



# 4.0 Virtualization and Cloud Computing

## 4.1 Summarize cloud-computing concepts.

- **Common cloud models**
    - Private cloud
    - Public cloud
    - Hybrid cloud
    - Community cloud
    - Infrastructure as a service (IaaS)
    - Software as a service (SaaS)
    - Platform as a service (PaaS)
  - **Cloud characteristics**
    - Shared resources
    - Metered utilization
    - Rapid elasticity
    - High availability
    - File synchronization
  - **Desktop virtualization**
    - Virtual desktop infrastructure (VDI) on premises
    - VDI in the cloud
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## 4.2 Summarize aspects of client-side virtualization.

- **Purpose of virtual machines**
  - Sandbox
  - Test development
  - Application virtualization
    - Legacy software/OS
    - Cross-platform virtualization
- **Resource requirements**
- **Security requirements**