Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415)

Category: Networking & Security | **Vendor:** Red Hat

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This course is ideal for security administrators and system administrators who need to manage the secure operation of servers running Red Hat® Enterprise Linux®, whether deployed on physical hardware, as virtual machines, or as cloud instances. Maintaining security of computing systems is a process of managing risk through the implementation of processes and standards backed by technologies and tools. In this course, you will discover and understand the resources that can be used to help you implement and comply with your security requirements. This course is based on Red Hat Enterprise Linux 7.5, Red Hat Satellite 6.3, Red Hat Ansible® Engine 2.5, Red Hat Ansible Tower 3.2, and Red Hat Insights.

About This Course

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Who Should Attend

System administrators, IT security administrators, IT security engineers, and other professionals responsible for designing, implementing, maintaining, and managing the security of Red Hat Enterprise Linux systems and ensuring their compliance with the organization's security policies. Be a Red Hat Certified Engineer (RHCE®), or demonstrate equivalent Red Hat Enterprise Linux knowledge and experience.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Students that complete this course should be able to demonstrate these skills: - Analyze and remediate system compliance using OpenSCAP and SCAP Workbench, employing and customizing baseline policy content provided with Red Hat Enterprise Linux. - Monitor security-relevant activity on your systems with the kernel's audit infrastructure. - Explain and implement advanced SELinux techniques to restrict access by users, processes, and virtual machines. - Confirm the integrity of files and their permissions with AIDE. - Prevent unauthorized USB devices from being used with USBGuard. - Protect data at rest but provide secure automatic decryption at boot using NBDE. - Proactively identify risks and misconfigurations of systems and remediate them with Red Hat Insights. - Analyze and remediate compliance at scale with OpenSCAP, Red Hat Insights, Red Hat Satellite, and Red Hat Ansible Tower.

Detailed Course Outline

1 - MANAGE SECURITY AND RISK

- Define strategies to manage security on Red Hat Enterprise Linux servers.

2 - AUTOMATE CONFIGURATION AND REMEDIATION WITH ANSIBLE

- Remediate configuration and security issues with Ansible Playbooks.

3 - PROTECT DATA WITH LUKS AND NBDE

- Encrypt data on storage devices with LUKS and use NBDE to manage automatic decryption when servers are booted.

4 - RESTRICT USB DEVICE ACCESS

- Protect system from rogue USB device access with USBGuard.

5 - CONTROL AUTHENTICATION WITH PAM

- Manage authentication, authorization, session settings, and password controls by configuring pluggable authentication modules (PAMs).

6 - RECORD SYSTEM EVENTS WITH AUDIT

- Record and inspect system events relevant to security, using the Linux kernel's audit subsystem and supporting tools.

7 - MONITOR FILE SYSTEM CHANGES

- Detect and analyze changes to a server's file systems and their contents using AIDE.

8 - MITIGATE RISK WITH SELINUX

- Improve security and confinement between processes by using SELinux and advanced SELinux techniques and analyses.

9 - MANAGE COMPLIANCE WITH OPENSCAP

- Evaluate and remediate a server's compliance with security policies by using OpenSCAP.

10 - AUTOMATE COMPLIANCE WITH RED HAT SATELLITE

- Automate and scale your ability to perform OpenSCAP checks and remediate compliance issues using Red Hat Satellite.

11 - ANALYZE AND REMEDIATE ISSUES WITH RED HAT INSIGHTS

- Identify, detect, and correct common issues and security vulnerabilities with Red Hat Enterprise Linux systems by using Red Hat Insights.

12 - PERFORM A COMPREHENSIVE REVIEW

- Review the content covered in this course by completing hands-on review exercises.

Additional Course Details

Nexus Humans Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 5-day Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415)?

Yes, we provide corporate training, dedicated training, and closed classes for Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Red Hat Security - Linux in Physical, Virtual, and Cloud (RH415) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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