



**Australian Government**

# **Assessment Requirements for ICTCLD504 Improve cloud-based infrastructure**

**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 6.0. |

## Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, and to:

- assess, identify and improve cloud architecture on a cloud platform, according to design decisions
- deploy, test and measure at least one architecture design, against architecture principles, metrics and business goals.

In the course of the above, the candidate must:

- determine performance metrics and business goals
- use cloud management consoles, software development kits or command line tools
- create documentation of deployment and testing steps.

## Knowledge Evidence

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

- industry technology standards used in cloud computing solutions and services
- industry standard hardware and software products, their general features, capabilities and application
- methods and impacts of cloud adoption as they relate to IT system changes
- design principles for cloud applications
- migrating principles for cloud applications
- use of object storage for static web sites
- testing and debugging techniques, including techniques to avoid single point failures
- tools and uses of security layers and security-focused content within cloud services
- features of cloud services, including techniques to improve security, reliability, scalability and costs

- techniques, methods and industry standard metrics and business goals used to monitor performance of cloud resources.

## Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- cloud vendor service provider
- cloud managed database service
- cloud management console, software development kit or command line tools
- integrated development environment (IDE)
- specific requirements and industry standards, organisational procedures and legislative requirements, including business and functionality requirements, as required
- internet and web browser
- secure shell (SSH) or remote desktop protocol (RDP) client to connect to cloud-hosted instances.

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

## Links

Companion Volume Implementation Guide is found on VETNet -

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