Virtualization

At the end of this episode, I will be able to:

1. Identify the benefits and requirements of virtualization.

Exam Objective: Summarize aspects of client-side virtualization.

Description: In this episode, take a look at desktop virtualization and discuss some of the benefits IT has when utilizing virtualization such as sandboxing, test development, application virtualization, as well as resource and security requirements.

- **Purpose** of virtual machines

  - **Sandbox**

    - Creates an isolated environment

    - Great for learning and test development

  - **Application virtualization**

    - Legacy software/OS

- Example: different versions of the same application

- Cross-platform virtualization

- Allows applications built for a specific platform to operate on other platforms

- **Resource requirements**

  - Intel-VT and AMD-V CPUs with virtualization enabled

  - Host machine resources need to be available to host and guest

    - CPU, RAM, storage and memory

  - Hypervisor (Type 1 vs. Type 2)

- **Security requirements**

  - Both virtual machines and the host machines that VMs run on need the same security requirements

  - Password protection

  - Antivirus and signature updates

- Additional Reference Materials

- Not applicable if blank