



# 4.0 Virtualization and Cloud Computing

## 4.1 Compare and contrast cloud computing concepts.

- **Common cloud models**
  - IaaS
  - SaaS
  - PaaS
  - Public vs. private vs. hybrid vs. community
- **Shared resources**
  - Internal vs. external
- **Rapid elasticity**
- **On-demand**
- **Resource pooling**
- **Measured service**
- **Metered**
- **Off-site email applications**
- **Cloud file storage services**
  - Synchronization apps
- **Virtual application streaming/ cloud-based applications**
  - Applications for cell phones/tablets
  - Applications for laptops/desktops
- **Virtual desktop**
  - Virtual NIC

## 4.2 Given a scenario, set up and configure client-side virtualization.

- **Purpose of virtual machines**
- **Resource requirements**
- **Emulator requirements**
- **Security requirements**
- **Network requirements**
- **Hypervisor**