

Virtualization and Infrastructure Migration Technical

Course Duration: 24 Hours

Course Code: RH018

1. Course Overview

The **Virtualization and Infrastructure Migration Technical Overview (RH018)** is a free introductory course from **Red Hat** that provides a high-level understanding of **Red Hat Virtualization (RHV)** and **infrastructure migration** concepts. It covers the benefits of virtualization, strategies for migrating workloads from legacy virtualization platforms, and how organizations can modernize their IT infrastructure using **Red Hat solutions**.

This technical overview is ideal for IT professionals who want to explore how Red Hat virtualization technologies and tools can simplify operations, reduce costs, and prepare their infrastructure for **cloud and container adoption**.

2. What You'll Learn?

By the end of this overview, participants will:

- Understand the basics of **virtualization and its role in IT modernization**.
- Learn about **Red Hat Virtualization (RHV)** features and benefits.
- Explore **infrastructure migration strategies** from traditional platforms (e.g., VMware).
- See how Red Hat solutions support a **seamless transition to cloud-native environments**.
- Gain insights into integrating **virtualization with containers and OpenShift**.

3. Target Audience

This overview is designed for:

- **IT decision-makers and managers** exploring infrastructure modernization.
- **System administrators** new to Red Hat Virtualization.
- **Solution architects** planning workload migrations.
- **Developers and engineers** evaluating cloud and container readiness.

4. Pre-Requisites

- No formal prerequisites.
- Basic knowledge of IT infrastructure and virtualization is helpful.

5. Course Content

Module 1: Introduction to Virtualization

- What is virtualization?
- Benefits of virtualization for enterprises

Module 2: Red Hat Virtualization (RHV) Overview

- Features and architecture of RHV
- Comparing RHV with other virtualization platforms

Module 3: Infrastructure Migration Concepts

- Why migrate from legacy virtualization platforms?
- Red Hat tools and strategies for workload migration

Module 4: Modernization with Red Hat Solutions

- Virtualization as a step toward containers and cloud

- Integration with **Red Hat OpenShift**

Module 5: Business Value of Migration

- Cost optimization and licensing benefits
- Increased flexibility and scalability

