Red Hat Services Management and Automation

Kód kurzu: RH358

Od ledna 2026 je možné za původních podmínek zakoupit pouze prezenční Red Hat školení. Virtuální kurzy (VT) jsou dostupné výhradně v rámci ročního předplatného RHLS Course.Jak si naplánovat virtuální kurz v Red Hat Learning Subscription Course naleznete zde.
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.

Pro koho je kurz určen

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.

Co Vás naučíme

- 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.
- Configure advanced networking for server use cases, including device teaming.
- Use Red Hat Ansible Engine to automate the manual deployment and configuration tasks covered in this course.

Požadované vstupní znalosti

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

Osnova kurzu

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
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
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.

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