Welcome to Section 11

Windows Operating System Management

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Download and Install Windows Server

- Create new VM on Oracle VirtualBox

- Download the Windows Server 2016 enterprise trial version

- Install the Windows Server

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Windows System Access

- Access through console
- Access through remote desktop client

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File System and it's Descriptions

- OS store data on disk drives using a structure called filesystem, consisting of files, directories, and the information need to access and locate them

- Filesystem = closet

- There are many different type of FS
    - Windows = NTFS or FAT
    - Linux = ext3, ext4 or xfs
    - MAC = HFS or APFS

User Account Management

- Every machine needs a user account
  - Windows = administrator
  - Linux = root

- There are 2 type of user accounts
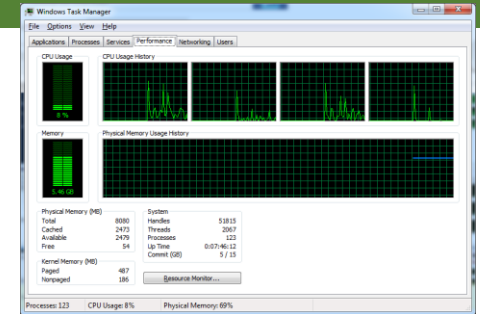 - Local
  - Directory service account

System Resource Monitoring

- What are system resources?

We will learn…

- How to access resources monitor tool

- Identify intensive processes utilizing high resources

- Manage resources.

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Windows Event Logs

- ## What are logs?

- ## Type of logs
  - Hardware
  - Operating system *(Security, Setup etc.)*
  - Application

- ## Log location
  - **C:\Windows\System32\winevt\Logs**

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Server Manager

- Server manager is one of the administrator tool to perform many tasks such as:
  - Add roles
  - Add or remove features
  - Local Server properties
  - Events
  - Services
  - Analyzer
  - Tools menu

We will learn…

- Everything about Server Manager and all the features it has to offer.

System Hardware (Device Manager)

- Hardware is anything inside of your computer or attached to your computer

- A computer can have hardware from different manufacturer

- Knowing your hardware is important to troubleshoot issues
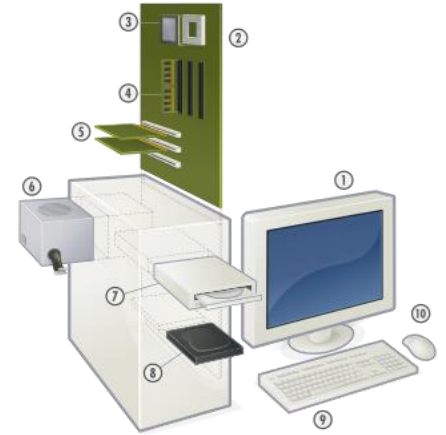
Roles vs. Features

- **Roles:**
A server role is a set of software programs that, when they are installed and properly configured, lets a computer perform a specific function for multiple users or other computers within a network

- **Role services:**
are software programs that provide the functionality of a role. When you install a role, you can choose which role services the role provides for other users and computers in your enterprise

- **Features:**
are software programs that, although they are not directly parts of roles, can support or augment the functionality of one or more roles, or improve the functionality of the server, regardless of which roles are installed.

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Domain Controller

- Domain is an area of territory owned or controlled by a ruler or government.

- Kingdom of resources

- Domain controller controls major group services such as:
  - User activation (AD)
  - DNS
  - Print services
  - File system replication
  - Windows Time Service
  - DHCP.

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Domain Controller vs. Active Directory

- Domain Controller (DC) is a main server that serves Active Directory (AD) service