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Getting your CCNP Data Center Certification

Straight from the Source

Lukasz Rola, CCNP Data Center Exam Program Manager

BRKCRT-2012a

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How

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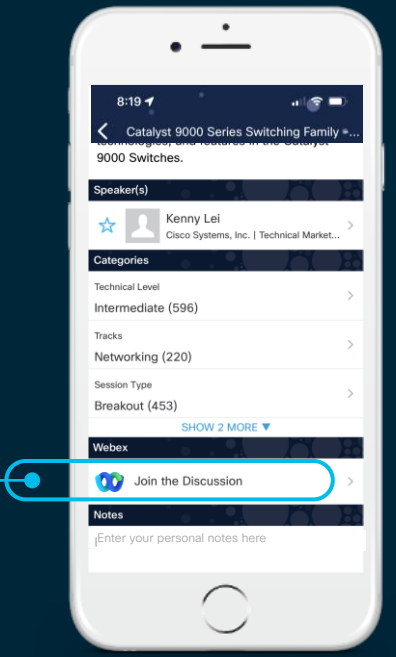

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Agenda

- Overview of CCNP Data Center track
- Exam blueprints & domains
- How to prepare for CCNP Data Center
- Training resources
- Q&A

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Cisco certifications are:

Applicable to real life situations

Appropriately difficult

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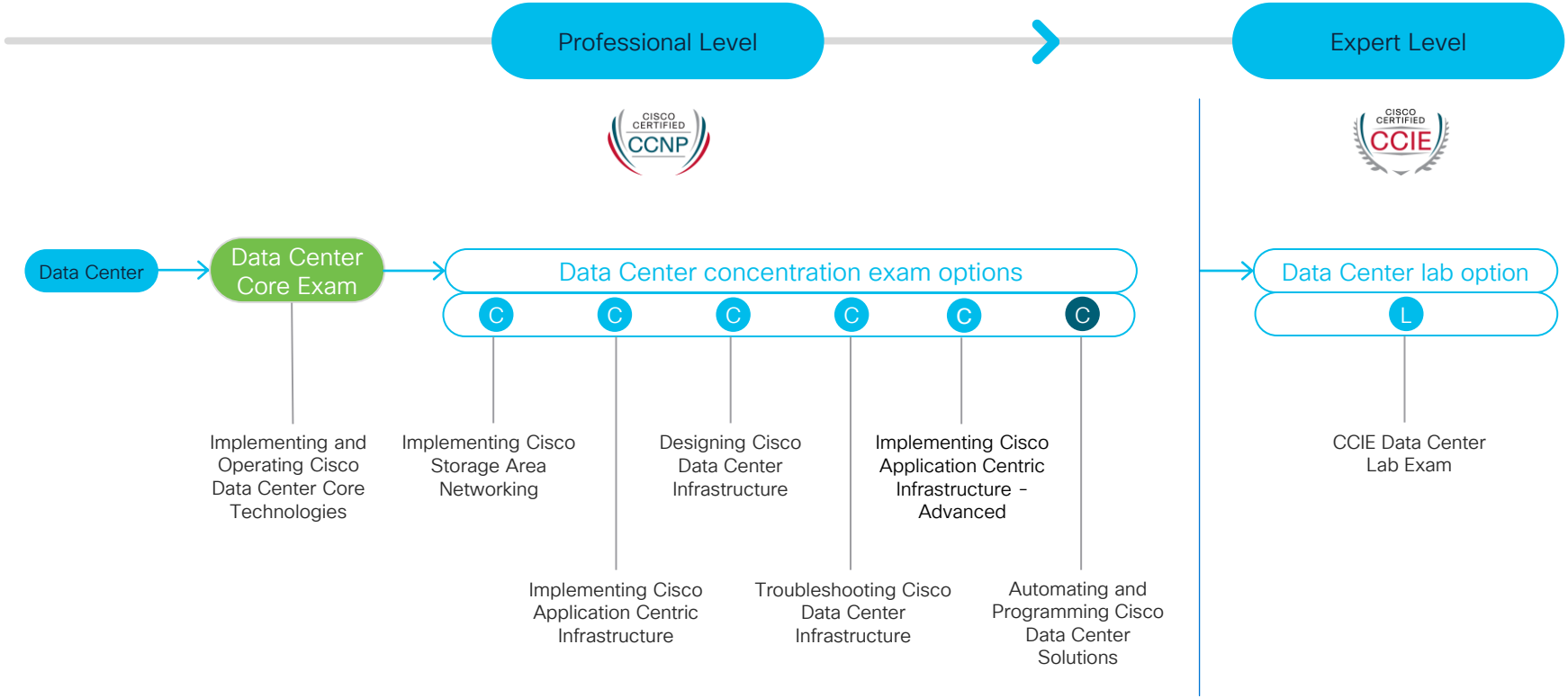
CCNP – Data Center certification track



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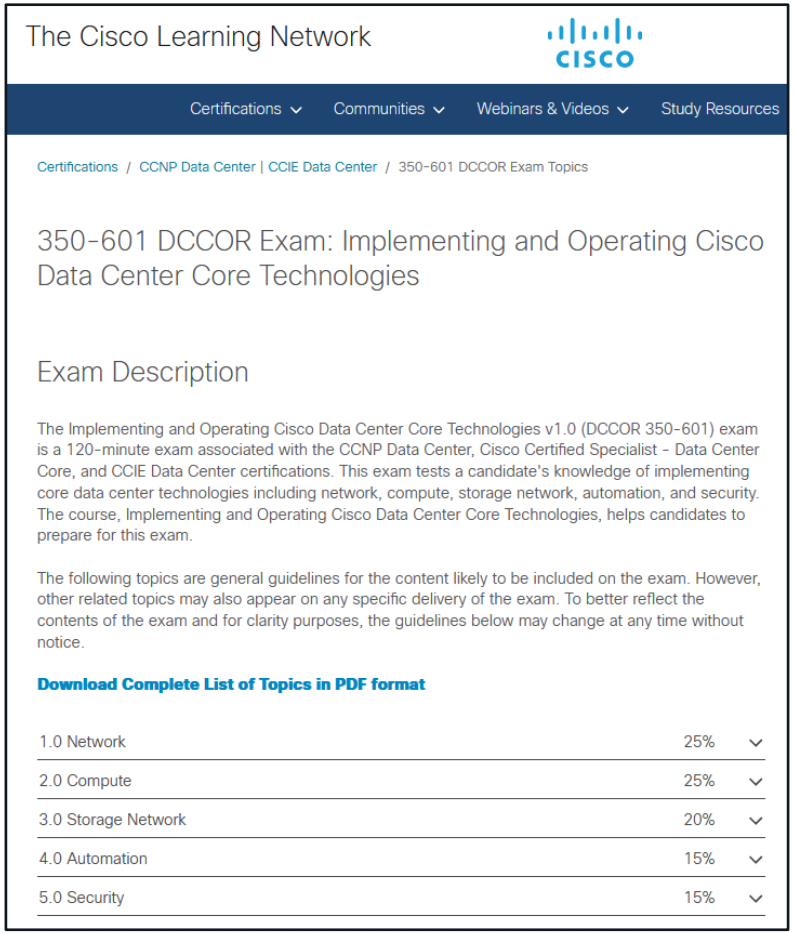
Preparing for your exams

Exam Blueprint

https://learningnetwork.cisco.com



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Deciphering the Blueprint:

350-601 DCCOR Exam:
Implementing and Operating Cisco Data Center Core Technologies

Task Verbs

1.0 Network 25%

1.1 Apply routing protocols
- 1.1.a OSPFv2, OSPFv3
- 1.1.b MP-BGP
- 1.1.c PIM
- 1.1.d FHRP

1.2 Apply switching protocols such as RSTP+, LACP and vPC
1.3 Apply overlay protocols such as VXLAN EVPN and OTV
1.4 Apply ACI concepts
- 1.4.a Fabric setup
- 1.4.b Access policies
- 1.4.c VMM
- 1.4.d Tenant policies

1.5 Analyze packet flow (unicast, multicast, and broadcast)
1.6 Analyze Cloud service and deployment models (NIST 800-145)
1.7 Describe software updates and their impacts
- 1.7.a Disruptive / nondisruptive
- 1.7.b EPLD
- 1.7.c Patches

1.8 Implement network configuration management
1.9 Implement infrastructure monitoring such as NetFlow and SPAN
1.10 Explain network assurance concepts such as streaming telemetry

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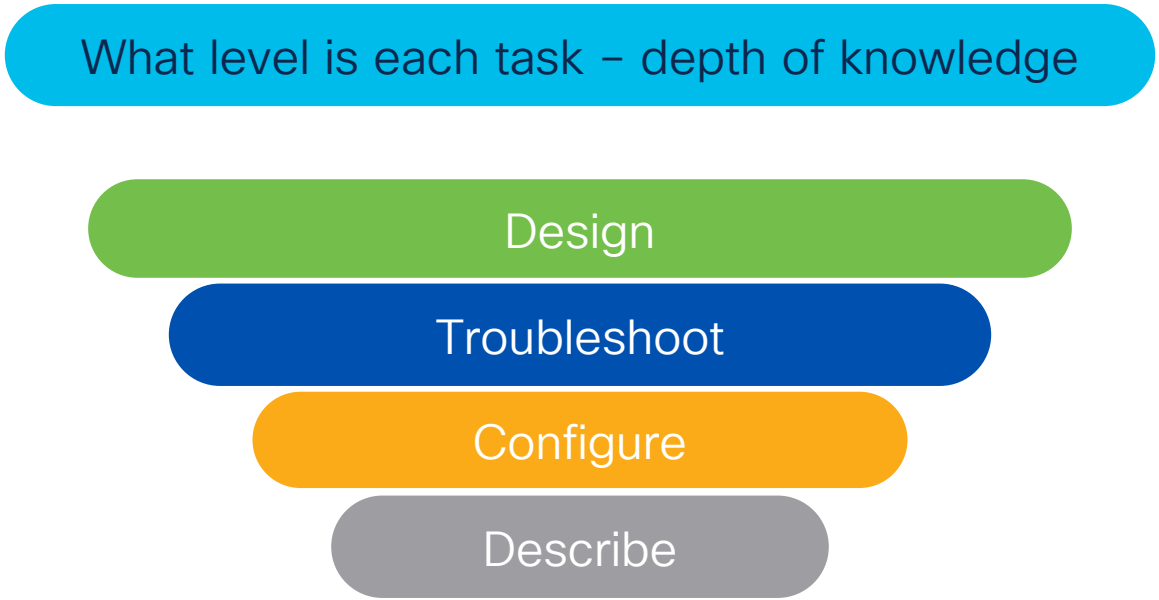
Blueprint Verbs



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350-601 DCCOR Exam: Implementing and Operating Cisco Data Center Core Technologies

Exam blueprint

350-601 DCCOR

- 120-minute exam
- Associated with the CCNP and CCIE Data Center Certifications

Domain / Weight

1.0	Network	25%
2.0	Compute	25%
3.0	Storage Network	20%
4.0	Automation	15%
5.0	Security	15%

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Blueprint domain and tasks

Domain 1	Tasks
Network	1.1 Apply routing protocols 1.2 Apply switching protocols such as RSTP+, LACP and vPC 1.3 Apply overlay protocols such as VXLAN EVPN and OTV 1.4 Apply ACI concepts 1.5 Analyze packet flow (unicast, multicast, and broadcast) 1.6 Analyze Cloud service and deployment models (NIST 800-145) 1.7 Describe software updates and their impacts 1.8 Implement network configuration management 1.9 Implement infrastructure monitoring such as NetFlow and SPAN 1.10 Explain network assurance concepts such as streaming telemetry

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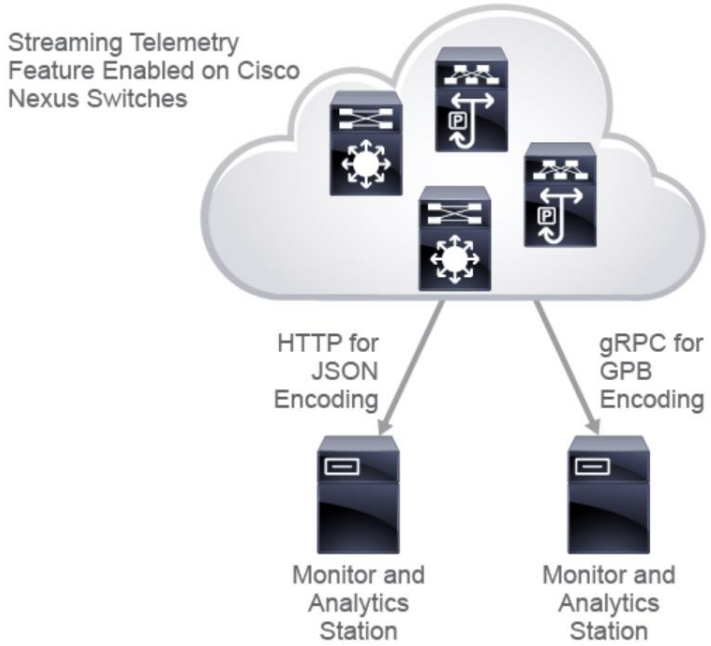
Streaming Telemetry

Cisco Telemetry streaming consists of

Data collection: The telemetry data is collected from the NX-OS DME in branches of the object model specified using distinguished name (DN) paths.

Data encoding: The telemetry encoder encapsulates the collected data into the desired format for transporting, such as JSON and GPB.

Data transport: The telemetry data is typically transported from the Cisco NX-OS device to an external collector using HTTP for JSON encoding and gRPC for GPB encoding. The gRPC Agent on NX-OS provides a secure transport through TLS.



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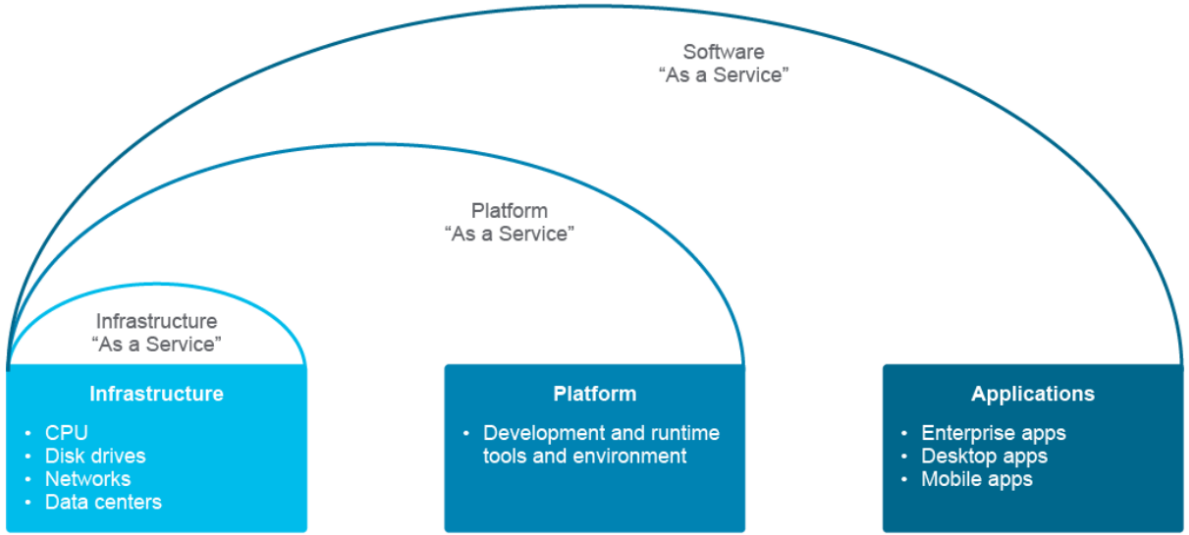
Cloud Deployments and Service Models

The service offers define the responsibilities for the management of the equipment and the software between the service provider and the customer.



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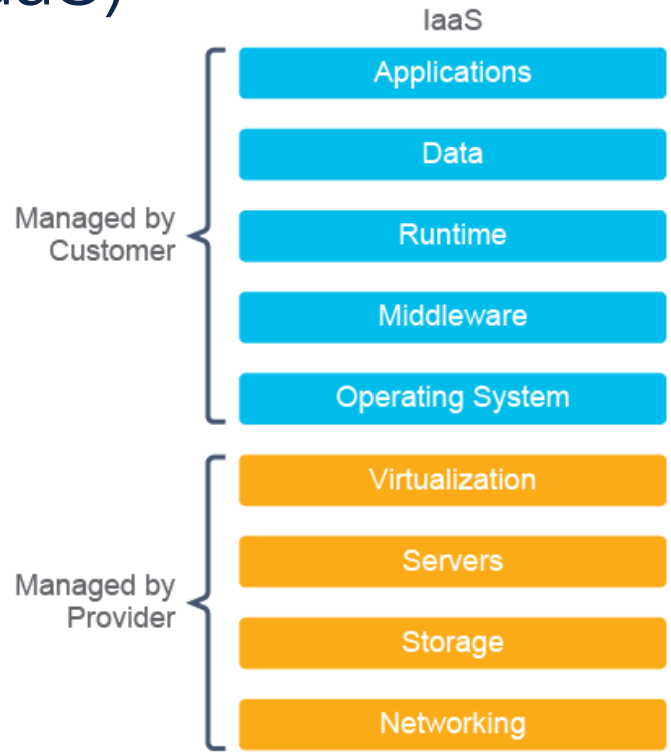
Infrastructure as a Service (IaaS)

The PaaS model has the following characteristics:

- Can provision computing resources
- Consumer can deploy and run arbitrary software
- Consumer does not manage or control the underlying cloud infrastructure
- Billed as a utility with predictable cost structure



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Cloud Deployment Models

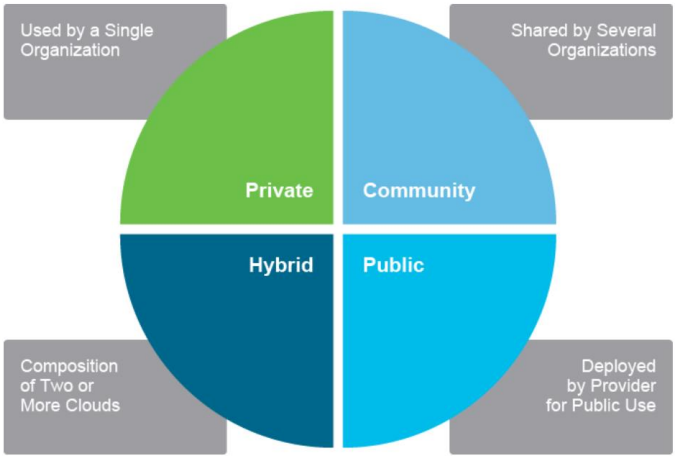
Cloud deployment models are based on the ownership model of the cloud infrastructure:

Private cloud: The cloud infrastructure is completely dedicated to a particular organization; there is no public access. Usually, it is located on the premises of the organization in question, although it may be outsourced.

Public cloud: The cloud infrastructure is offered by a third-party provider and is accessible by the general **public. There may be a fee for the service.**

Hybrid cloud: The cloud infrastructure is a mix of at least two (usually private and public) cloud models. Often the public cloud may supplement a private cloud.

Community cloud: The cloud infrastructure is commonly built by several organizations for the purposes of addressing shared concerns. The most common example is to provide facilities for mutual disaster recovery sites.



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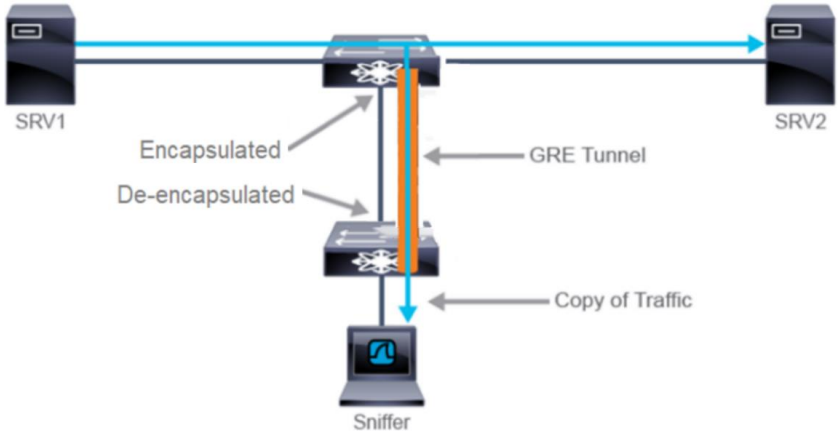
ERSPAN overview

The traffic is encapsulated at the source router and is transferred across the network. The packet is de-encapsulated at the destination router and then sent to the destination interface.



ERSPAN consists of an:

- ERSPAN source session,
- routable ERSPAN GRE-encapsulated traffic,
- an ERSPAN destination session.

You separately configure ERSPAN source sessions and destination sessions on different switches.

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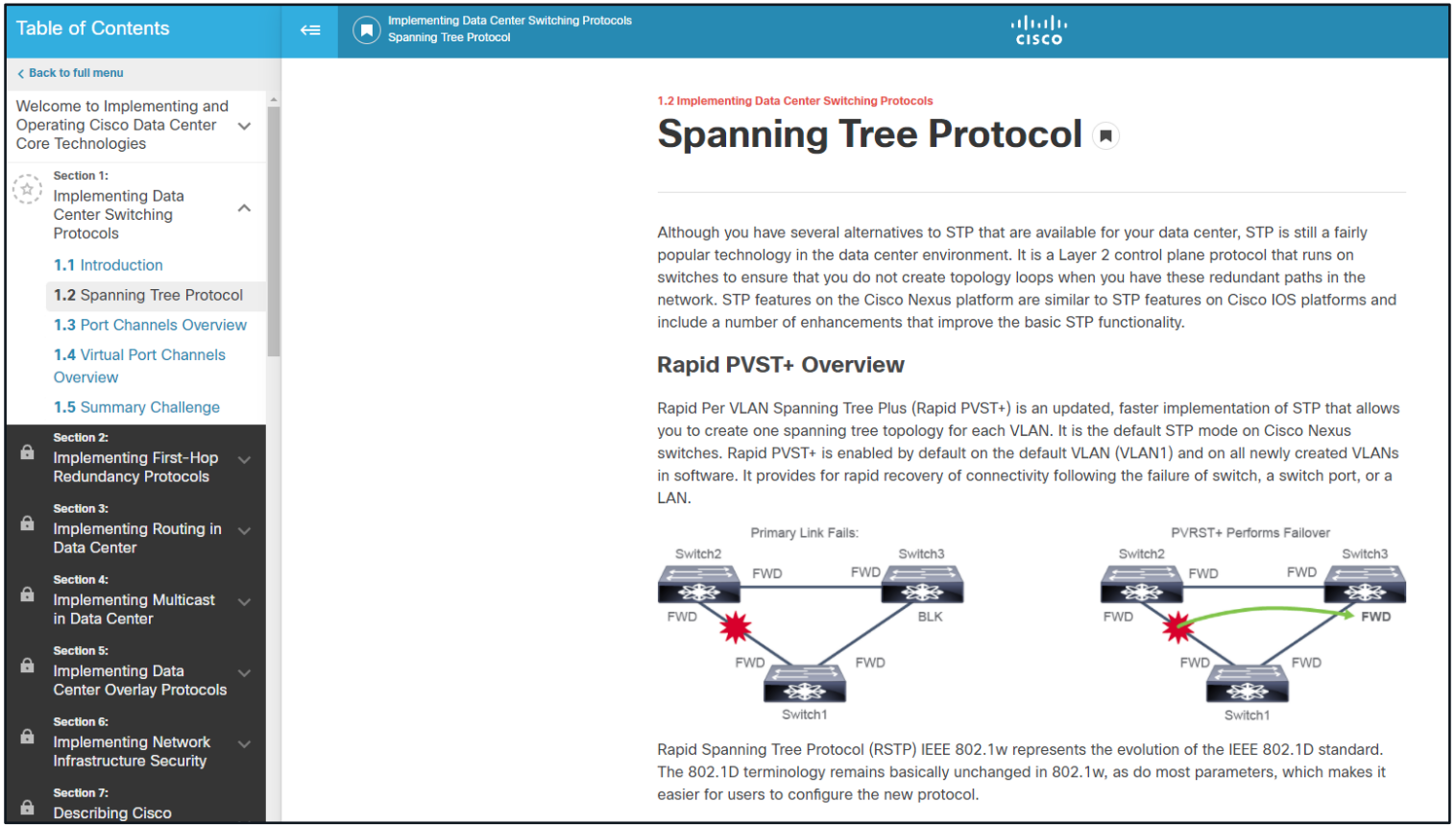
Learning resources

DCCOR course on Cisco Digital Learning

Blueprint structure

Hands-on Labs



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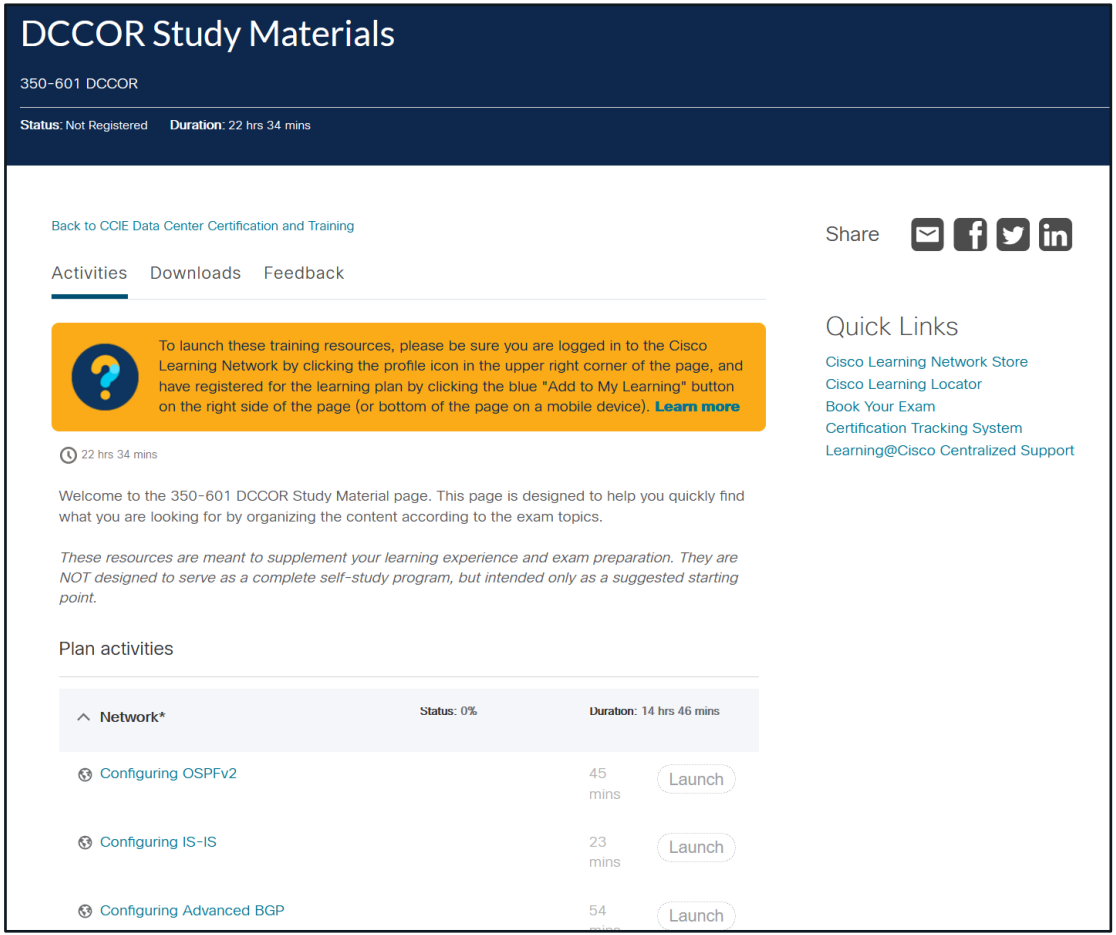
Self Study Materials

Organized by domain



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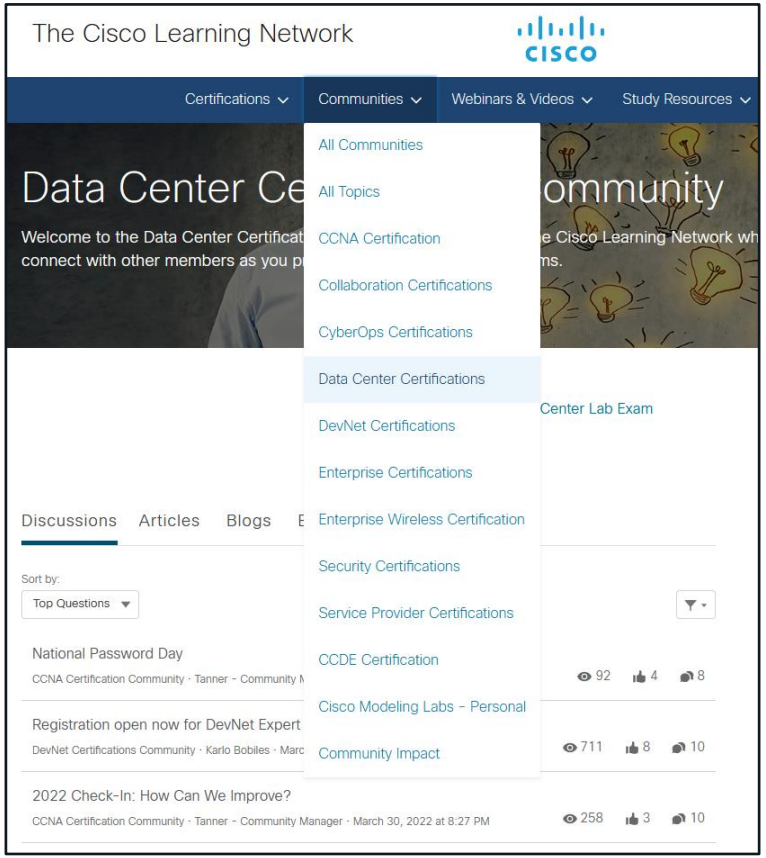

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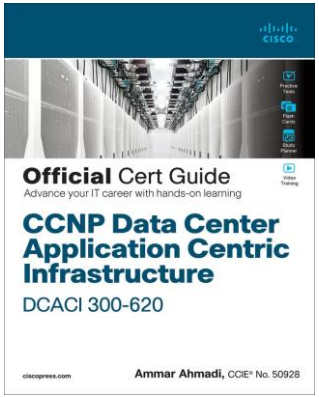
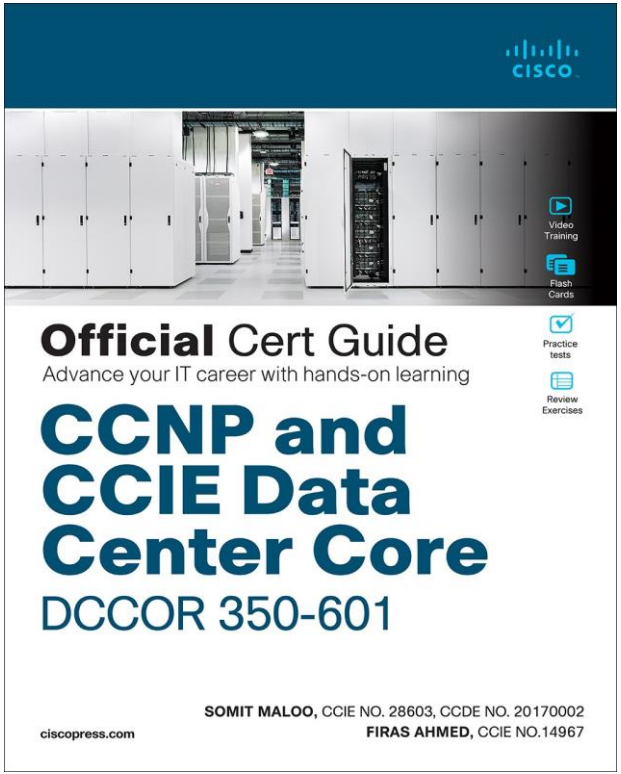
Books, Video Courses, and Practice Tests





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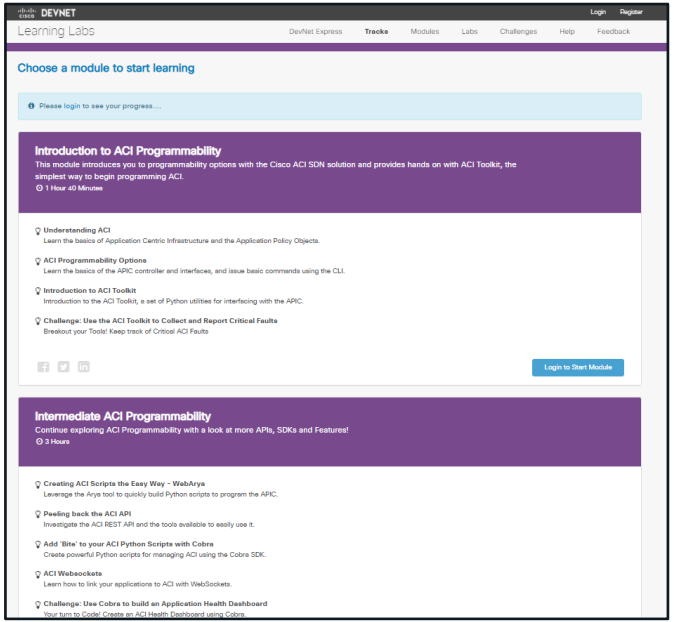
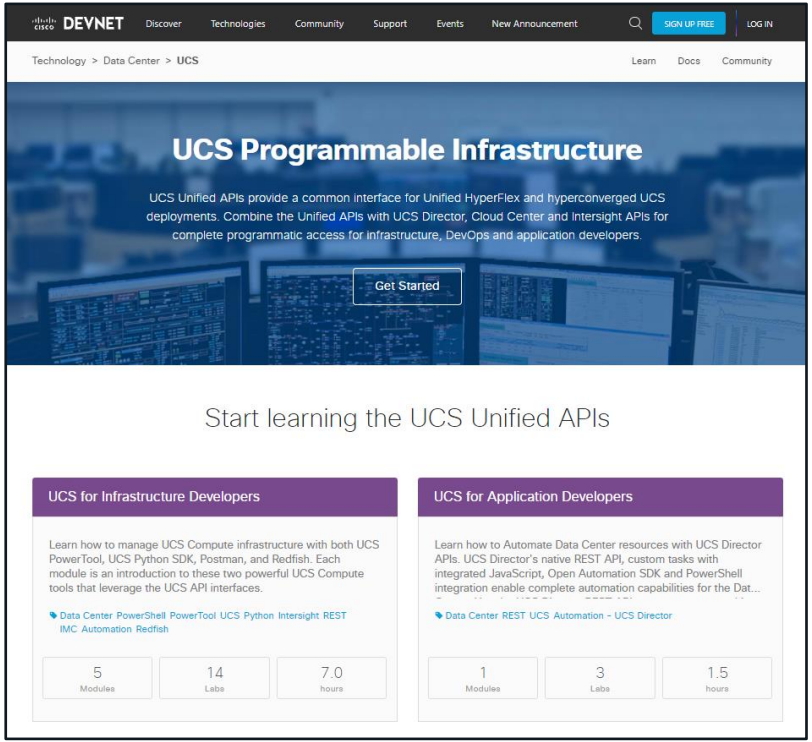
DevNet Learning Labs and DevNet Sandboxes

https://developer.cisco.com/learning/tracks
https://developer.cisco.com/site/sandbox/





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dCloud – Hands-On Labs, and Sandboxes

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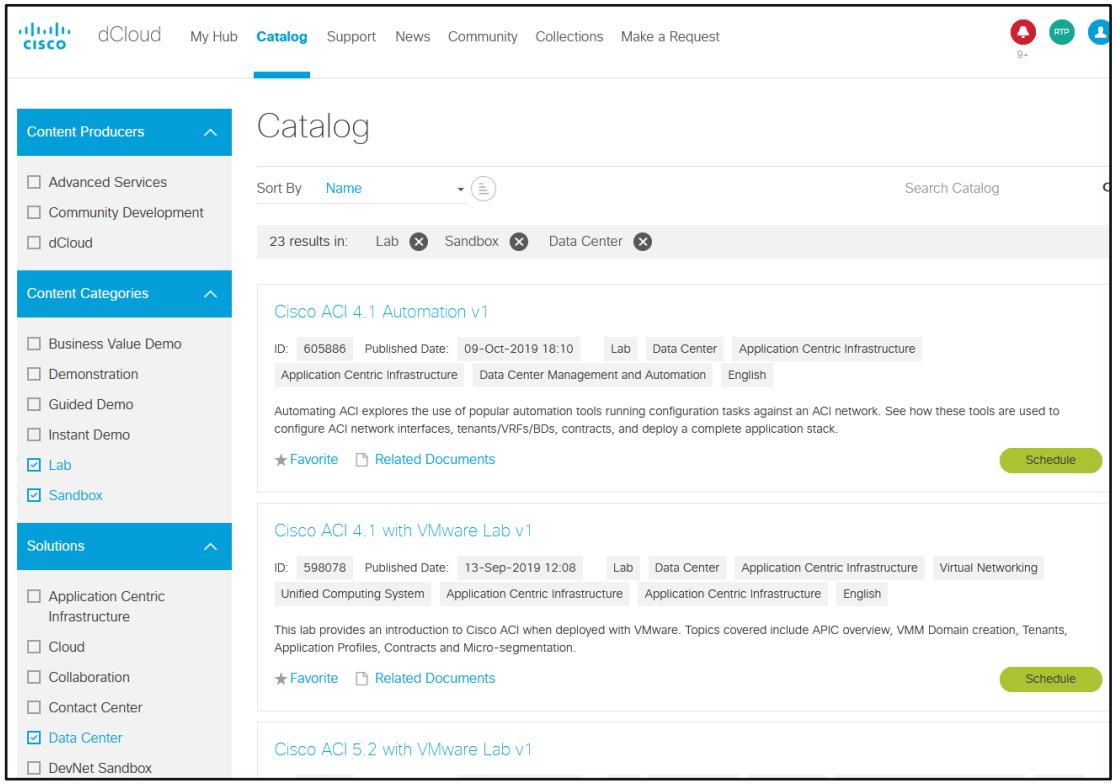

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Questions?

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