



You make **possible**



DevNet Certifications: Bringing Software Practices and Software Skills to Networking

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DEVNET-4099

CISCO *Live!*

Barcelona | January 27-31, 2020



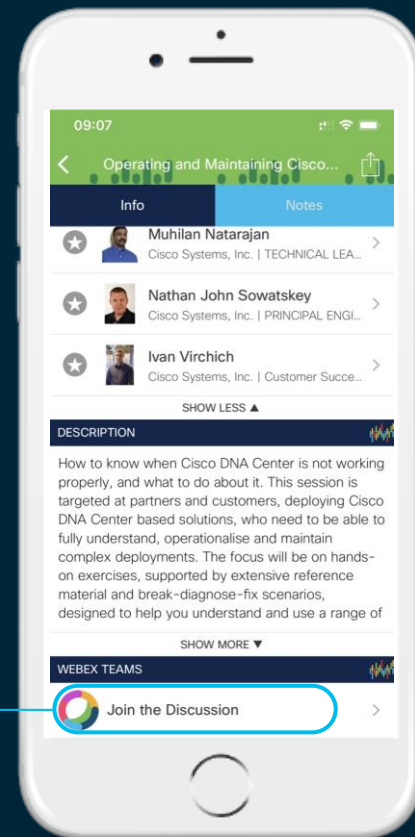
Cisco Webex Teams

Questions?

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

How

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

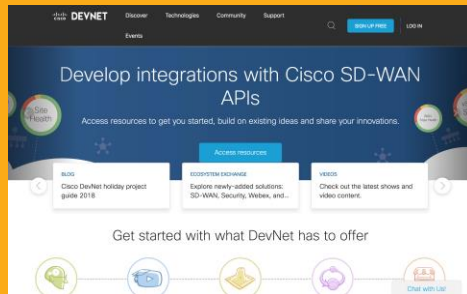


Agenda

- Introduction
- Overview of DevNet
- Review of the DevNet Certification Program
- In-depth Review of the Updates to the Cisco Certification Portfolio to Take Effect Feb. 24, 2020
- Learning Lab Training Plans
- Upcoming Training Offers
- Next Steps to Get Ready
- Conclusion

DevNet is...

A website



The DevNet website, **developer.cisco.com**, is free-to-use and provides learning & sandbox environments for those trying to learn coding and testing apps

A community



DevNet is now a community of **500,000+ developers**, leveraging code and sharing code to build better solutions.

A place to start



DevNet helps developers and IT professionals who want to **write applications and develop integrations** with Cisco products, platforms, and APIs.

The single resource for everything “developer” at Cisco.

cisco *Live!*

DevNet Tools and Resources

developer.cisco.com

The screenshot shows the DevNet website homepage. At the top is a dark navigation bar with the DevNet logo and links for Discover, Technologies, Community, Support, Events, and New Announcement. On the right of the navigation bar are search and user profile icons. Below the navigation bar is a large banner with a blue and purple abstract background. The banner features the text "See what's next in networking" and a sub-headline about a virtual event on October 24, 2019. A blue button labeled "Register for virtual event" is centered in the banner. Below the banner are three white boxes with rounded corners, each containing a title and a description. The first box is titled "USE CASE - NETWORKING" and describes the "Automation Provisioning Guest Shell". The second box is titled "BLOG" and describes "Automating Your Network Operations: Focus on Outcomes". The third box is titled "USE CASE - COLLABORATION" and describes "Manage emergency response workflow with location and Cisco WebEx Teams". Below these boxes is a section titled "Get started with what DevNet has to offer" which contains a horizontal sequence of six icons connected by dashed lines. The icons represent: Start Now (a rocket), Learning Tracks (a green circle with a play button), Video course (a blue circle with a play button), Sandbox (a yellow circle with a play button), Code Exchange (a purple circle with a play button), and Ecosystem Exchange (an orange circle with a play button).

DEVNET

Discover Technologies Community Support Events New Announcement

See what's next in networking

On October 24, 2019, get futurists' insights on industry-shaping trends, technology transformation, and the impact of artificial intelligence on the workforce.

Register for virtual event

USE CASE - NETWORKING

Automation Provisioning Guest Shell

BLOG

Automating Your Network Operations:
Focus on Outcomes

USE CASE - COLLABORATION

Manage emergency response workflow
with location and Cisco WebEx Teams

Get started with what DevNet has to offer

Start Now Learning Tracks Video course Sandbox Code Exchange Ecosystem Exchange

Review of the DevNet Certifications and the changes to the larger Cisco Certification Portfolio

Introducing Cisco's expanded certification suite

Cisco Certification Program offerings launching Feb. 24, 2020

Associate Level

Specialist Level

Professional Level

Expert Level

Engineering



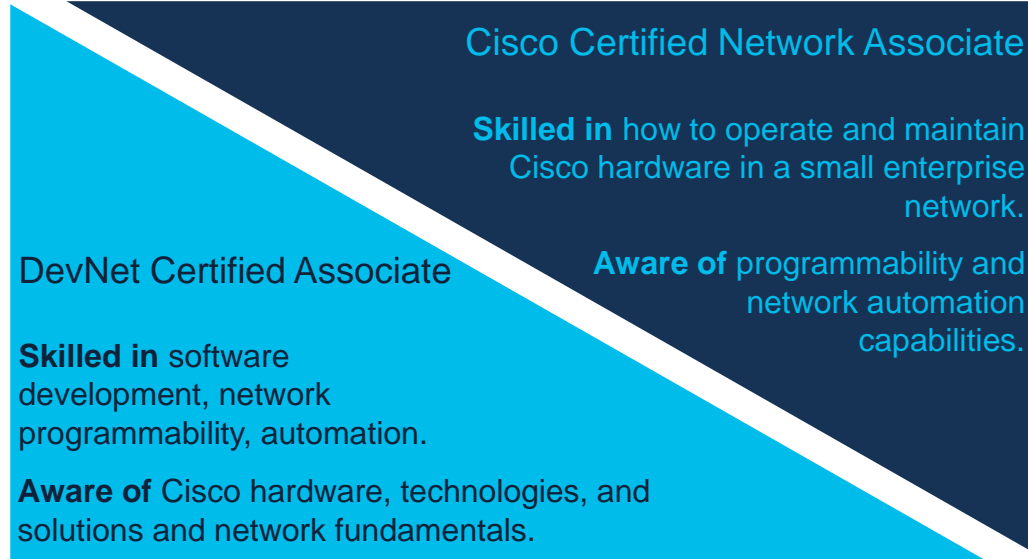
Software



Future
Offering

Building teams with complementary skills

DevNet Certified Associate and the Cisco Certified Network Associate



Complementary balance and role alignment

How our program is evolving

Associate Level



One Exam

Specialist Level



One Exam:

Every written proctored exam (except CCNA) = Cisco Certified Specialist



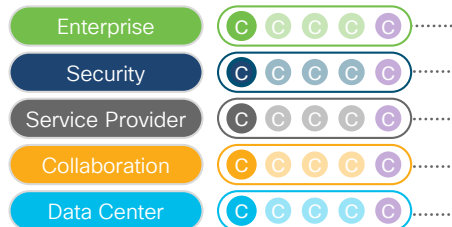
Professional Level

Two Exams:

1 concentration exam and 1 technology core in any order, but from the same track

Technology Core Exam

Concentration Exam

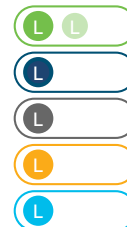


Automation and programmability cross functional course/exam option focused within technology track for CCNP certification

Expert Level



Lab Exam



1 technology core and 1 CCIE lab in same track



One Exam



One Exam:

Every DevNet written, proctored exam (except Cisco Certified DevNet Associate) = Cisco Certified DevNet Specialist



Two Exams:

1 DevNet core and 1 concentration exam in any order, but from the DevNet track

Technology Core exam

Concentration exam



Future offering

Cisco DevNet Track: Currently Composed of 10 exams



Entry: **Associate Level**

Entry exam



Next Step: **Professional Level**

DevNet concentration
**Options: 1 technology core & 1 concentration exam
in any order, but from the same DevNet track**

DevNet Technology Core Exam

- C** **ENTERPRISE NETWORKING:** Automating and Programming Cisco Enterprise Solutions
- C** **SECURITY:** Automating and Programming Cisco Security Solutions
- C** **SERVICE PROVIDER:** Automating and Programming Cisco Service Provider Solutions
- C** **COLLABORATION:** Automating and Programming Cisco Collaboration Solutions
- C** **DATA CENTER:** Automating and Programming Cisco Data Center Solutions
- C** **DEVOPS:** Implementing DevOps Solutions and Practices using Cisco Platforms
- C** **IOT:** Developing Solutions using Cisco IoT & Edge Platforms
- C** **WEBEX:** Developing Applications for Cisco Webex and Webex Devices



Future Goal: **Expert**

DevNet lab
**Options: 1 technology core &
1 lab in the same track**

L TBD

L TBD

L TBD

E DevNet Associate Exam

DevNet Certification help build skills for Automation and Digital Transformation



DevNet
Associate



DevNet
Professional



DevNet Specialist
Enterprise Automation



DevNet Specialist
Data Center Automation



DevNet Specialist
Service Provider Automation



DevNet Specialist
Security Automation



DevNet Specialist
Collaboration Automation



DevNet Specialist
IoT



DevNet Specialist
WebEx



DevNet Specialist
DevOps

Training for new job roles

DevSecOps Engineer

Professional certification



CCNP Security

Technology concentrations



Cisco Specialist: Security

Automate security operations



Cisco DevNet Specialist: DevOps

Securely deploy applications



Cisco DevNet Specialist: Webex

Build chat bots for alerting and monitoring

Certification paths

Professional and Specialist certifications



Enterprise	Security	Service Provider	Collaboration	Data Center	DevNet
<ul style="list-style-type: none"> Implementing and Operating Cisco Enterprise Network Core Technologies Implementing Cisco Enterprise Advanced Routing and Services Designing Cisco Enterprise Wireless Networks Implementing Cisco Enterprise Wireless Networks Designing Cisco Enterprise Networks Implementing Cisco SD-WAN Solutions Automating and Programming Cisco Enterprise Solutions 	<ul style="list-style-type: none"> Implementing and Operating Cisco Security Core Technologies Securing Networks with Cisco Firepower Implementing Secure Solutions with Virtual Private Networks Securing Email with Cisco Security Appliances Securing the Web with Cisco Web Security Appliance Implementing and Configuring Cisco Identity Services Engine Automating and Programming Cisco Security Solutions 	<ul style="list-style-type: none"> Implementing and Operating Cisco Service Provider Network Core Technologies Implementing Cisco Service Provider Advanced Routing Solutions Implementing Cisco Service Provider VPN Services Automating and Programming Cisco Service Provider Solutions 	<ul style="list-style-type: none"> Implementing and Operating Cisco Collaboration Core Technologies Implementing Cisco Collaboration Applications Implementing Cisco Advanced Call Control and Mobility Services Implementing Cisco Collaboration Cloud and Edge Solutions Automating and Programming Cisco Collaboration Solutions 	<ul style="list-style-type: none"> Implementing and Operating Cisco Data Center Core Technologies Implementing Cisco Storage Area Networking Implementing Cisco Application Centric Infrastructure Designing Cisco Data Center Infrastructure Troubleshooting Cisco Data Center Infrastructure Automating and Programming Cisco Data Center Solutions 	<ul style="list-style-type: none"> Developing Applications using Cisco Core Platforms & APIs Implementing DevOps Solutions and Practices using Cisco Platforms Developing Solutions using Cisco IoT & Edge Platforms Developing Applications for Cisco Webex and Webex Devices Automating and Programming Cisco Enterprise Solutions Automating and Programming Cisco Security Solutions Automating and Programming Cisco Service Provider Solutions Automating and Programming Cisco Collaboration Solutions Automating and Programming Cisco Data Center Solutions

Updates to Recertification and Continuing Education

How our recertification policies are changing

Today

- Different recertification period depending on certification type
- Continuing education for CCIEs only
- Credits required for recertification:
 - CCIE: 100

February 24, 2020

- 3-year recertification period for all certified individuals, beginning at the recertifying event date
- Continuing education for all levels of certification
- Credits required for recertification:
 - CCNA: 30
 - Specialist: 40
 - CCNP: 80
 - CCIE: 120

How our CE policies are changing

Today

- CCIE CE credit requirement: 100
- Cisco Live activities: 70 points cap
- Item writing activities: 20 points cap
- Administrative Fee: \$300

February 24, 2020

- CCIE CE credit requirement: 120
- Cisco Live activities: No points cap
- Item writing activities: No points cap
- Administrative Fee: \$0

The following recertification requirements will be implemented on **February 24, 2020**:

Certification level	Duration	Examination only	Examination and Continuing Education	Continuing Education only
Associate Recertification	3 years	<ul style="list-style-type: none"> • Pass any one Associate exam • Pass any one professional concentration exam • Pass one technology core exam • Pass one CCIE lab exam 		Earn 30 CE credits
Specialist Certification	3 years	<ul style="list-style-type: none"> • Pass any one professional concentration exam • Pass one technology core exam • Pass one CCIE lab exam 		Earn 40 CE credits
Professional Recertification	3 years	<ul style="list-style-type: none"> • Pass one technology core exam • Pass any two professional concentration exams • Pass one CCIE lab exam 	<ul style="list-style-type: none"> • Pass any one professional concentration exam and earn 40 CE credits 	Earn 80 CE credits
CCIE Recertification	3 years	<ul style="list-style-type: none"> • Pass any one expert-level certification exam • Pass any one CCIE lab exam • Pass any three professional concentration exams • Pass one technology core exam and pass any one professional concentration exam. (This is also a CCNP certification if done in the same track.) 	<ul style="list-style-type: none"> • Pass one technology core exam and earn 40 CE credits • Pass any two professional concentration exams and earn 40 CE credits • Pass any one professional concentration exam and earn 80 CE credits 	Earn 120 CE credits

Next Steps

Find more information on DevNet, CLN, Cisco.com

Find learning lab and sandbox offerings to start learning journey

DevNet Associate Exam v1.0 (200-901)

DevNet Associate Exam v1.0 (DEVASC 200-901) is a 120-minute exam associated with the DevNet Associate - Developer Certification. This exam tests a candidate's knowledge of at the associate level in software development and design, understanding and using APIs, application deployment and security, and infrastructure and automation on Cisco platforms. The course, Developing Applications and Automating Workflows using Cisco Core Platforms, helps candidates to prepare for this exam.

[Sign up for updates](#)

Exam overview

15%

1.0 Software Development and Design

Exam Topics

- 1.1 Compare data formats (XML, JSON, YAML)
- 1.2 Describe parsing of common data format (XML, JSON, YAML) to Python data structures
- 1.3 Describe the concepts of test-driven development
- 1.5 Explain the benefits of organizing code into methods/ functions, classes,
- 1.5 Explain the benefits of organizing code into methods/ functions, classes, and modules
- 1.6 Identify the advantages of common design patterns (MVC and Observer)
- 1.7 Explain the advantages of version control
- 1.8 Utilize common version control operations with Git:
 - 1.8.a Clone
 - 1.8.b Add/remove
 - 1.8.c Commit

Study Material

These resources are meant to supplement your learning experience and exam preparation. They are NOT designed to serve as a complete self-study program, but intended only as a suggested starting point. Login to access these materials.

- [Setting up your Linux \(Ubuntu\) workstation as a development environment](#)
- [Setting up your Windows workstation as a development environment](#)
- [Setting up your macOS workstation as a development environment](#)
- [What is a Development Environment and why do you need one?](#)
- [A brief introduction to Git](#)
- [Intro to Python Part 1](#)
- [Intro to Python Part 2](#)
- [Introduction to CI/CD](#)
- [Coding 202: Parsing JSON using Python](#)
- [Introduction to XML](#)
- [Introduction to the Guest Shell](#)

[Chat with Us!](#)

developer.cisco.com/certification

cisco.com/nextlevel

Resources at Cisco.com include our new Migration Tool

Planning for the new CCNP Data Center certification

On February 24, 2020, new exams for CCNP Data Center will go live.

If you have started working toward the current CCNP Data Center certification, keep going. In the new program, you'll receive credit for work you've completed in the current certification.

Use this tool to plan your exams before February 24.

If you pass these exams by
February 24:

☒ DCII (300-165)

☒ DCUCI (300-175)

☐ DCVAI (300-170)

☐ DCID (300-160)

☐ DCIT (300-180)

Then after February 24:

You will receive:

- **Cisco Certified Specialist - Data Center Core**

And to earn the new CCNP Data Center certification, you will need to take one of these concentration exams:

- **300-610 DCID**
- **300-615 DCIT**
- **300-620 DCACI**
- **300-625 DCSAN**
- **300-635 DCAUTO**

Your Next Steps

3 things you can do today to start getting ready

1

Register with DevNet
at
[developer.cisco.com/
certification](https://developer.cisco.com/certification)

2

Review the Exam
Topics and learn
what skills you will
need to prepare for
certification

3

Find the DevNet
learning labs, videos
and sandboxes that
align to your learning
goals

All new exams available February 24, 2020

Questions?

Complete your online session survey



- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (starting on Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Content Catalog on ciscolive.com/emea.

Cisco Live sessions will be available for viewing on demand after the event at ciscolive.com.

Continue your education



Demos in the
Cisco Showcase



Walk-In Labs



Meet the Engineer
1:1 meetings



Related sessions



Thank you





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