



Australian Government

ICTNWK420 Install and configure virtual machines

Release: 1

ICTNWK420 Install and configure virtual machines

Modification History

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

Application

This unit describes the skills and knowledge required to select and implement virtualisation solutions to meet organisational needs in an information and communications technology (ICT) environment.

It applies to individuals who work in the network area of organisations and are responsible for the virtualisation of desktop and server operating systems.

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. Identify options and select virtualisation solution | 1.1 Research and determine government and industry guidelines and policies for use of desktop and server virtualisation 1.2 Determine and document current and future requirements of organisations based on guidelines, policies and organisational structure 1.3 Identify benefits and detriments of virtualisation of desktop and server environments relevant to needs of organisation 1.4 Identify available features of current virtualisation software relevant to needs of organisation 1.5 Select virtualisation solutions based on current and future needs of organisation |

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| | 1.6 Seek and obtain feedback on selected virtualisation solution from organisation and incorporate feedback into selected virtualisation solutions |
| 2. Prepare for, install and configure virtualisation technology | <p>2.1 Identify, clarify and document technical requirements of organisation relating to virtualisation technologies including virtual machines, virtual networks, and virtualisation software</p> <p>2.2 Identify and document hardware, software, network, and infrastructure components required to be installed and configured to meet technical requirements</p> <p>2.3 Seek and obtain feedback on technical requirements and documented components from organisation and incorporate feedback into technical requirements and documented components</p> <p>2.4 Install and configure software to provide support for virtualisation of desktop and server operating systems according to technical requirements</p> <p>2.5 Configure virtualisation software application features to accommodate required functionality according to organisational needs</p> |
| 3. Install, configure and test virtual machines | <p>3.1 Install and configure virtual machines according to technical requirements</p> <p>3.2 Install and configure virtual networks according to technical requirements</p> <p>3.3 Test functionality of installed virtual machines and virtual networks against technical requirements and rectify errors</p> |

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

| Skill | Description |
|----------------------------|---|
| Reading | <ul style="list-style-type: none"> Recognises and interprets industry and government guidelines to determine organisational requirements |
| Oral Communication | <ul style="list-style-type: none"> Elicits information and organisational needs by using listening and questioning techniques |
| Navigate the world of work | <ul style="list-style-type: none"> Complies with explicit organisational policies and procedures |
| Get the work | <ul style="list-style-type: none"> Determines job priorities, resources and equipment, and works |

| | |
|------|---|
| done | <p>logically and systematically to undertake clearly defined and familiar tasks</p> <ul style="list-style-type: none"> • Takes responsibility for routine decision making by selecting from a range of predetermined options in routine situations, identifying and taking some situational factors into account • Initiates standard procedures when adapting configuration procedures, depending on differing operational contingencies, risk situations and environments • Understands key principles and concepts underpinning the design and operation of digital systems and tools, and applies these when troubleshooting existing technology and when seeking to understand the potential impact of new technology • In familiar contexts, responds promptly and intuitively to problems involving virtualised machine environments requiring immediate attention |
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Unit Mapping Information

| Code and title current version | Code and title previous version | Comments | Equivalence status |
|--|---|---|--------------------|
| ICTNWK420 Install and configure virtual machines | ICTNWK402 Install and configure virtual machines for sustainable IT | Edits to elements and assessment requirements to clarify intent. Typographical edit to title to clarify intent of unit. | Equivalent unit |

Links

Companion Volume Implementation Guides are available from VETNet -

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