



Australian Government

Assessment Requirements for ICTNWK420 Install and configure virtual machines

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 4.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements and performance criteria of this unit; including evidence of the ability to:

- Identify one virtualisation solution for the organisation including the identification of applicable guidelines or policies, benefits and detriments and currently available software
- Interpret organisational needs to determine technical requirements of virtualisation solution once
- Install and configure virtualisation software to accommodate organisational needs once
- Install, configure, and test the functionality of two virtual machines, including evidence of the ability to:
 - backup virtual machine state on shutdown
 - restore virtual machine state on start up
 - backup and restore a virtual hard drive and software configuration files for virtual machine
- Configure and test the functionality of a virtual network for the two virtual machines, including the ability to:
 - configure internet protocol (IP) addresses to match selected network configuration
 - configure virtual network as host only, bridged, and network address translation (NAT) configurations
 - configure services to operate under current network configuration

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit. This includes:

- Government and industry policies and guidelines related to virtualisation
- Technologies and processes relating to virtualisation
- Tools and software applications for virtual machine management
- Configuration of software applications required to manage virtual machines

- Configuration requirements for the integration of virtual machines into an existing network design

Assessment Conditions

Skills must be demonstrated in a workplace or simulated environment where conditions are typical of those in an ICT working environment or ICT workplace. This includes:

- Site or prototype where virtual machine environments are to be implemented
- Information relating to organisational policies and procedures and structures
- Current and future user needs relating to desktop and server environments
- Network technical requirements
- Networked computers
- Individual user to clarify and confirm requirements
- Software to support implementation of virtual machines.

Assessors of this unit must satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guides are available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>