



Australian Government

Assessment Requirements for ICTCLD401 Configure cloud services

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:

- build at least one simple virtual network capable of supporting a workload using cloud services
- configure compute, storage, database and autoscaling resources within virtual network
- conduct simple tests to confirm access to resources.

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
- principles and functions of cloud computing solutions and technologies, including:
 - Infrastructure as a Service (IaaS)
 - Platforms as a Service (PaaS)
 - Software as a Service (SaaS)
- different cost models and cloud economic theories as they apply to different cloud services and non-cloud services, and benefits to each
- functions, features and uses of different virtual machine, networking and scaling options, including:
 - virtual machine sizing including CPU, memory, storage and network bandwidth
 - load balancing and autoscaling
 - performance monitoring and alarms
 - storage backups and lifecycle
 - virtual networks and traffic routing
- functions, benefits and differences of:

- vertical and horizontal scaling
- virtual and physical machines
- relational, data warehouse and no SQL databases
- self-hosted, managed and cloud-native database solutions
- storage options including:
 - block storage
 - object storage
 - archive storage
 - network filesystems
- user, business and vendor responsibilities according to shared security responsibility models
- user access protocols and policies according to organisation hierarchy and job function
- security policies, protocols and mechanisms as they relate to cloud technologies and methodologies including:
 - securities as it applies to limiting network traffic within virtual networks
 - security responsibilities as it applies to different work functions and user access
- purpose of domain name system (DNS) required to connect remote servers when web browsing
- functions, uses and differences of cloud models, including:
 - on-premise and private cloud
 - hybrid cloud
 - public cloud.

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
- internet and web browser
- data to gather information from to determine output and user requirements, including user access and business protocols.

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 VETNe -

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