Red Hat Services Management and Automation

Duration: 5 Days Course Code: RH358

Overview:

Learn how to configure and manage key services integrated with Red Hat Enterprise Linux, and scale up your work with Ansible automation.
Red Hat Services Management and Automation (RH358) is designed for IT professionals with some experience managing Linux systems, who want to learn more about how to manage and deploy network services that are included with Red Hat Enterprise Linux. You will learn how to manually install, configure, and manage basic configurations of these services, and then use Ansible to automate your work in a scalable, repeatable manner.
This course is based on Red Hat Ansible Automation Platform 2.4 and Red Hat Enterprise Linux 9.4.
Note : *Red Hat Learning Subscription COURSE – Included with Your Purchase*
Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.
When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.
Your RHLS subscription includes:
- One live, instructor-led virtual session
- 12 months of self-paced learning access
- One certification exam with a free retake
Onsite Classroom-based sessions and closed course options remain unchanged.

Target Audience:

Linux system administrators, platform engineers, developers, and other IT professionals with some Ansible experience who are interested in learning how to manage and automate the deployment, configuration, and operation of key network services included with Red Hat Enterprise Linux.

Objectives:

- Providing key network services using software included with Red Hat Enterprise Linux 9, including:
- DNS with Unbound and BIND9
- IPv4 and IPv6 network autoconfiguration withDHCP and DHCPv6 servers
- Client email transmission
- Printing service with IPP Everywhere and CUPS
- NFS and SMB protocol file sharing
- SQL database service with MariaDB
- Web services using Apache HTTPD and Nginx.
- Configuring advanced networking for server use cases, including network bonding
- Using Ansible to automate the manual deployment and configuration tasks covered in this course

Prerequisites:

- RHCSA-level skills with Linux system administration
- Working knowledge of Ansible (RH294 or equivalent skills and experience)

Follow-on-Courses:

- Developing Advanced Automation with Red Hat Ansible Automation Platform (DO374)
- DO447 - Advanced Automation: Ansible Best Practices
- RH342 - Red Hat Linux Diagnostics and Troubleshooting

Content:

1. Managing Network Services

Discuss and review key tools and skills needed to manage network services.

2. Configuring Link Aggregation

Configure and troubleshoot advanced network interface functionality, including network bonds.

3. Managing DNS and DNS Servers

Explain the operation of the Domain Name System (DNS), troubleshoot DNS issues, and configure name servers that are caching-only or that are authoritative for a DNS zone.

4. Managing DHCP and IP Address Assignment

Explain and configure services that automatically assign IPv4 and IPv6 addresses, including DHCP, DHCPv6, and SLAAC.

5. Managing Printers and Printing Files

Configure systems to print to network printers that support the IPP Everywhere protocol, and manage existing print queues on Linux systems.

6. Configuring Email Transmission

Discuss how mail servers operate, and configure a server to use system tools and Postfix to send email messages through an outbound mail relay.

7.Configuring MariaDB SQL Databases

Discuss the basic operation of SQL-based relational databases, perform basic SQL queries for troubleshooting, and be able to set up a simple MariaDB database service.

8. Configuring Web Servers

Provide web content from Apache HTTP Server or Nginx web servers, and configure them with virtual hosts and TLS-based encryption.

9. Providing File-based Network Storage

Provide file-based network-attached storage to clients by using the NFS or SMB protocol.

10. Accessing Block-based Network Storage

Configure iSCSI initiators on your servers to access block-based storage devices provided by network storage arrays or Ceph storage clusters.

Additional Information:

Business Outcome Statement
This course will help your IT staff develop key skills in managing and automating common services that support and are used by your business-critical applications. This can reduce time to deployment, improve reliability, and help ensure architectural compliance, allowing resources to be spent on improving rather than just running your business.
Student Outcome Statement
In this course, you will learn the system administration skills needed to set up and provide key network services that are frequently used by servers and their applications in enterprise data centers. You will gain an understanding of how to manually manage these services, and you will also prepare Ansible Playbooks to automate manual configuration tasks and perform them at scale.

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

training@globalknowledge.qa

www.globalknowledge.com/en-qa/

Global Knowledge, Qatar Financial Center, Burj Doha,Level 21, P.O.Box 27110, West Bay, Doha, Qatar