

## Red Hat Services Management and Automation with Exam (RH359)

Duration: 5 Days    Course Code: RH359

### 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 package (course + exam) is based on Red Hat Ansible Automation Platform 2.4 and Red Hat Enterprise Linux 9.4 and includes an exam voucher.

**Note :** Starting January 2026 this bundle (Course + Exam) only exists in CR (classroom) if scheduled or Closed course modalities.

If you are targeting a virtual class, please consider RH358LS the new RHLS-course subscription which includes as well an exam voucher.  
Updated Jan2026

### 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:

- After this course participants should be able to:
- Provide key network services using software included with Red Hat Enterprise Linux 9, including:
  - DNS with Unbound and BIND9
  - IPv4 and IPv6 network autoconfiguration with DHCP 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.
- Configure advanced networking for server use cases, including network bonding
- Use 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)
- Take Red Hat free assessment to gauge whether this offering is the best fit for your skills [Red Hat Skills Assessment](#)

### Testing and Certification

- EX358 Red Hat Certified Specialist in Services Management and Automation exam - exam voucher included

### Follow-on-Courses:

- Developing Advanced Automation with Red Hat Ansible Automation Platform (DO374-AU374)
- Red Hat Enterprise Linux Diagnostics and Troubleshooting (RH342)
- RH342 - Red Hat Enterprise Linux Diagnostics and Troubleshooting

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## Content:

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Managing Network Services                                                                                                                                               | Explain and configure services that automatically assign IPv4 and IPv6 addresses, including DHCP, DHCPv6, and SLAAC.                                                   | 8. Configuring Web Servers                                                                                                                    |
| Discuss and review key tools and skills needed to manage network services.                                                                                                 |                                                                                                                                                                        | Provide web content from Apache HTTP Server or Nginx web servers, and configure them with virtual hosts and TLS-based encryption.             |
| 2. Configuring Link Aggregation                                                                                                                                            | 5. Managing Printers and Printing Files                                                                                                                                |                                                                                                                                               |
| Configure and troubleshoot advanced network interface functionality, including network bonds.                                                                              | Configure systems to print to network printers that support the IPP Everywhere protocol, and manage existing print queues on Linux systems.                            | 9. Providing File-based Network Storage                                                                                                       |
| 3. Managing DNS and DNS Servers                                                                                                                                            | 6. Configuring Email Transmission                                                                                                                                      | Provide file-based network-attached storage to clients by using the NFS or SMB protocol.                                                      |
| 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. | Discuss how mail servers operate, and configure a server to use system tools and Postfix to send email messages through an outbound mail relay.                        | 10. Accessing Block-based Network Storage                                                                                                     |
| 4. Managing DHCP and IP Address Assignment                                                                                                                                 | 7. Configuring MariaDB SQL Databases                                                                                                                                   | Configure iSCSI initiators on your servers to access block-based storage devices provided by network storage arrays or Ceph storage clusters. |
|                                                                                                                                                                            | 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. |                                                                                                                                               |

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## Additional Information:

Official course book provided to participants

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## Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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