



Australian Government

Assessment Requirements for ICTCLD505 Implement cloud infrastructure with code

Release: 1

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Modification History

| Release | Comments |
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| 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:

- deploy, update and remove cloud infrastructure using cloud platform templates
- create, run and update at least one own template required to deploy and modify cloud infrastructure.

In the course of the above, the candidate must:

- use cloud management console, cloud software development kits or command line tools
- create user documentation.

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, including storage technology
- benefits of deploying infrastructure as code compared to manual provisioning in a console
- different infrastructure as code services that can be used on a cloud platform
- syntax of selected infrastructure as code service templates
- tooling required to execute cloud infrastructure templates
- testing and debugging techniques, including common issues and errors relating to deploying cloud infrastructure as code
- parameterisation of templates to support configuration and code reuse
- industry standard practices to define infrastructure as code
- uses and methods to create, manage, provision and update cloud resources and templates
- techniques, methods and industry standard metrics used to leverage cloud platform capabilities and deploy and manage templates.

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 vendor or 3rd party infrastructure as code service
- specific requirements and industry standards, organisational procedures and legislative requirements, including business and functionality requirements, as required
- information and data sources required to design and implement cloud infrastructure
- integrated development environment (IDE)
- internet and web browser
- secure shell (SSH) or remote desktop protocol (RDP) client to connect to cloud-hosted instances
- cloud management console, cloud software development kit or command line tools.

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>