



# **RH358**

# **Red Hat Services Management and Automation**

# **Course Description**

## 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.

# Prerequisites for this course

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

# **Course Outline**

- 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.