

## Red Hat Services Management and Automation

**Duration: 5 Days    Course Code: RH358    Delivery Method: Virtual Learning**

### Overview:

#### Learn how to configure, manage, and scale key services used in the data center

Red Hat Services Management and Automation (RH358) 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 the modern IT data center. 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.

#### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

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.

### Objectives:

- Provide key network services using software included with Red Hat Enterprise Linux 8, including DNS with Unbound and BIND9, DHCP and DHCPv6, client e-mail transmission, printing service, NFS and SMB protocol file sharing, SQL database service with MariaDB, and web services using Apache HTTPD, nginx, Varnish, and HAProxy.
- Use Red Hat Ansible Engine to automate the manual deployment and configuration tasks covered in this course.
- Configure advanced networking for server use cases, including device teaming.

### Prerequisites:

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

### Follow-on-Courses:

- DO447 - Advanced Automation: Ansible Best Practices
- RH342 - Red Hat Linux Diagnostics and Troubleshooting

## Content:

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| Manage network services                                                                                                                                     | Manage printers and printing files                                                                                                                                     | Optimize web server traffic                                                                                                                                              |
| Discuss and review key tools and skills needed to manage network services.                                                                                  | Configure systems to print to a network printer that supports IPP Everywhere, as well as manage existing printer queues.                                               | 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. |
| Configure link aggregation                                                                                                                                  | Configure email transmission                                                                                                                                           |                                                                                                                                                                          |
| Improve the redundancy or throughput of network connections of servers by configuring Linux network teaming between multiple network interfaces.            | Discuss how mail servers operate, then configure a server to use system tools and Postfix to send email messages through an outbound mail relay.                       | Provide file-based network storage                                                                                                                                       |
| Manage DNS and DNS servers                                                                                                                                  | Configure MariaDB SQL databases                                                                                                                                        | Deliver simple file-based network shares to clients using the NFS and SMB protocols.                                                                                     |
| 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. | 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. | Access block-based network storage                                                                                                                                       |
| Manage DHCP and IP address assignment                                                                                                                       | Configure web servers                                                                                                                                                  | Configure iSCSI initiators on your servers to access block-based storage devices provided by network storage arrays or Ceph storage clusters.                            |
| Explain and configure services used for IPv4 and IPv6 address assignment including DHCP, DHCPv6, and SLAAC.                                                 | Provide web content from Apache HTTPD or Nginx web servers, then configure them with virtual hosts and TLS-based encryption.                                           |                                                                                                                                                                          |

## Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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