



**Australian Government**

**Assessment Requirements for ICTNWK602  
Plan, configure and test advanced  
server-based security**

**Release: 1**

# Assessment Requirements for ICTNWK602 Plan, configure and test advanced server-based security

## Modification History

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

## Performance Evidence

Evidence of the ability to:

- identify network service security vulnerabilities and appropriate controls
- plan, design and configure a secure network authentication service
- secure a wide range of network services to ensure server and data security, including:
  - dynamic name system (DNS)
  - web and proxy
  - mail
  - file transfer protocol (FTP)
  - firewall
- implement cryptographic techniques
- monitor the server for security breaches.

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:

- explain auditing and penetration testing techniques
- summarise best practice procedures for implementing backup and restore
- outline cryptographic techniques
- clarify the procedures for error and event logging and reporting
- explain intrusion detection and recovery procedures
- outline network service configuration, including:
  - DNS
  - dynamic host configuration protocol (DHCP)
  - web

- mail
- FTP
- server messages block (SMB)
- network time protocol (NTP)
- proxy
- summarise network service security features, options and limitations
- outline network service vulnerabilities
- summarise operating system help and support utilities
- describe planning, configuration, monitoring and troubleshooting techniques
- outline security protection mechanisms
- summarise security threats and risks
- explain server firewall configuration
- explain server monitoring and troubleshooting tools and techniques, including network monitoring and diagnostic utilities
- summarise user authentication and directory services.

## 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 the networking industry, and include access to:

- a site where server installation may be conducted
- relevant server specifications
- cabling
- networked (LAN) computers
- server diagnostic software
- switch
- client requirements
- WAN service point of presence
- workstations
- relevant regulatory documentation that impacts on installation activities.

Assessors must satisfy NVR/AQTF assessor requirements.

## Links

Companion Volume implementation guides are found in VETNet -

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