



Australian Government

ICTNWK525 Configure an enterprise virtual computing environment

Release: 1

ICTNWK525 Configure an enterprise virtual computing environment

Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to develop and implement virtualisation technologies, with the goal of providing a more sustainable information and communications technology (ICT) environment.

It applies to individuals working as senior networking staff responsible for increasing the sustainability of an organisation, by using virtualisation technologies.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Networking

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to configure the virtual environment	1.1 Obtain the technical specifications and system requirements from virtualisation software vendors 1.2 Review the environmental requirements for installing the virtualisation software
2. Install and configure the support services	2.1 Install and configure the required services and ports, according to virtualisation software vendors 2.2 Install and configure virtualisation client and server management software, according to the enterprise requirements 2.3 Install, configure and manage environmental requirements to

ELEMENT	PERFORMANCE CRITERIA
	ensure that virtual machines function 2.4 Configure virtual machines, using remote client management software
3. Design and configure the virtual network	3.1 Plan and design the virtual network, according to client needs 3.2 Install and configure the virtual networks 3.3 Verify the functionality of virtualisation network, according to the enterprise requirements

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Reading	1.1, 1.2, 3.1, 3.3	Recognises and interprets technical, manufacturer and organisational documentation, to determine and confirm job requirements
Writing	1.1, 1.2, 3.1	- Prepares documentation expressing ideas, explores complex issues, and is constructed logically, succinctly and accurately - Writes and edits computer code, and technical data, ensuring the correct syntax and accuracy
Navigate the world of work	1.2, 2.2	Takes full responsibility for identifying and considering the relevant organisational protocols and policies for designing, configuring and managing virtual networks in a virtual environment
Interact with Others	1.1, 3.1, 3.3	- Collaborates with others, sharing information to build strong work groups - Elicits feedback and provides feedback to others
Get the work done	1.1, 1.2, 1.3, 2.1-2.4	- Demonstrates a sophisticated understanding of the principles, concepts, language and practices associated with the digital world - May operate from a broad conceptual plan, developing the operational detail in stages, regularly reviewing priorities and performance during implementation, identifying and addressing any issues - Actively identifies systems, devices and applications with

		the potential to meet current and/or future needs • Responds intuitively to problems requiring immediate resolution, using understanding of the context to recognise anomalies and deviations from normal expectations, in a virtualised machine environment
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Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTNWK525 Configure an enterprise virtual computing environment	ICANWK525B Configure an enterprise virtual computing environment	Updated to meet Standards for Training Packages.	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for ICTNWK525 Configure an enterprise virtual computing environment

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Performance Evidence

Evidence of the ability to:

- obtain the visualisation specifications from vendors, and compare them with the environmental requirements
- install, configure and test, virtual machines
- manage the environmental requirements
- install and use software tools.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- identify and summarise, current government and industry policies, and guidelines, related to the development of sustainable information and communication technology (ICT) environments
- describe the current technologies, and processes, designed to produce a sustainable ICT environment
- outline the available tools and software applications required to manage virtual machines
- explain the configuration of software applications required to manage virtual machines
- explain the configuration required to integrate virtual machines into the existing network design
- outline the structure, function and business organisation of the client.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in networking, and include access to:

- a site or prototype where virtual machine environments may be implemented
- the network's technical requirements
- industry relevant virtualisation software.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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