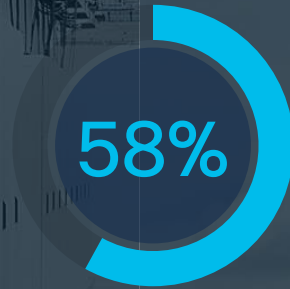
Multicloud Journey



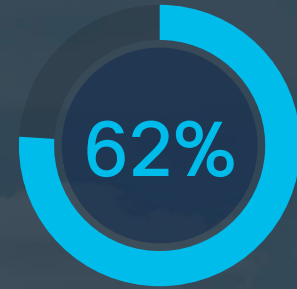
Multicloud are the defacto IT model...



Organizations are
operating Multicloud
Environment today



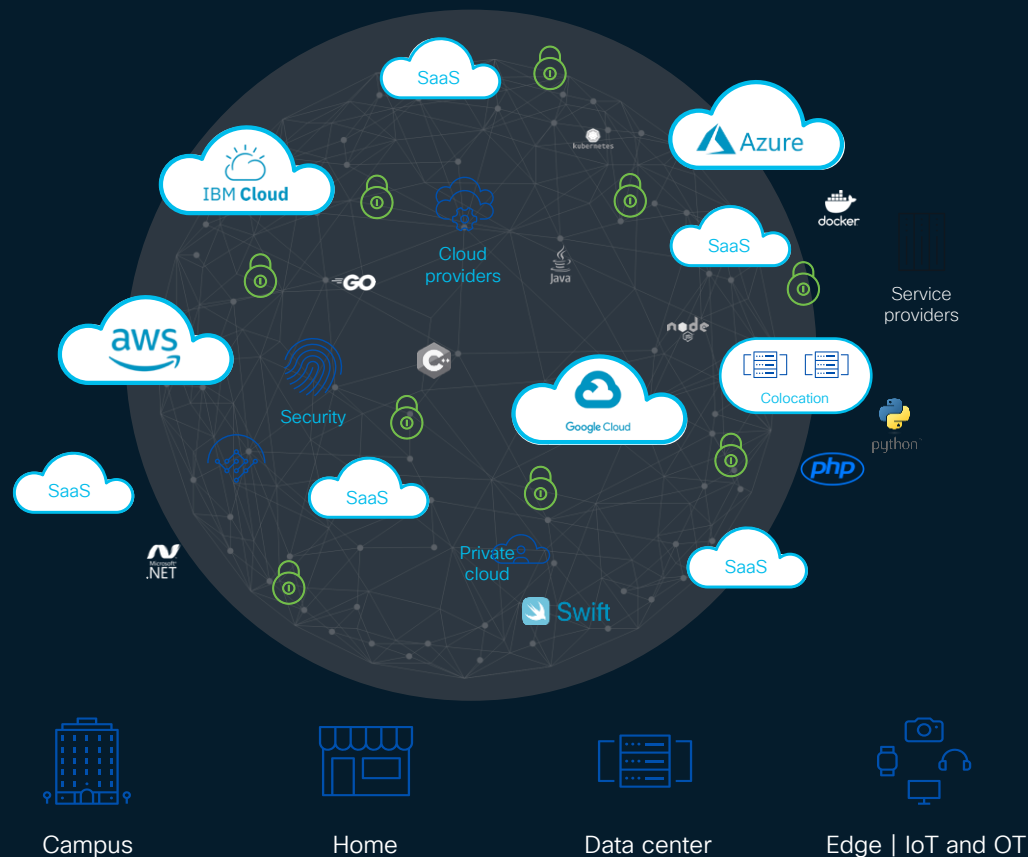
are moving workloads
between on and off-premises
environments weekly¹



Organizations are using
Multicloud tools to address
business challenges

451 Research and Cisco, "Global Hybrid Cloud Trends Report", May-22
IDC, "Hybrid Cloud: An Inevitability for Most Enterprises", Oct-21
Flexera State of Cloud 2023 Report

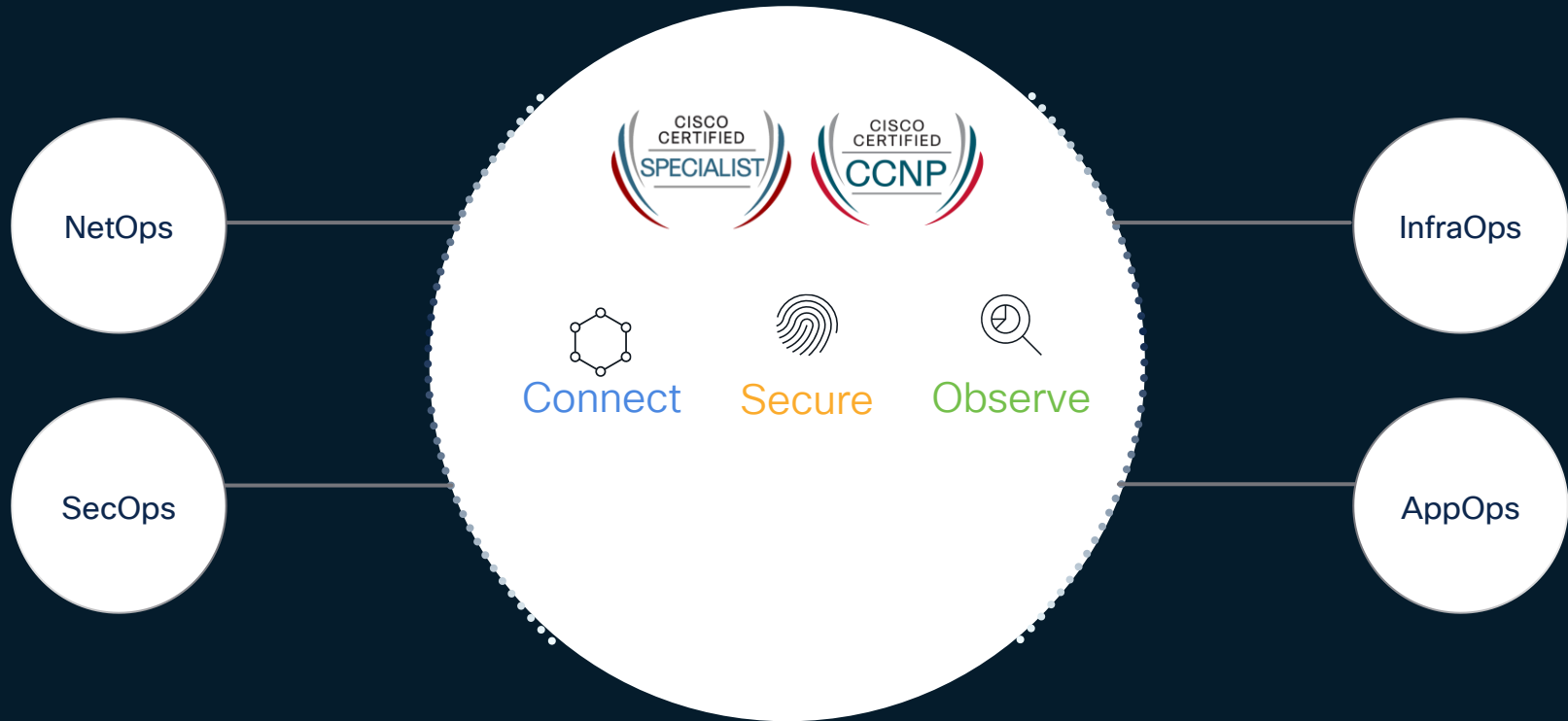
Multicloud app-centric infrastructure is now the de facto operating model



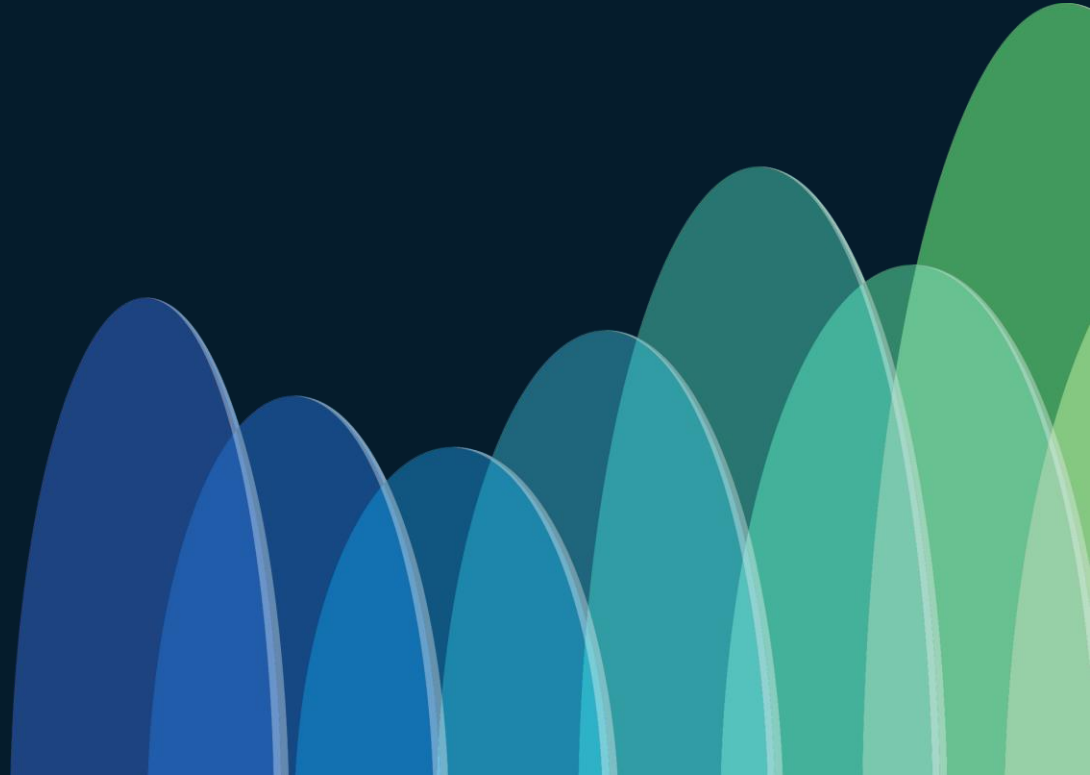
Capabilities for Multicloud Journey



Capabilities for Multicloud Journey



Value of Certification



Benefits of Cisco Certification

- ✓ More attractive to hiring companies and existing managers
- ✓ Ability to gain a higher salary
- ✓ Keeps you in sync with changing technology

The benefits of certification are real:

37% of respondents received a salary increase after earning their credentials

58% of those who earned a pay increase were rewarded within three months of getting certified, and **83% were rewarded** within six months

35% received pay increases of 30% or more

Cisco Certifications are time-honored proof you know what you're doing. Plus, they're ANSI and NIST certified, which means they're industry certs with greater value in the marketplace.

¹ [Pearson VUE 2023 Value of IT Certification](#)

Benefits of Cisco Multicloud Specialist Certifications

How Cisco Multicloud Specialist Certifications can improve your career as an IT professional



According to the Cisco *2022 Global Hybrid Cloud Trends Report*, 93% of organizations now operate in Multicloud environments

- Become more marketable as a sought-after Multicloud expert

- Architect optimal solutions using multiple cloud platforms

- Obtain a credential for leading intricate hybrid and Multicloud migration initiatives

- Gain an edge over cloud generalists by showcasing specialized Multicloud proficiency

- Combine with the relevant core Cisco professional exam to attain CCNP professional-level certifications

Future Trends and Tech Focus

TOP TECHNICAL AREAS FOR THE FUTURE

2020

2023

3-Year Change:

+7%

+7%

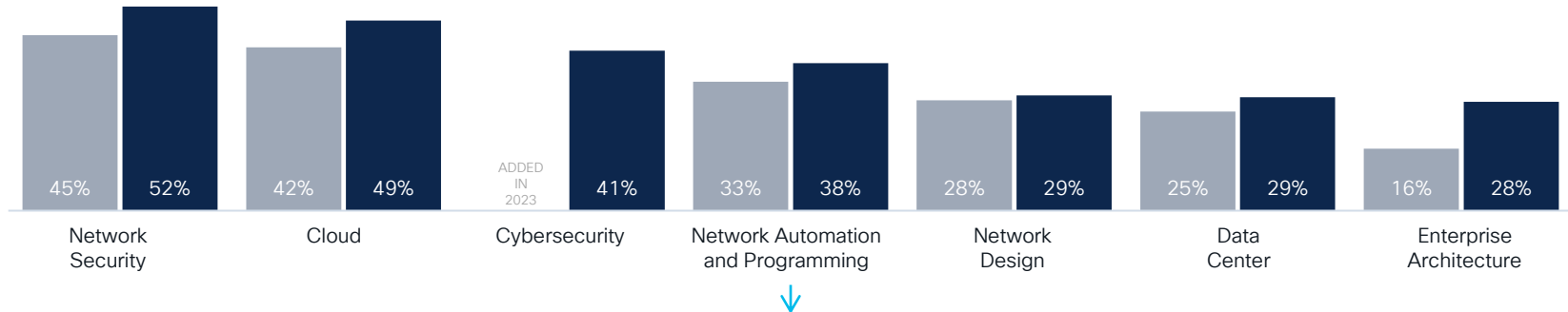
N/A

+5%

+1%

+4%

+12%



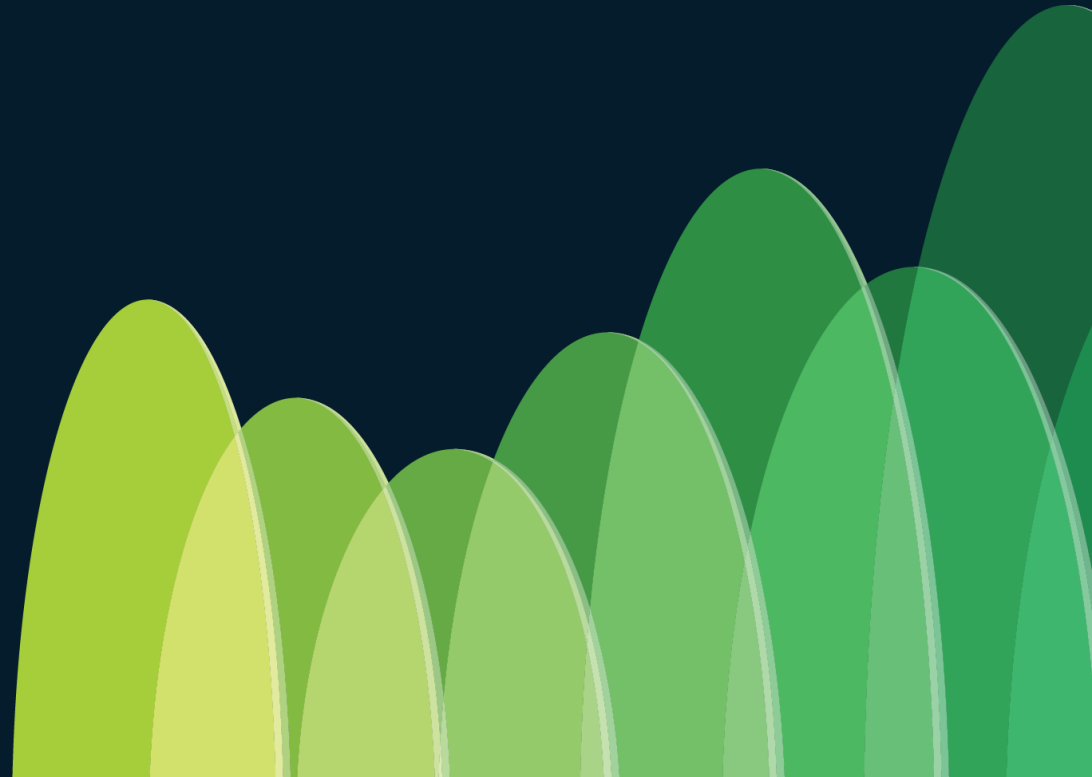
The increasing importance of Network Automation & Programming is also reflected in shifting IT responsibilities over the past 3 years.

Network Automation responsibilities have grown significantly among both Active and Inactive certification holders.

Specialty areas of interest in the next 12 months

Specialty areas by year and of future interest		
	2022	Intent to certify within 12 months
Cloud Computing (IaaS, PaaS and SaaS)	16.1%	38%
Cybersecurity	12.8%	34%
Security	9.8%	26%
Virtualization	5.5%	21%
Networking and Wireless	12.8%	21%
Servers	2.8%	16%
Artificial Intelligence/Machine Learning	1.1%	16%
DevOps	1.3%	15%
Analytics, Big Data and Data Warehouse	3.4%	14%
Storage	2.5%	12%

Cisco Multicloud Specialist Certifications



Cisco Multicloud Specialist Certifications and CCNP

- These exams are components of their respective CCNP certification tracks.
- They can be combined with the relevant core Cisco professional exam to attain CCNP professional-level certifications.

CCNP Certification Tracks and related Multicloud Concentration

CCNP Enterprise

- Designing and Implementing Cloud Connectivity (ENCC 300-440)
- Designing and Implementing Enterprise Network Assurance (ENNA 300-445)

CCNP Security Track

- Designing and Implementing Secure Cloud Access for Users and Endpoints (SCAZT 300-740)

Cisco Career Certifications

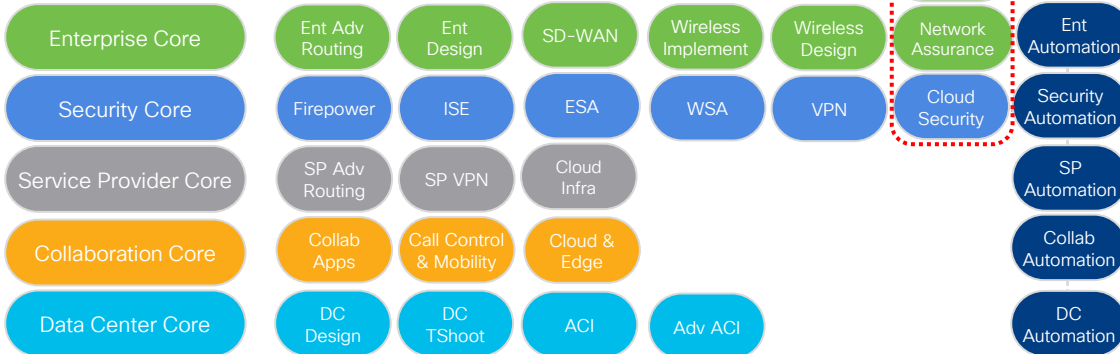


One Exam

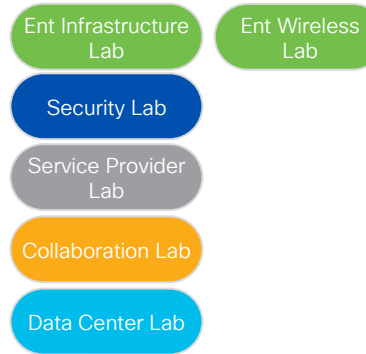
CCNA



Two Exams: Core + 1 Concentration



Core + Lab



One Exam

DevNet Associate



Two Exams: Core + 1 Concentration



Core + Lab



One Exam

CyberOps Associate



Two Exams: Core + 1 Concentration



CyberOps Expert



Designing and Implementing Cloud Connectivity (ENCC 300-440)

First date to test: September 20, 2023 (available now)

Exam certifies knowledge of designing and implementing cloud connectivity, including:



Architecture
Models



Design



IPsec Cloud
Connectivity



SD-WAN Cloud
Connectivity



Operation

1.0 Architecture Models	15%
2.0 Design	15%
3.0 IPsec Cloud Connectivity	25%
4.0 SD-WAN Cloud Connectivity	25%
5.0 Operation	20%

Designing and Implementing Secure Cloud Access for Users and Endpoints (SCAZT 300-740)

First date to test: November 20, 2023 (available now)

Exam certifies a candidate's knowledge of:



Cloud Security
Architecture



User and Device
Security



Network and
Cloud Security



Application and
Data Security



Visibility and
Assurance



Threat Response

1.0 Cloud Security Architecture	10%
2.0 User and Device Security	20%
3.0 Network and Cloud Security	20%
4.0 Application and Data Security	25%
5.0 Visibility and Assurance	15%
6.0 Threat Response	10%

Designing and Implementing Enterprise Network Assurance (ENNA 300-445)

First date to test: May 20, 2024 (available now)

Exam certifies a candidate's knowledge of:



Platforms and
Architecture



Data Collection
Implementation



Data Analysis



Insights and Alerts

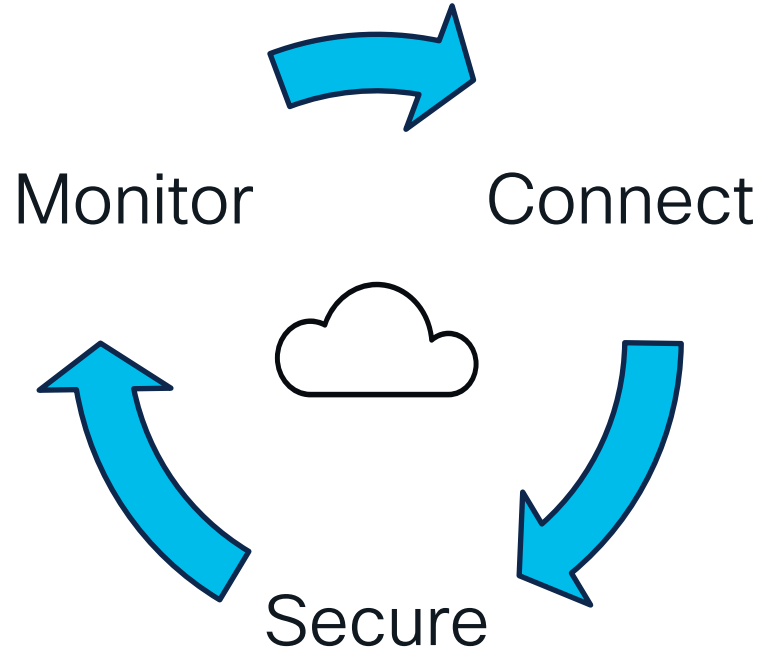
1.0 Platforms and Architecture	30%
2.0 Data Collection Implementation	30%
3.0 Data Analysis	20%
4.0 Insights and Alerts	20%

Cloud in your network

CISCO *Live!*

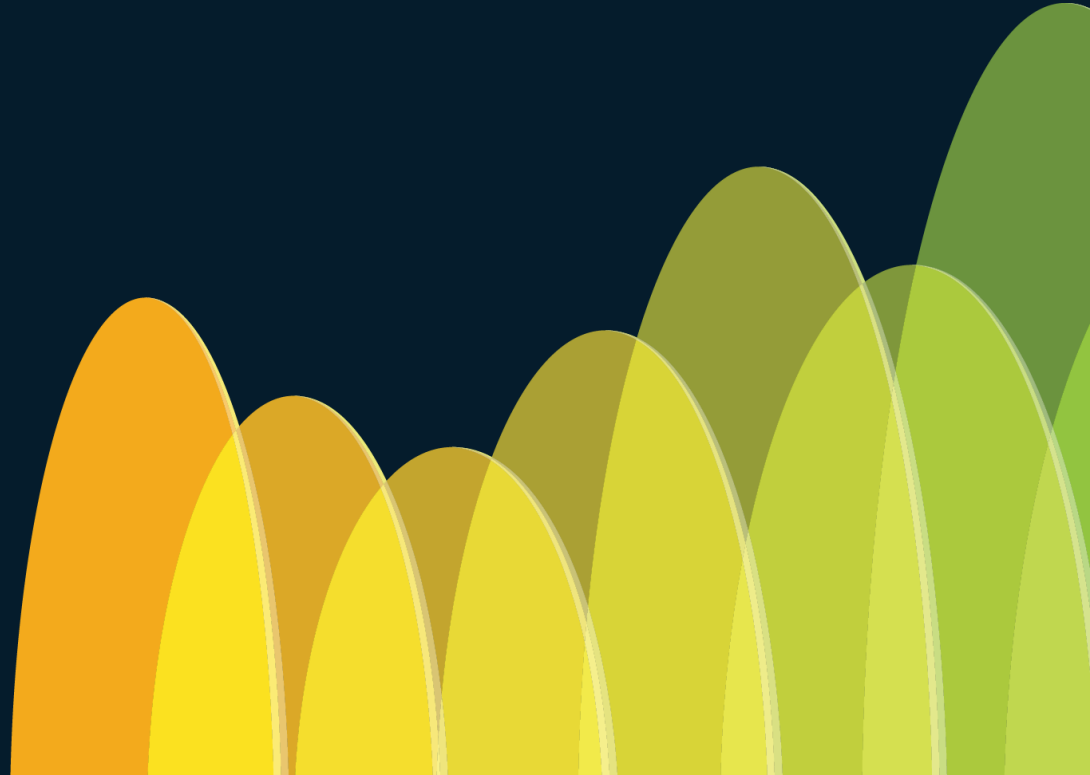


Cloud lifecycle

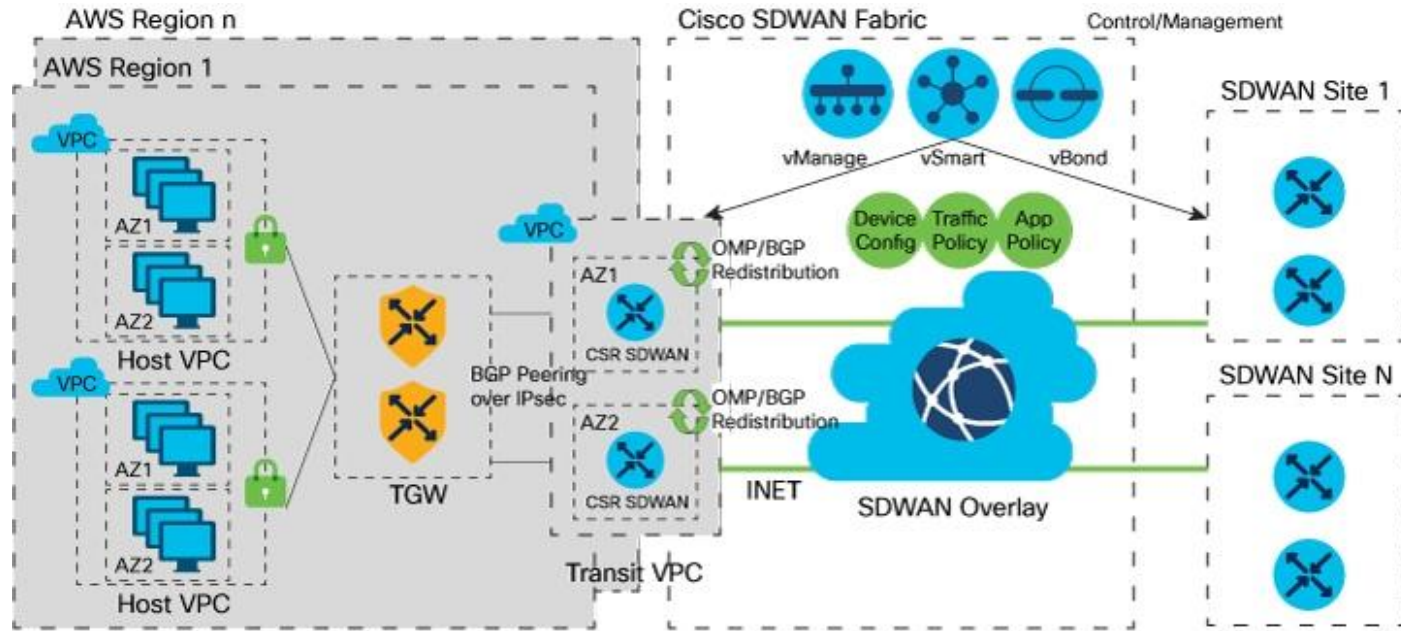


Connect

CISCO *Live!*



A network engineer must integrate Cisco SD-WAN with AWS.



520917

300-440 ENCC v1.0 Exam Topics

1.0 Architecture Models	15%	▼
2.0 Design	15%	▼
3.0 IPsec Cloud Connectivity	25%	▼
4.0 SD-WAN Cloud Connectivity	25%	▲
<ul style="list-style-type: none">• 4.1 Configure Cisco SD-WAN internet-based secure cloud connectivity for AWS, Azure, and Google Cloud• 4.2 Configure Cisco SD-WAN OnRamp to a SaaS cloud provider• 4.3 Configure Cisco SD-WAN policies (north/south and east/west)<ul style="list-style-type: none">• 4.3.a Security• 4.3.b Routing• 4.3.c Application		
5.0 Operation	20%	▼

What are the steps to accomplish the integration?

- Enable Cloud Global Setting.
- Select the Cloud provider.
- Choose the AWS Transit Gateway and CSR in Transit VPC.
- Select the software license approach.
- Chose the Instance Size.
- Enter the Subnet Pool and Cloud Gateway BGP ASN Offset.
- Pick the Intra Tag Communication and Default Route.
- Update the configuration.

Drag and drop the steps from the left to the right to configure Cisco SD-WAN with AWS.

Select the license approach and Instance size.

Enter the Subnet Pool and Cloud Gateway BGP ASN Offset.

Enable Cloud Global Setting and select the Cloud provider.

Pick the Intra Tag Communication and Default Route.

Choose the AWS Transit Gateway and CSR in Transit VPC.

Enable Cloud Global Setting and select the Cloud provider.

Choose the AWS Transit Gateway and CSR in Transit VPC.

Select the license approach and Instance size.

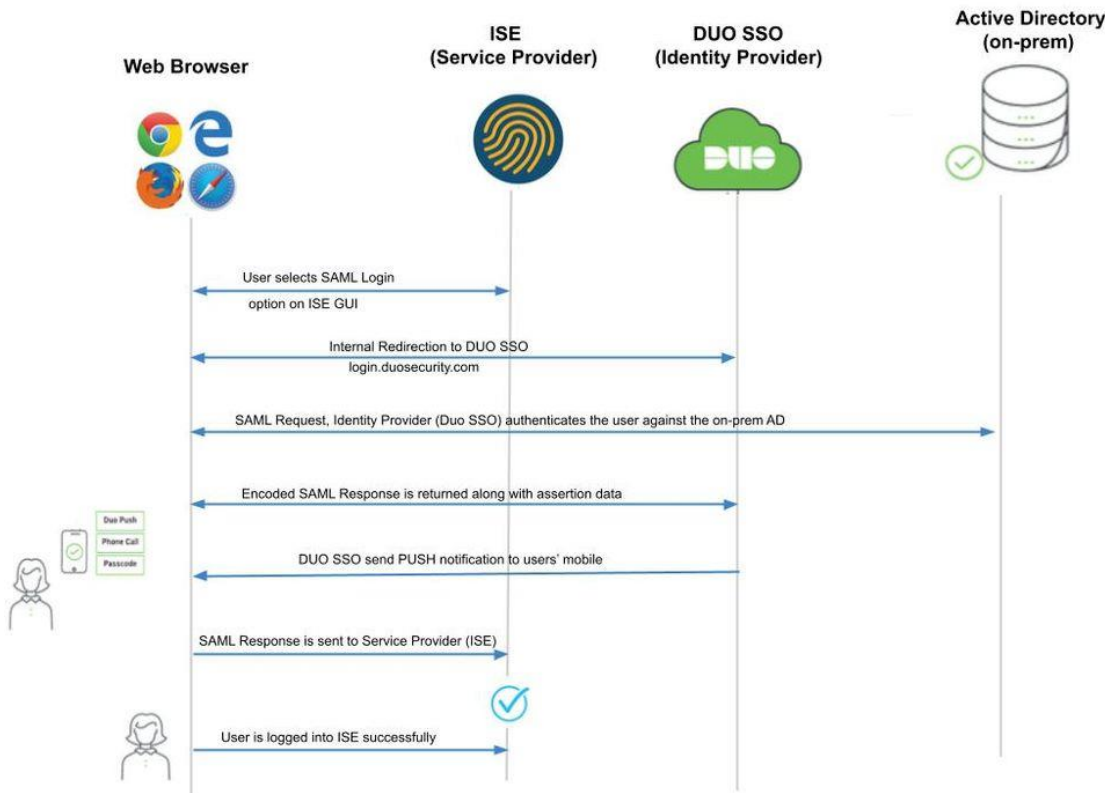
Enter the Subnet Pool and Cloud Gateway BGP ASN Offset.

Pick the Intra Tag Communication and Default Route.

Secure



A network engineer must configure Cisco ISE 3.1 SAML SSO integration with Cisco Duo SSO.



300-740 SCAZT v1.0 Exam Topics

1.0 Cloud Security Architecture	10%	▼
2.0 User and Device Security	20%	▲
<ul style="list-style-type: none">• 2.1 Implement user and device authentication via identity certificates• 2.2 Implement multifactor authentication for users and devices• 2.3 Implement endpoint posture policies for user access to resources• 2.4 Configure SAML/SSO and OIDC using an identity provider connection• 2.5 Configure user and device trust using SAML authentication for a mobile or web application		
3.0 Network and Cloud Security	20%	▼
4.0 Application and Data Security	25%	▼
5.0 Visibility and Assurance	15%	▼
6.0 Threat Response	10%	▼

Steps to accomplish the task:

- Configure Cisco ISE SP details in Duo Admin Panel for Generic SP:

Name	Description
Entity ID	http://CiscoISE/7dfc239-631e-439c-a3ab-f5e56429779d
Assertion Consumer Service (ACS) URL	https://10.x.x.x:8443/portal/SSOLoginResponse.action

Service Provider

Entity ID *

<http://CiscoISE/7dfc239-631e-439c-a3ab-f5e56429779d>

The unique identifier of the service provider.

Assertion Consumer Service
(ACS) URL *

<https://10.52.14.44:8443/portal/SSOLoginResponse.action>

SAML Response

NameID format *

urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified

The format that specifies how the NameID is sent to the service provider.

NameID attribute *

* <Username>

NameID is a SAML attribute that identifies the user. Enter in an IdP attribute or select one of Duo's preconfigured attributes that automatically chooses the NameID attribute based on the IdP. There are five preconfigured attributes: <Email Address>, <Username>, <First Name>, <Last Name> and <Display Name>.



- Dashboard
- Device Insight
- Policies
- Applications
- Single Sign-On
- Users
- Groups**
- Add Group

[Dashboard](#) > [Groups](#)

Groups

[Add Group](#)

[Export](#)

Name	Status	Users	Description
ISE Admin Group	Active	3	

Role attributes

Map Duo groups to different roles in this service provider. A Duo group can be mapped to multiple roles and each role can have multiple groups mapped to it. Optional. [Learn more about Duo groups.](#)

Attribute name

The name of the attribute which will carry the mapped roles.

Service Provider's Role

Duo groups



Settings

Type

Generic Service Provider - Single Sign-On

Name

Duo Push users will see this when approving transactions.

Downloads

Certificate

[Download certificate](#)

Expires: 01-19-2038

SAML Metadata

[Download XML](#)

[Identity Provider List](#) > Duo_SSO

SAML Identity Provider

General

Identity Provider Config.

Service Provider Info.

Groups

Attributes

Advanced Settings

Identity Provider Configuration

Import Identity Provider Config File 

Provider Id

A network engineer is configuring Cisco ISE SAML to authenticate users through Cisco Duo SSO.

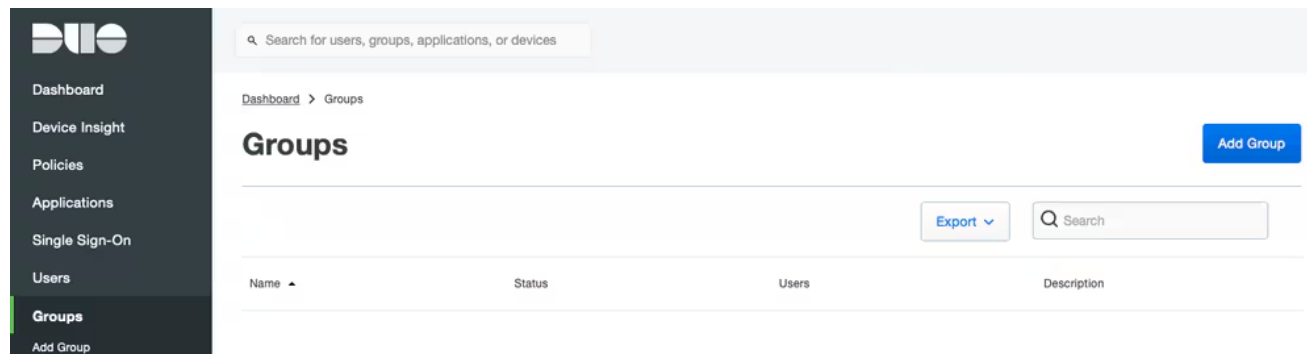
Which group must the engineer configure on Duo Admin Panel to accomplish the requirement?

A. ISE Admin

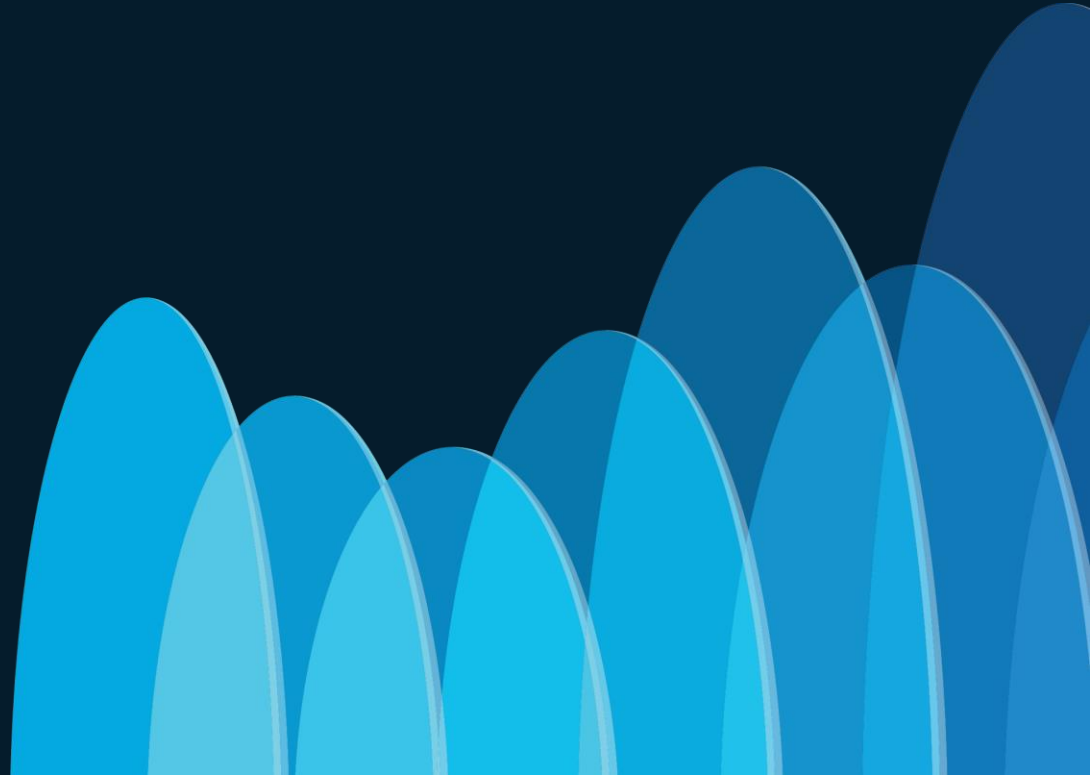
B. Identity Admin

C. MnT Admin

D. Elevated System Admin



Monitor



A company has connected its infrastructure with a cloud provider and secured access for users, devices and application. The engineer must monitor and diagnose possible issues.

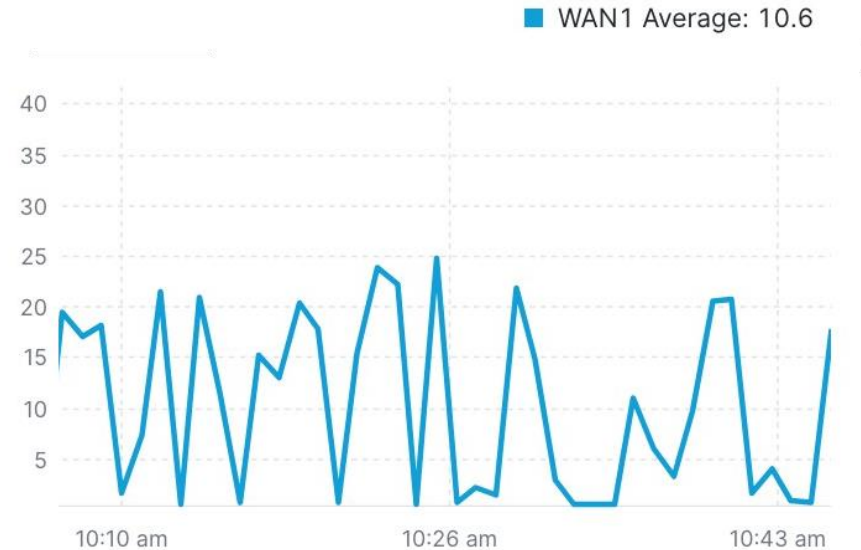


300-445 ENNA v1.0 Exam Topics

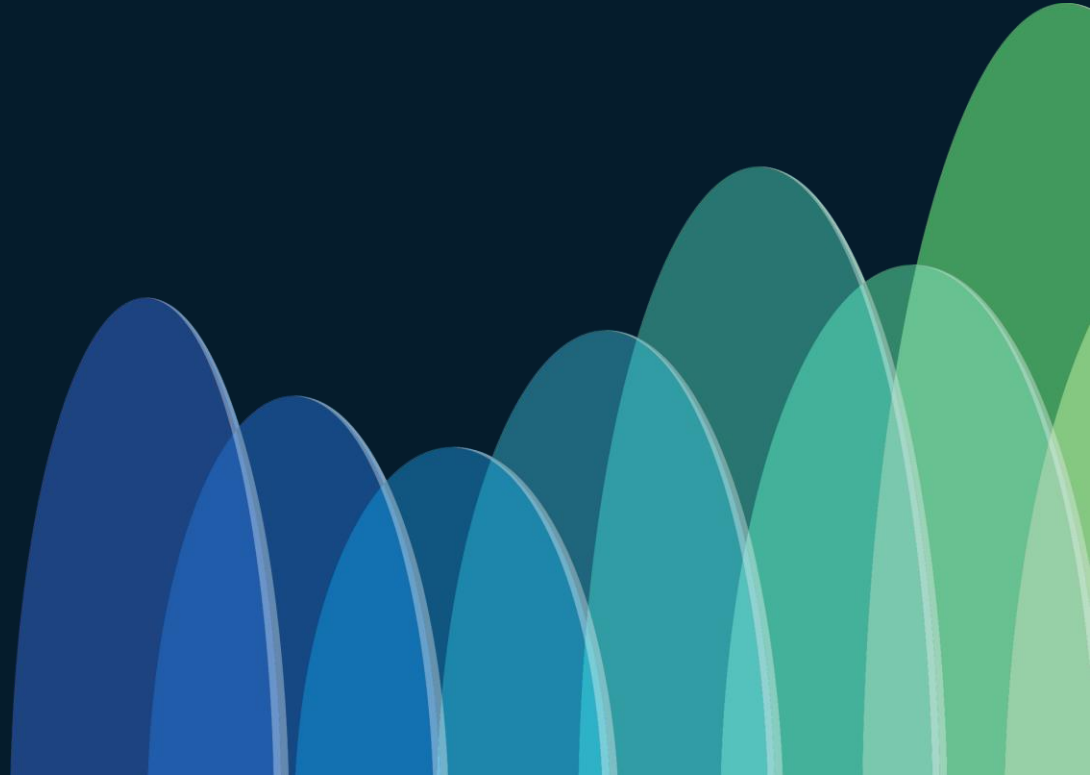
1.0 Platforms and Architecture	20%	▼
2.0 Data Collection Implementation	25%	▼
3.0 Data Analysis	30%	▲
<ul style="list-style-type: none">• 3.1 Diagnose network issues, such as packet loss, congestion, routing, and jitter using collected data• 3.2 Diagnose end-device network issues, such as issues with a default gateway, local network, DNS server, proxy, VPN gateway, wireless, and real-time streaming using collected data• 3.3 Diagnose web application performance issues using collected data such as browser waterfalls• 3.4 Identify security issues, such as DDoS attacks, DNS hijacking, BGP hijacking, and route leaking affecting network performance		
4.0 Insights and Alerts	25%	▼

A network engineer is receiving multiple complaints about poor experience during calls. The employees describe the issue as chopped voice when using Webex over Meraki wireless. What is the cause of the issue?

- A. Packet loss
- B. Routing
- C. Network overload
- D. Jitter



What to expect!



Exam Blueprint

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Study Resources

[Certifications](#) / [CCNP Enterprise](#) / 300-440 ENCC Exam Topics

300-440 ENCC v1.0 Exam Topics

Exam Description

To earn your CCNP Enterprise certification you must pass the **350-401 ENCOR** exam and an eligible concentration exam of your choice, such as **300-440 ENCC**. You will be tested on your knowledge of:



Architecture Models



Design



IPsec Cloud Connectivity



SD-WAN Cloud Connectivity



Operation

Expand each item below to view related exam topics.

1.0 Architecture Models	15%	▾
2.0 Design	15%	▾
3.0 IPsec Cloud Connectivity	25%	▾
4.0 SD-WAN Cloud Connectivity	25%	▾
5.0 Operation	20%	▾

Deciphering the Blueprint

Cloud Connectivity (Exam 300-440)

Domain 15% 1.0 Architecture Models

Task

1.1 Describe internet-based connectivity to cloud providers (AWS, Azure, and Google Cloud)

Subtask

1.1.a Native IPsec

1.1.b Cisco SD-WAN Internet connectivity

1.2 Describe private connectivity to cloud providers (AWS, Azure, and Google Cloud)

1.2.a MPLS provider

1.2.b Colocation provider

1.2.c SDCI regional cross-connect

1.3 Describe connectivity to SaaS cloud providers (AWS, Azure, and Google Cloud)

Blueprint Verbs

Describe/Explain/Understand

Compare/Differentiate

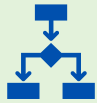
Configure/Interpret/Implement/Recommend

Diagnose/Troubleshoot/Determine/Analyze/Validate

Depth of Knowledge



Types of questions



Multiple choice

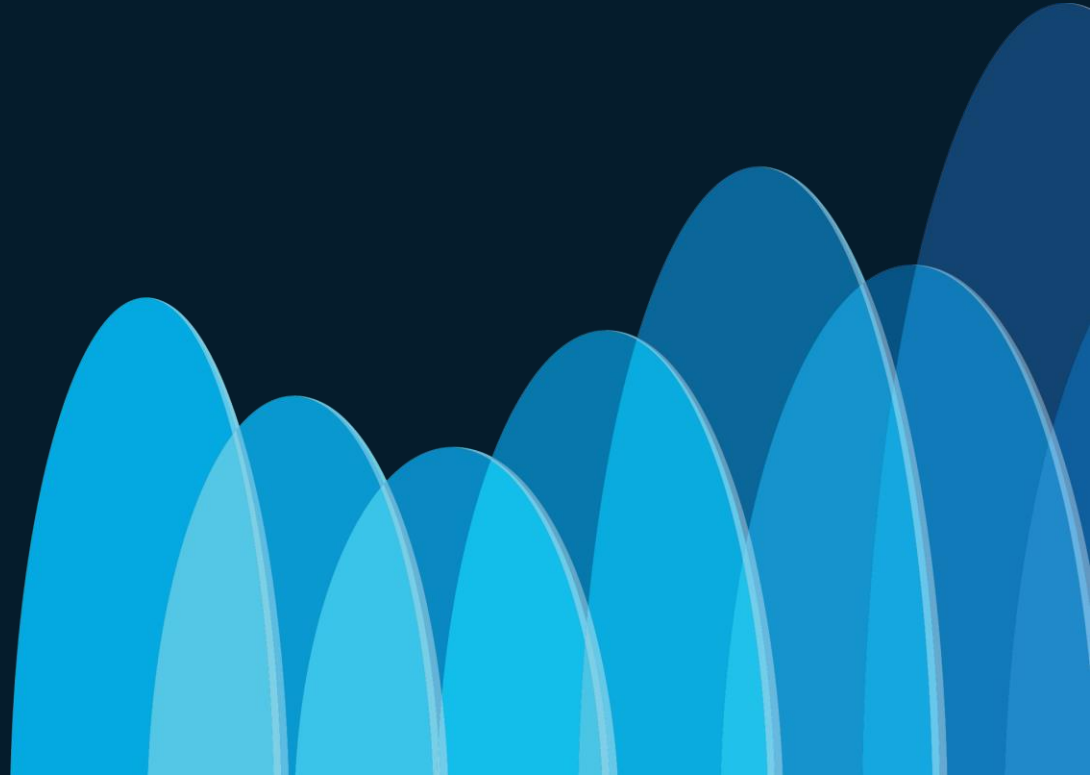


Drag and drop



Performance-based Lab question

Sample Questions



Task

Describe Question

(ENNA 300-445)

1.4 Describe ThousandEyes
WAN Insights

What is a functionality of ThousandEyes
WAN Insights?

- A. tune policies and paths
- B. set user passwords
- C. generate device certificates
- D. configure port channels on IOS XE

Task

Describe Question

(SCAZT 300-740)

1.4 Describe the SAFE architectural framework

Which architecture is utilized to defend against threats?

- A. Cisco SAFE
- B. ZTA
- C. SASE
- D. MITRE

Task

Recommend Question

(ENCC 300-440)

- 2.1 Recommend the connectivity model to provide high availability, resiliency, SLAs, and reliability based on and technical requirements

A company has multiple branch offices across different geographic locations and a centralized data center. The company plans to migrate its critical business applications to the public cloud infrastructure hosted in AWS. The company requires high availability, redundancy, and low latency for its business applications. Which connectivity model meets the requirements?

- A. Direct Connect with dedicated connections
- B. site-to-site VPN with AWS VPN gateway
- C. Express Route
- D. hybrid connectivity with Cisco SD-WAN

Task

Configure Question

(ENCC 300-440)

4.2 Configure Cisco SD-WAN OnRamp to a SaaS cloud provider

Select Application Aware Policy Routing

Select Configure

Select Cloud OnRamp for SaaS

Modify the Webex server information

An engineer must use Cisco vManage to update the Cisco Webex server information in Cloud OnRamp for SaaS. Drag and drop the steps from the left into the order on the right to complete the configuration.

Step 1

Step 2

Step 3

Step 4

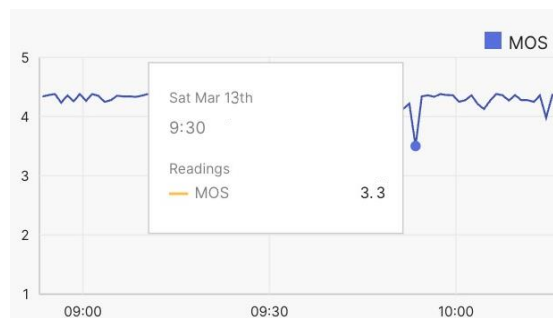
Task



Diagnose Question

(ENNA 300-445)

3.1 Diagnose network issues, such as packet loss, congestion, routing, and jitter using collected data



The C-level of a company reported chopped audio during a board meeting. During investigation, an engineer exported the diagram from ThousandEyes. What is the cause of the issue?

- A. Power outage
- B. Congestion
- C. Routing
- D. Jitter

Task



Diagnose Question

(ENCC 300-440)

5.1 Diagnose IPsec
internet-based
secure cloud
connectivity between
an on-premises
Cisco IOS XE router
to a native AWS,
Azure, and Google
Cloud endpoint

```
1 daemon.info: May 13 10:12:22 vedge01 charon: 07[IKE] failed to establish CHILD_SA, keeping IKE_SA
2 daemon.info: May 13 10:12:22 vedge01 charon: 07[IKE] no acceptable proposal found
3 daemon.info: May 13 10:12:22 vedge01 charon: 07[CFG] configured proposals:
4 ESP:AES_CBC_256/HMAC_SHA1_96/MODP_4096/NO_EXT_SEQ
5 daemon.info: May 13 10:12:22 vedge01 charon: 07[CFG] received proposals: ESP:AES_GCM_16_256/NO_EXT_SEQ,
6 ESP:AES_CBC_256/HMAC_SHA1_96/NO_EXT_SEQ
7 daemon.info: May 13 10:12:22 vedge01 charon: 07[ENC] parsed CREATE_CHILD_SA request 559 [ SA No Tsi TSr ]
8 daemon.info: May 13 10:12:22 vedge01 charon: 07[NET] received packet: from 10.10.1.1[4500] to 10.10.2[4500] (396 bytes)
9 daemon.info: May 13 10:12:21 vedge01 charon: 08[NET] sending packet: from 10.10.2[4500] to 10.10.1.1[4500] (76 bytes)
10 daemon.info: May 13 10:12:21 vedge01 charon: 08[ENC] generating INFORMATIONAL response 558 [ ]
11 daemon.info: May 13 10:12:21 vedge01 charon: 08[ENC] parsed INFORMATIONAL request 558 [ ]
12 daemon.info: May 13 10:12:21 vedge01 charon: 08[NET] received packet: from 10.10.1.1[4500] to 10.10.2[4500] (76 bytes)
```

An engineer is troubleshooting an IPsec connectivity issue between an on-premises data center and a public cloud provider. What is occurring?

- A. mismatched organization name
- B. mismatched Perfect Forward Secrecy
- C. certificate revocation failure
- D. certificate verification failure

Preparing for the new exams

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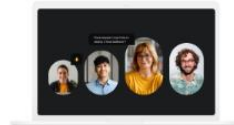
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CCNP Enterprise Track

Designing and Implementing Cloud Connectivity
(ENCC 300-440) 1.0



CCNP Security Track

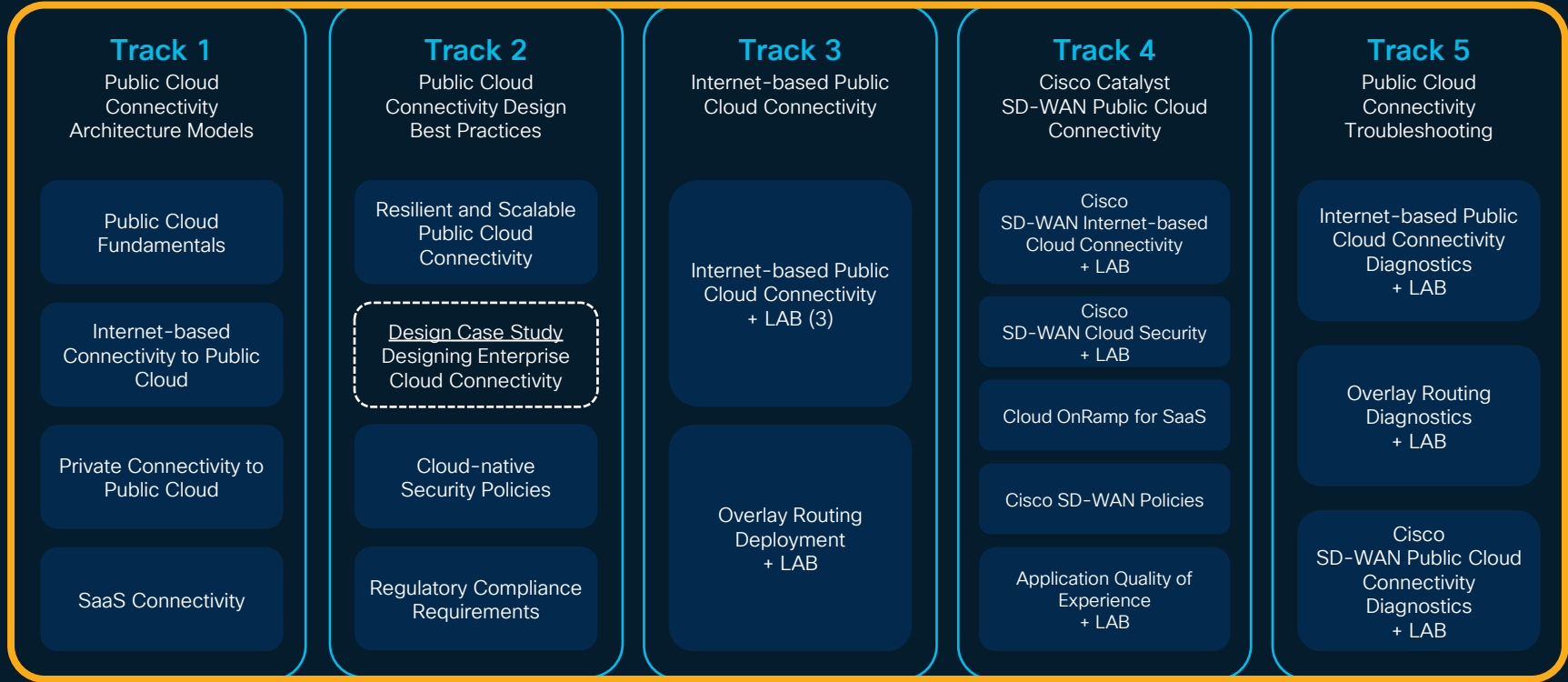
Designing and Implementing Secure Cloud
Access for Users and Endpoints
(SCAZT 300-740) 1.0



CCNP Enterprise Track

Designing and Implementing Enterprise
Network Assurance
(ENNA 300-445) 1.0

ENCC Cisco U. Learning Path & ILT



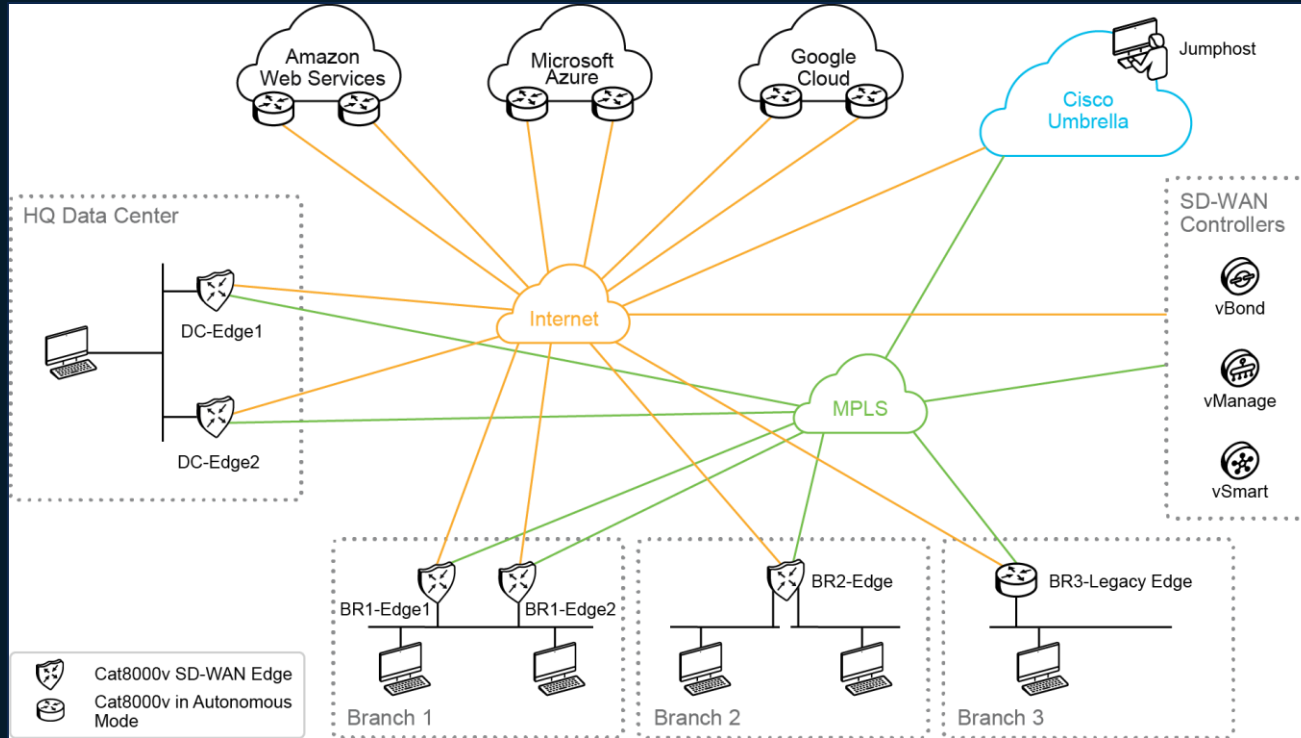
SCAZT Cisco U. Learning Path & ILT



ENNA Cisco U. Learning Path & ILT



ENCC Hands-On Lab Topology



- Implement IPsec connectivity to public cloud gateways and cloud-hosted Cisco IOS XE routers
- Implement overlay routing
- Implement Cloud OnRamp for Multicloud
- Implement Cisco Umbrella Cloud Security
- Implement Cloud OnRamp for SaaS
- Diagnose underlay connectivity
- Diagnose overlay routing
- Diagnose Cloud OnRamp
- + Design Case Study

CCNP Enterprise Certification and Training

Achieving CCNP Enterprise certification proves your skills with enterprise networking solutions. To earn CCNP Enterprise certification, you pass two exams: one that covers core enterprise technologies and one concentration exam of your choice, so you can customize your certification to your technical area of focus. Candidates must pass the required exams to earn the certification. Having an active Specialist certification does not fulfill the exam requirements for Professional- and Expert-level certifications.

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Exam

350-401 ENCOR: Implementing Cisco Enterprise Network Core Technologies

Implementing Cisco Enterprise Network Core Technologies v1.1 (ENCOR 350-401) is a 120-minute exam associated with the CCNP and CCIE Enterprise Certifications. This exam tests a candidate's knowledge of implementing core enterprise network technologies, including dual stack (IPv4 and IPv6) architecture, virtualization, infrastructure, network assurance, security, and automation. The course Implementing Cisco Enterprise Network Core Technologies helps candidates to prepare for this exam.

[Exam Topics](#)[Study Material](#)[E-Learning](#)

Concentration exams (choose one):

300-410 ENARSI: Implementing Cisco Enterprise Advanced Routing and Services

Implementing Cisco Enterprise Advanced Routing and Services v1.1 (ENARSI 300410) is a 90-minute exam associated with the CCNP Enterprise Certification. This exam certifies a candidate's knowledge for implementation and troubleshooting of advanced

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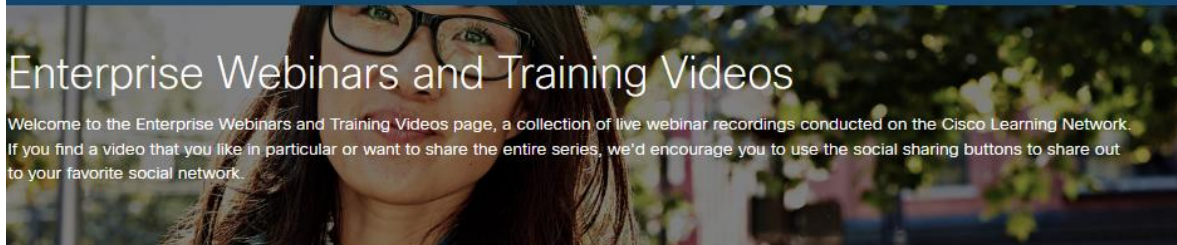
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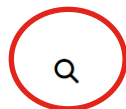
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Networking Sandbox Highlights

Version 2.0



Cisco Modeling Labs Enterprise

Start your Network DevOps journey

RESERVATION SANDBOX

Cisco Modeling Labs Enterprise

Cisco Modeling Labs is a tool for building virtual network simulations (or labs) for you to test out new topologies, protocols, and config changes; automate network tests via CI/CD pipeline integration; and learn new things about the cool world of networking. This sandbox provides access to a Cisco Modeling Labs system that can be used to explore the capabilities of the newest release of Cisco Modeling Labs Personal and Enterprise.



Multi Domain

RESERVATION SANDBOX

Multi Domain

This Sandbox was designed for developers to build applications and operational tools to manage the diverse set of platforms deployed across an enterprise. This Sandbox provides developers access to multiple domains and platforms, including Cisco HyperFlex, Cisco SD-WAN, Cisco Action Orchestrator, as well as open source tools like NetBox and GitLab.

Version 19.2



Cisco SD-WAN

Cloud-delivered overlay
WAN architecture

RESERVATION SANDBOX

Cisco SD-WAN

This sandbox consists a complete virtual SD-WAN environment and all of its components, that developers can utilize to develop, debug and test their sample SD-WAN applications. The developer can also interact with the SD-WAN API calls using a variety of REST clients such as POSTMAN.

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