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## Red Hat Services Management and Automation

**Duration: 4 Days    Course Code: RH358    Delivery Method: Company Event**

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### 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.

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### 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.

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### 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.
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### 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.
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### Follow-on-Courses:

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

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.	

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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