

Red Hat Services Management and Automation with exam

Course code: RH359

Learn how to configure, manage, and scale key services used in datacenters. Red Hat Services Management and Automation with exam (RH359) is designed for IT professionals with some experience managing Linux® systems and want to learn more about how to manage and deploy network services included with Red Hat® Enterprise Linux which are particularly important in modern IT datacenters. You will learn how to install, configure, and manage basic configurations of these services manually, and then use Red Hat Ansible® Engine to automate your work in a scalable, repeatable manner. This course is based on Red Hat Ansible Engine 2.9 and Red Hat Enterprise Linux 8.1. The Red Hat Certified Specialist in Services Management and Automation exam (EX358) is included.

Who is the course for

Linux system administrators, site reliability engineers, 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 8.

What we teach you

In this course, you will learn key system administration skills needed to set up and provide 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.

Required skills

Be a Red Hat Certified Engineer (RHCE) on Red Hat Enterprise Linux 8, or demonstrate equivalent skills in Linux system administration and Ansible automation.

Course outline

Manage network services

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

Configure link aggregation

- Improve the redundancy or throughput of network connections of servers by configuring Linux network teaming between multiple network interfaces.

Manage DNS and DNS servers

- Explain the operation of DNS service, troubleshoot DNS issues, and configure servers to act as a DNS caching nameserver or as an authoritative name server.

Manage DHCP and IP address assignment

- Explain and configure services used for IPv4 and IPv6 address assignment including DHCP, DHCPv6, and SLAAC.

Manage printers and printing files

- Configure systems to print to a network printer that supports IPP Everywhere, as well as manage existing printer queues.

Configure email transmission

GOPAS Praha
Kodáňská 1441/46
101 00 Praha 10
Tel.: +420 234 064 900-3
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 542 422 111
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 248 282 701-2
info@gopas.sk



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

Configure 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.

Configure web servers

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

Optimize web server traffic

- Improve performance of your web servers by using Varnish to cache static content being served and HAProxy to terminate TLS connections and balance load between servers.

Provide file-based network storage

- Deliver simple file-based network shares to clients using the NFS and SMB protocols.

Access 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.