

4.0 Virtualization and Cloud Computing

- 4.1 Explain virtualization concepts.
 - · Purpose of virtual machines
 - Sandbox
 - Test development
 - Application virtualization
 - Legacy software/OS
 - Cross-platform virtualization
 - Requirements
 - Security
 - Network
 - Storage

- · Desktop virtualization
- Virtual Desktop Infrastructure (VDI)
- Containers
- Hypervisors
- Type 1
- Type 2

- 4.2 Summarize cloud computing concepts.
 - · Common cloud models
 - Private cloud
 - Public cloud
 - Hybrid cloud
 - Community cloud
 - Infrastructure as a service (laaS)
 - Software as a service (SaaS)
 - Platform as a service (PaaS)

- Cloud characteristics
- Shared resources vs. dedicated resources
- Metered utilization
 - Ingress/egress
- Elasticity
- Availability
- File synchronization
- Multitenancy

