WELCOME

Thank you for joining us for the quarterly Juniper Networks Certification Program (JNCP) Webcast

Introducing today’s speakers

- Lawrence Rust, Education Services Marketing Manager
- Liz Burns, JNCP Program Manager
- Kieran Milne, JNCP Technical Lead
- GUEST SPEAKER - Aleksey Mints, Director, Product Line Management for Junosphere
TOPICS FOR DISCUSSION

Junosphere Updates
- Leveraging Junosphere for learning and exam prep

JNCP Program Updates
- JNCP 2012-2013 Audience Survey
- PVUE Transition complete

JNCP framework and curriculum update
- New certifications
- New courses

Junosphere Offer

Juniper Learning Bytes update

Keeping in touch
Juniper Networks Certification Program

Aleksey Mints
Director, Product Line Management, Junosphere
Nov 13, 2012
THE CHALLENGE FOR NETWORK TRAINING

For customers that need to prepare for Juniper Networks certification exams, options are:

Option 1: Use real equipment
Build a networking lab
Realistic, offers full feature set and works for classroom training, but
• Costly for individuals
• Ongoing power, space, maintenance costs
• Logistical challenge – long and complex setup
• Not scalable

Option 2: Use Simulators
Use software-based routing simulators
Cheaper for trainers, but not ideal for individuals...
• Not a real OS – there will always be differences
• Limited functionality – may not support features and protocols
SOLUTION – THE NEW NETWORK APPROACH

Now there is a new approach …

Option 3: Use Junosphere

*Industry’s first and only cloud-based network virtualization service*

Build your own virtual networking environment …

- **Realistic**: Identical to physical network elements
- **Scalable**: Number of nodes easily scales up and down
- **Flexible**: Easily and quickly change topologies and configurations – no racking, stacking, cabling
- **Cost-effective**: Pay-as-you go; no power/cooling costs

New approach is cost-effective, highly flexible and fully realistic
**JUNOSPHERE ARCHITECTURE**

**User interface**
Secure access via web browser and file transfer

**Customer isolation**
Independent, secure cloud silo for each customer

**SSL VPN**
Secure tunnel to physical customer network

**Customer A**

**Customer B**

**Junosphere Connector**
Secure tunnel to physical customer network
KEY FEATURES

1. TRUE COMMERCIAL SAAS SERVICE
   - Self-service provisioning; usage-based pricing
   - Fully supported by JTAC

2. REAL LAB ECOSYSTEM
   - Actual Junos virtual machines
   - Ecosystem of partner tools and applications

3. GUI-BASED ENVIRONMENT
   - Web-based user interface
   - GUI wizard for topology creation
GRAPHICAL USER INTERFACE

- Login screen
- Topology Design
- Reservations
- Device CLI
VJX Series is the virtual Junos platform that runs in a hypervisor on standard x86 hardware

- Full control plane, management plane and forwarding plane features
- Support 64 Ethernet Interfaces
- Software forwarding performance: 50 Mbps
- Detailed list of supported features

- IPv4/IPv6 Unicast / Multicast
- Routing: OSPF, BGP, RIPv2, Static routes, IS-IS,...
- Multicast: IGMPv3, PIM, SDP, DVRMRP, Source Specific
- MPLS: Layer 2 VPN (VPLS), Layer 3 VPN, LDP, RSVP
- Encapsulations: Ethernet (MAC and tagged), PPPoE
- NAT/Stateful Firewall Filters/Intrusion Detection
- Tunneling: GRE, IP in IP
- COS
- User Authentication/Access: RADIUS, RSA SecureID, LDAP
- J-Web, CLI
## ROADMAP FOR JUNIPER NETWORK ELEMENTS

<table>
<thead>
<tr>
<th>Element</th>
<th>Experimental</th>
<th>Supported</th>
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<tbody>
<tr>
<td>Junos Space</td>
<td>--</td>
<td>Now</td>
</tr>
<tr>
<td>VJX</td>
<td>--</td>
<td>Now</td>
</tr>
<tr>
<td>JunosV Firefly (VSRX)</td>
<td>Now (VSRX)</td>
<td>Q1-2013</td>
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<tr>
<td>VMX</td>
<td>Q1-2013</td>
<td>Q4-2013</td>
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<td>VPTX</td>
<td>Now</td>
<td>Q2-2013</td>
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<tr>
<td>T-Series</td>
<td></td>
<td>2014</td>
</tr>
<tr>
<td>EX / QFX</td>
<td></td>
<td>2014</td>
</tr>
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</table>
LEVERAGING JUNOSPHERE FOR CERTIFICATION

SP track
- Routing and MPLS coverage
- MX-specific coverage coming in near future

ENT track
- Routing coverage
- Switching coverage coming in future

SEC track
- Basic/core feature coverage
- Much more coverage coming through 2013
HOW AND WHAT TO ORDER

- Can be ordered via credit card
  - [https://learningportal.juniper.net/juniper/user_activity_info.aspx?id=5735](https://learningportal.juniper.net/juniper/user_activity_info.aspx?id=5735)

- Pricing is based on concept of a “VM-unit”: capacity needed to run 1 basic virtual machine for 1 day (e.g., to run 1 VJX for 1 day requires 1 VM unit)
  - Available in increments starting at 10 VM units ($50)
  - Scheduled time or permanently reserved resources

<table>
<thead>
<tr>
<th>SKU</th>
<th>Description</th>
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<tbody>
<tr>
<td>JUS-CLASS-10VM-1</td>
<td>10 Classroom VM units. Includes images and tools.</td>
<td>$50</td>
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<tr>
<td>JUS-CLASS-10VM-30</td>
<td>300 Classroom VM units. Includes images and tools.</td>
<td>$1,500</td>
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</table>
FORUMS AND VENUES FOR DISCUSSION

J-NET

- Junos and Junosphere

- Training and Certification
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ANNUAL JNCP AUDIENCE SURVEY

This is where we ask the certified community…

“What value have YOU realized from your Juniper certification”

Last year over 7,000 Juniper certified engineers worldwide, from all audiences, told us why they achieved Juniper certification and what benefits they want from their certification. We would like to bet that number in 2012/2013.

Response by Audience

- Customer: 50%
- Partner: 42%
- Employee: 5%
- Student: 3%

Response by Geo

- Asia Pacific: 45%
- Europe, Middle East, Africa: 33%
- Americas: 22%
DOING ANNUAL SURVEY WILL ALLOW FOR TRENDS

In 2011 candidates told us -
Primary value from achieving Juniper Networks certifications was increased skill and job performance

This IS NOT a salary survey.
Salary is subjective across companies/countries. This is about all the things that help ensure high salaries – job performance

What participants said
“Extended my knowledge of network equipment”
“Improved my troubleshooting ability”
“Big benefit from the knowledge I gained in exam preparation”
TIMING FOR ANNUAL SURVEY

Open survey today after this web cast

Close survey November 29

Release results in January, 2013

Thank you gift for those that respond quickly!

- First response in each geo – an engraved iPad Mini
- Next 25 responses in each geo – a free exam voucher
NEW TEST DELIVERY PARTNER

Effective October 1 Pearson VUE became the exclusive test delivery partner for Juniper Networks Certification

Pearson VUE is the leader in supporting IT certification programs. They bring to Juniper:

GROWTH
- 5,000 testing centers worldwide
- Coverage is the same or greater than Prometric
- Continues to grow this channel to meet increasing IT client delivery requirements

INNOVATION
- Well funded to invest in new and better technologies and processes
- Have a roadmap into 2013 to regularly update and innovate exam delivery technologies
- Have invested in several different parts of the certification “ecosystem” - candidate management systems (CertManager), on-line publishing and study guides, exam prep programs, etc.

VALUE
- Industry leading exam security framework, including a secure test driver that they continue to enhance, high quality testing centers, secure test admission requirements and early exam fraud detection.
PEARSON VUE TRANSITION - THINGS TO REMEMBER

Juniper exams no longer available at Prometric

Prometric vouchers that have not been redeemed or expired are now accepted at PVUE

You will need a Juniper specific PVUE account

Enhanced security measures – you will now have a photo on your score report

Register for a test - http://www.pearsonvue.com/junipernetworks/

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# NEW CERTIFICATIONS

<table>
<thead>
<tr>
<th>Exam and Credential</th>
<th>Recommended Training</th>
<th>Topics Covered</th>
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</thead>
<tbody>
<tr>
<td><strong>QFabric, Specialist (JNCIS-QF)</strong></td>
<td>Configuring and Monitoring QFabric Systems</td>
<td>• QFabric System Concepts</td>
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<tr>
<td></td>
<td>Troubleshooting QFabric Systems</td>
<td>• System Setup, Configuration and Troubleshooting</td>
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<tr>
<td></td>
<td></td>
<td>• Layer 2 Operations and Troubleshooting</td>
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<tr>
<td></td>
<td></td>
<td>• Layer 3 Operations and Troubleshooting</td>
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<td></td>
<td></td>
<td>• Data Center Storage Fundamentals</td>
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<tr>
<td>Exam type: 70 questions</td>
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<tr>
<td>Prerequisite: JNCIS-ENT</td>
<td></td>
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<tr>
<td><strong>Junos Pulse Secure Access, Specialist (JNCIS-SA)</strong></td>
<td>Junos Pulse Secure Access</td>
<td>• Initial Configuration</td>
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<tr>
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<td>• Roles</td>
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<td>• Policies and Profiles</td>
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<td>• Authentication</td>
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<td>• Client/Server Communications</td>
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<td>• Junos Pulse Client and Collaboration</td>
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<td>• Endpoint Security</td>
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<td>• Virtualization</td>
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<td>• High Availability</td>
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<td>• Administration, Management and Troubleshooting</td>
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<td>Replaces: JNCIA/S-SSL</td>
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<td><strong>Wireless LAN, Specialist (JNCIS-WLAN)</strong></td>
<td>Introduction to Juniper Networks Wireless LANs</td>
<td>• Wireless LAN Overview</td>
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<td>Advanced Juniper Networks Wireless LANs</td>
<td>• Planning</td>
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<td>• Initial Setup and Installation</td>
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<td>• Deployment and Configuration</td>
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<td>• Domains and High Availability</td>
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<td>• Architecture</td>
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<td>• Wireless LAN Services</td>
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<td>• Management and Reporting</td>
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<td>• Integration</td>
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<td>• Monitoring and Troubleshooting</td>
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<tr>
<td>Exam type: 60 questions</td>
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## UPDATED / END-OF-LIFE CERTIFICATIONS

<table>
<thead>
<tr>
<th>Exam and Credential</th>
<th>Action</th>
<th>Date</th>
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<tbody>
<tr>
<td><strong>FWV, Associate (JNCIA-FWV)</strong></td>
<td>• End-of-life exam</td>
<td>• Late January, 2013</td>
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<tr>
<td></td>
<td>• JN0-522 (JNCIA-FWV)</td>
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<tr>
<td></td>
<td>• Earned certifications still valid for two years from date earned</td>
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</tr>
<tr>
<td><strong>FWV, Specialist (JNCIS-FWV)</strong></td>
<td>• Refresh current exam</td>
<td>• Late January, 2013</td>
</tr>
<tr>
<td></td>
<td>• JN0-532 -&gt; JN0-325 (JNCIS-FWV)</td>
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<tr>
<td></td>
<td>• No impact on existing certifications</td>
<td></td>
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<tr>
<td></td>
<td>• No impact/change to related curriculum</td>
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</table>
Juniper Networks Certification Program Framework

NEW COURSES FOR Q4

Configuring and Monitoring the vGW Virtual Gateway (CMvGW)
  ▪ 2-day ILT

Configuring Security Threat Response Manager (CSTRM)
  ▪ 2-day ILT

Junos Space Essentials (JSE)
  ▪ 2-day ILT

Troubleshooting QFabric Systems (TQS)
  ▪ 2-day ILT

Junos IP Version 6 (J-IPv6)
  ▪ 2-day ILT
### FREE EXAM VOUCHERS IN THE STUDENT KITS

<table>
<thead>
<tr>
<th>Course</th>
<th>Related Certification Credential</th>
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</thead>
<tbody>
<tr>
<td>Junos Routing Essentials</td>
<td>JNCIA-Junos</td>
</tr>
<tr>
<td>Junos Service Provider Switching</td>
<td>JNCIS-SP</td>
</tr>
<tr>
<td>Junos Enterprise Switching</td>
<td>JNCIS-ENT</td>
</tr>
<tr>
<td>Junos Security</td>
<td>JNCIS-SEC</td>
</tr>
<tr>
<td>Junos Unified Threat Management</td>
<td>JNCIS-SEC</td>
</tr>
<tr>
<td>Junos Multicast Routing</td>
<td>JNCIP-SP</td>
</tr>
<tr>
<td>Advanced Junos Enterprise Switching</td>
<td>JNCIP-ENT</td>
</tr>
<tr>
<td>Junos Intrusion Prevention System Functionality</td>
<td>JNCIP-SEC</td>
</tr>
<tr>
<td>Junos Pulse Access Control</td>
<td>JNCIS-AC</td>
</tr>
<tr>
<td><strong>NEW</strong> Junos Pulse Secure Access</td>
<td>JNCIS-SA</td>
</tr>
<tr>
<td><strong>NEW</strong> Configuring and Monitoring QFabric Systems</td>
<td>JNCIS-QF</td>
</tr>
<tr>
<td><strong>NEW</strong> Advanced Juniper Networks Wireless LANs</td>
<td>JNCIS-WLAN</td>
</tr>
</tbody>
</table>

Note: course titles in this promotion subject to change.

www.juniper.net/training/news
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Keeping in touch
JUNOSPHERE 50% DISCOUNT

Students that attend classroom or Instructor-Led Online (ILO) training from Juniper or our Authorized Education Partners are eligible to receive a 50% discount on Junosphere Classroom

Junosphere Classroom enables you to:

- practice the principles and operation of Junos OS, routing protocols, and networking in general
- create virtual networking labs with full hands-on access to Juniper's state-of-the-art commercial networking technology, without the expense of building or maintaining your own physical lab

Upon completion of a class evaluation, students are presented with a Junosphere discount code and directions for redemption

Note: Access to Junosphere Classroom via this offer does not include any existing Education Services configurations or topologies.

What are Learning Bytes??

- Short and concise tips and instructions on specific features and functions of Juniper technologies
- Taught by training experts
- Relevant for all skill levels
- Video-based...learn when you want, in the office or on the go
- Free of charge!
<table>
<thead>
<tr>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>Branch SRX Series: Creating and Managing Admin Users Learning Byte</td>
</tr>
<tr>
<td>Branch SRX Series: Installing or Upgrading Junos Software Learning Byte</td>
</tr>
<tr>
<td>Class of Service Basics, Part 1: Overview Learning Byte</td>
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<tr>
<td>Class of Service Basics, Part 2: Classification Learning Byte</td>
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<tr>
<td>Conditional Route Advertising with SRX Series Chassis Clusters Learning Byte</td>
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<tr>
<td>Configuring IRB Interfaces on an MX Router Learning Byte</td>
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<tr>
<td>Intermediate MPLS: Static RSVP Paths Learning Byte</td>
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<td>Intermediate OSPF: Using IPv4 with OSPFv3 Learning Byte</td>
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<tr>
<td>Junos CLI Advanced Techniques: Load Patch and Replace Pattern Learning Byte</td>
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<tr>
<td>Link Aggregation Group Learning Byte (Chinese)</td>
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<td>Plaintext vs Encrypted Passwords Learning Byte</td>
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<tr>
<td>Routed Vlan Interface for EX Switch Learning Byte (Chinese)</td>
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<td>SRX AppSecure - Basic Application Firewalling Learning Byte</td>
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<tr>
<td>Using the External Port for Admin Access Learning Byte</td>
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<tr>
<td>Voice Over IP EX Switch Learning Byte</td>
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LEARNING BYTES: ADDITIONAL INFORMATION

“Tell, then Show”: Learning Bytes first discuss the feature’s importance and use; then “shows” how to execute the feature on a Junos device.

Additional Learning: Learning Bytes typically include recommendations on where to learn more about the topic.

Ratings: Once you’ve viewed a Learning Byte, you can rate it.

New Bytes: new Learning Bytes are always in development and added to the site regularly

Suggest a Topic: Have an idea for a Learning Byte? You can submit a request for a Byte.

www.juniper.net/learningbytes

Learning Bytes…expand your knowledge bit by bit
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Keeping in touch
KEEPING IN TOUCH

Program Manager - Liz Burns – lburns@juniper.net

@JuniperCertify; @JuniperEducate

J-NET DISCUSSION FORUMS Training, Certification and Career forum

LinkedIn – multiple LinkedIn groups

Certification Program website: www.juniper.net/certification

Customer Service alias: certification-info@juniper.net