



CCIE Routing and Switching Labtorial

LTRCCIE-3001

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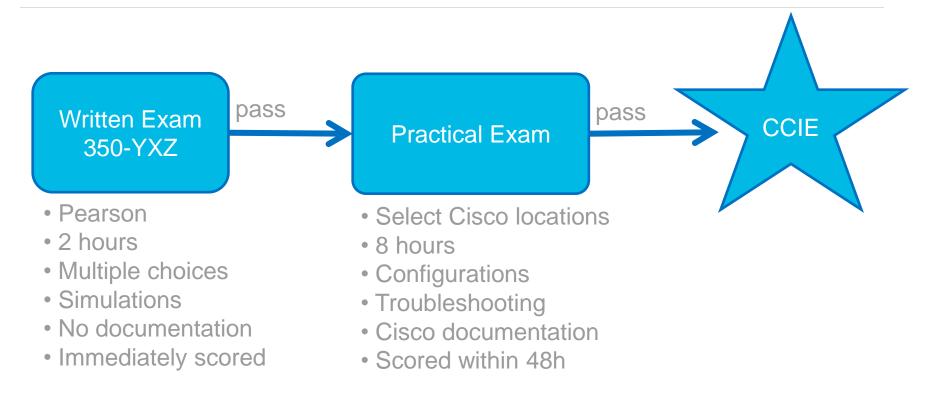
Housekeeping

- We value your feedback- don't forget to complete your online session evaluations after each session & the Overall Conference Evaluation which will be available online from Thursday
- Visit the World of Solutions and Meet the Engineer
- Visit the Cisco Store to purchase your recommended readings
- Please switch off your mobile phones
- After the event don't forget to visit Cisco Live Virtual: www.ciscolivevirtual.com
- Follow us on Twitter for real time updates of the event:
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Agenda

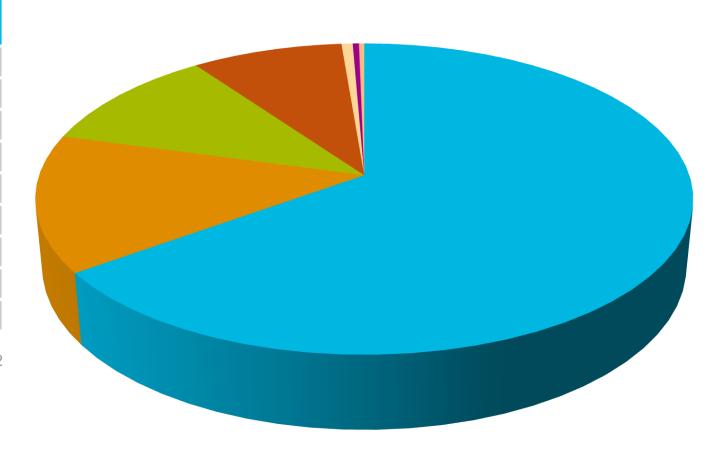
Section 1	CCIE Program Update
Section 2	CCIE Routing and Switching LAB exam
Section 3	Hands-On Lab
Section 4	Debriefing

Certification Process

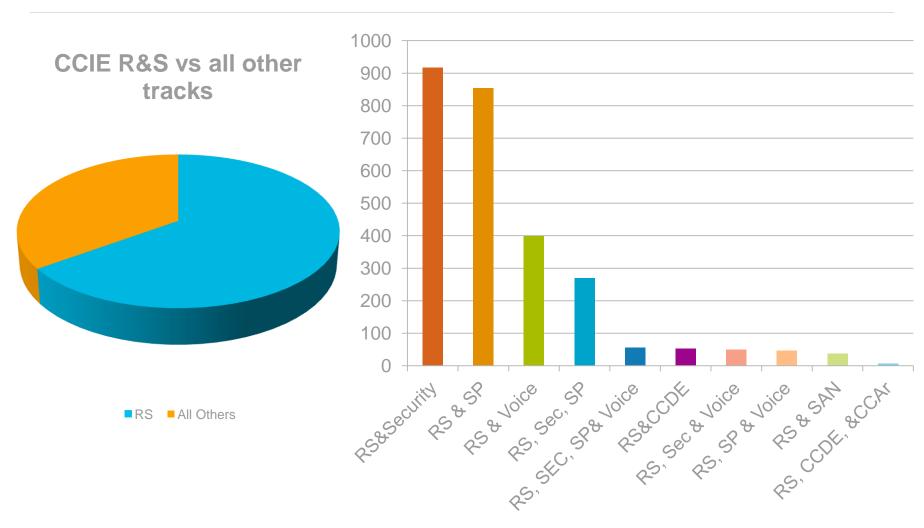


Total	26634*
RS	17,320
Security	3,794
SP	2,885
Voice	2,291
SAN	170
Wireless	93
CCDE	63
SP Ops	11
CCAr	7

Certified or Re-certified * Updated on 01/09/2012

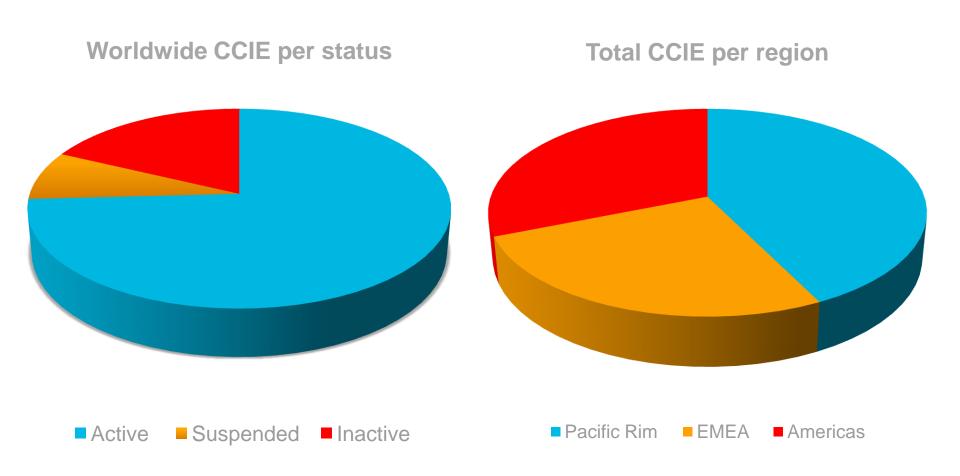






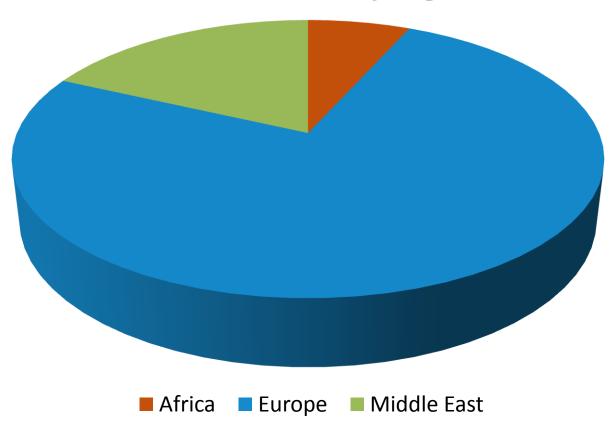
Updated on 01/09/2012

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Updated on 01/09/2012





Updated on 01/09/2012

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Agenda

Section 1	CCIE Program Overview
Section 2	CCIE Routing and Switching Version 4
Section 3	Hands-On Lab
Section 4	Debriefing

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CCIE Routing and Switching Version 4

- Expert-level knowledge of LAN and WAN interfaces,
 Routing Protocols, and variety of routers and switches
- Expert-level in troubleshooting to solve complex connectivity problems and apply solutions to increase bandwidth, improve response times, maximize performance, improve security, and support global applications



CCIE Routing and Switching Version 4

- V4.0 blueprint released May 5, 2009
- V4.0 exams released October 18, 2009
- Written and lab exams refreshed with new questions
- Added coverage of MPLS and VPN
- Written exam added simulations (flash based items)
- Lab exam added hands-on troubleshooting
- Exam durations and pricing remained same

CCIE R&S: Permanent Lab Locations



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CCIE R&S: Mobile Labs 2012

Note: Dates with an "R" Status are confirmed events with location information. These events are available for open registration.

Lab Locations	2012 Dates	Status	Lab
Bangkok, Thailand	Jan 30 - Feb 3	R	Routing & Switching, Security
Riyadh, Saudi Arabia	Feb 4 - 8	R	Routing & Switching, Security
Sao Paulo, Brazil	Feb 13 - 17	R	Routing & Switching, Security
Cairo, Egypt	Feb 19 - 23	R	Routing & Switching, Security
Buenos Aires, Argentina	Mar 5 - 9	R	Routing & Switching, Security and Voice
Moscow, Russia	Mar 19 - 23	R	Routing & Switching, Security
Seoul, South Korea	Mar 19 - 23	R	Routing & Switching, Security and Voice
Mexico City, Mexico	Apr 2- 6	R	Routing & Switching, Security and Voice
Istanbul, Turkey	Apr 16 - 20	R	Routing & Switching, Security
Lagos, Nigeria	Apr 30 - May 4	R	Routing & Switching, Security
Moscow, Russia	May 14 - 18	R	Routing & Switching, Security
Johannesburg, South Africa	May 28 - Jun 1	R	Routing & Switching, Security
Singapore, Singapore	Jun 4 - 8	R	Routing & Switching, Security and Voice
Rio de Janeiro, Brazil	Jun 11 - 15	R	Routing & Switching, Security
Toronto, Canada	Jun 18-22	R	Routing & Switching, Security and Voice
Warsaw, Poland	Jun 25 - 29	R	Routing & Switching, Security
Shanghai, PR China	Jul 23 - 27	R	Routing & Switching, Security

Status Legend:

N = New date and location, event is not confirmed

 ${f R}$ = Confirmed events and are available for open registration, it does not indicate availability. You must Login to the CCIE Database to view availability and register for lab exams.

P = Postponed

 \mathbf{C} = Canceled, due to low enrollment

Dates for 2012 available at: https://learningnetwork.cisco.com/docs/DOC-3224

CCIE R&Sv4: Exam Philosophy

- The routing and switching exam tests your ability to apply configuration knowledge, troubleshoot and resolve issues, and react to new and unusual situations;
- It is not a design test!
- Nor is it always a test of "best practices" for use in the field!

CCIE R&Sv4: Minimally Qualified Candidate

"The minimally qualified Routing and Switching CCIE can abstract functional elements of a complex network environment, understand how infrastructure components interoperate, grasp subtle issues, perceive problem areas, and quickly resolve problems.

The expert's fluency makes them ideally suited for configuring and validating implementations, troubleshooting critical network issues, and participating in network design teams."



CCIE R&Sv4: Exam Topics

- Implement Layer 2 Technologies
- Implement IPv4 includes BGP
- Implement IPv6
- Implement MPLS Layer 3 VPNs
- Implement IP Multicast
- Implement Network Services
- Implement Quality of Service
- Implement Network Security
- Troubleshoot a Network
- Optimize the Network
- Evaluate proposed changes to a Network (only in written exam)

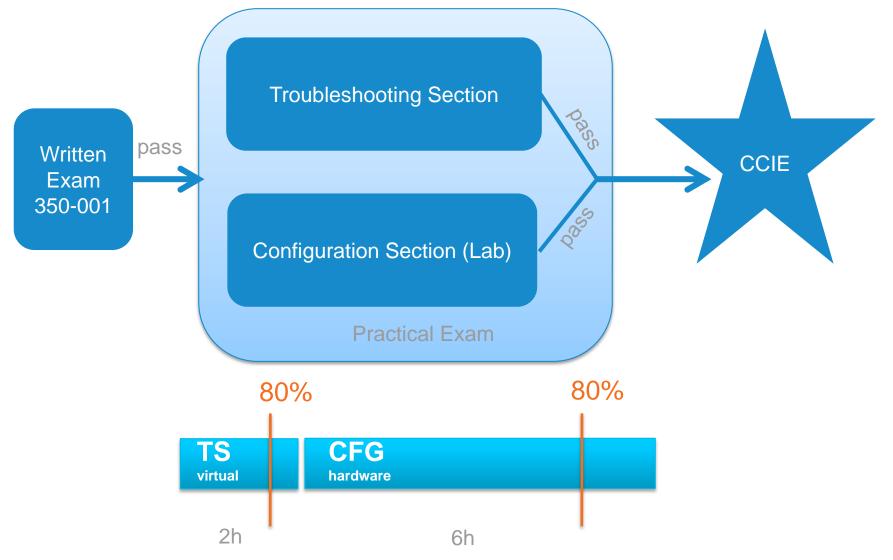
R&S Lab Exam Overview

- Candidates build a network to a series of supplied specifications
- The point values for each question are shown on the exam
- Some questions depend upon completion of previous parts of the network
- Each candidate has his/her own PC and dedicated rack of equipment, which may or may not be located in lab

R&S Lab Exam Overview

- Equipment should not require hardware configuration or cabling.
- Contact proctor if you discover a problem requiring intervention of this kind
- Report any suspected equipment issues to the proctor as soon as possible; adjustments cannot be made once the exam is over!

CCIE R&Sv4: Certification Process



CCIE R&Sv4: Lab Delivery System

- Web GUI delivering all the exam content (questions, diagrams, guidelines, access to devices, documentation)
- Transparent servers backend managing the user sessions and sharing load of running the IOU instances for each users
- Benefits:

Flexibility in content delivery format

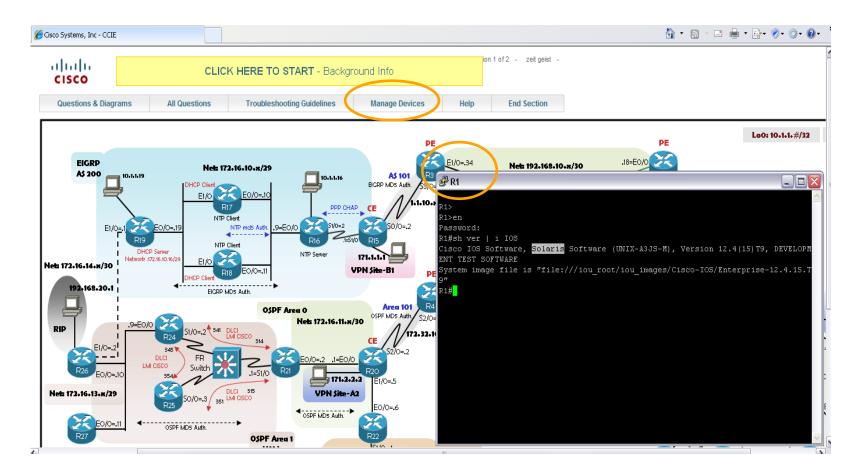
Content updates effective globally immediately

Consistent experience for candidates

No printed exam workbook

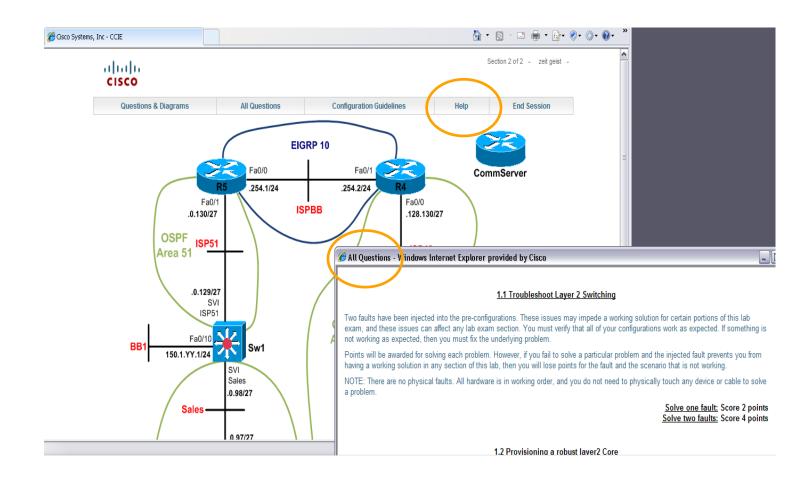
CCIE R&Sv4: Lab Delivery System

LDS: Example of TS session



CCIE R&Sv4: Lab Delivery System

LDS: Example of CFG session



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Lab Access

Lab Access:

URL: http://lds-prod-fe-1-api.cisco.com/users/login

User: [Instructor Provided]

• Timing:

Introduction 30min

Troubleshooting section: 1h max (auto-logout) 1h

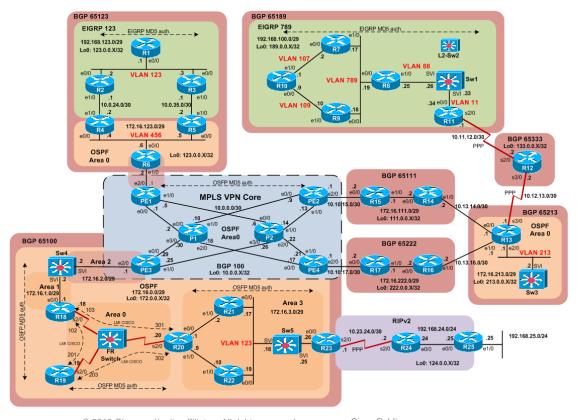
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Configuration section: until 15h30 **→**3:30pm

Debriefing **→**5:00pm

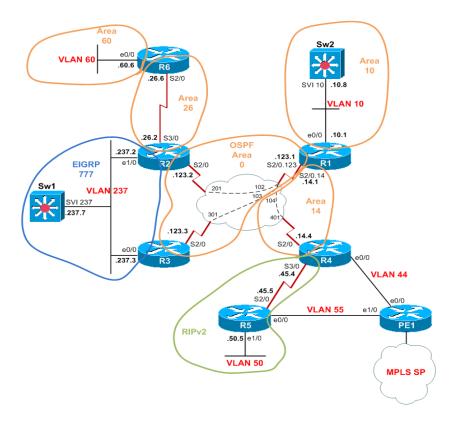
TS Topology

- Virtual devices (IOU + L2IOU)
- Web session will automatically close after 1h! Be aware!
- READ THE GUIDELINES FIRST!



CFG Topology

- Virtual devices (IOU + L2IOU)
- Web session will NOT automatically close... Proctor will stop you.
- READ THE GUIDELINES FIRST!



Recommended Reading

LTRCCIE-3001

Learn. Connect.
Collaborate. together.





CCIE Routing and Switching

Certification Guide

Fourth Edition

- ✓ Master CCIE Routing and Switching 4.0 blueprint exam topics
- Assess your knowledge with chapter-opening quizzes
- ✓ Review key concepts with Exam Preparation Tasks
- ✔ Practice with realistic exam questions on the CD-ROM

ciscopress.com

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Please complete your Session Survey

We value your feedback

- Don't forget to complete your online session evaluations after each session.
 Complete 4 session evaluations & the Overall Conference Evaluation (available from Thursday) to receive your Cisco Live T-shirt
- Surveys can be found on the Attendee Website at <u>www.ciscolivelondon.com/onsite</u> which can also be accessed through the screens at the Communication Stations
- Or use the Cisco Live Mobile App to complete the surveys from your phone, download the app at www.ciscolivelondon.com/connect/mobile/app.html
- Scan the QR code
 (Go to http://tinyurl.com/qrmelist for QR code reader software, alternatively type in the access URL above)
- 2. Download the app or access the mobile site
- 3. Log in to complete and submit the evaluations



http://m.cisco.com/mat/cleu12/



Thank you.

