



Australian Government

ICTCLD508 Manage infrastructure in cloud environments

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.

Application

This unit describes the skills and knowledge required to configure, monitor, maintain and update resources running in a cloud environment.

It applies to cloud engineers, cloud systems administrators and those who work within cloud computing environments and responsible for the day-to-day running of cloud resources.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Unit Sector

Cloud computing

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to manage cloud resources	1.1 Determine complex cloud computing technology resources according to business requirements, needs and cloud environment 1.2 Identify and confirm business purpose, use and plan of different cloud resources according to business needs and efficiencies
2. Inventory and change management of cloud resources	2.1 Identify tagging policy and categorise resources according to business needs 2.2 Update resources according to tagging policy and build and maintain inventory of cloud resources 2.3 Generate report of resources based on category 2.4 Conduct maintenance with resources in specific category 2.5 Document resource tagging and inventory management

ELEMENTS	PERFORMANCE CRITERIA
	according to business needs
3. Audit and change management of cloud resources	<ul style="list-style-type: none">3.1 Identify configuration policy for cloud resources according to business needs3.2 Enable logging of cloud-based events3.3 Collect and track changes to cloud resource configuration3.4 Apply configuration policy to resource and alert for non-conformance3.5 Utilise audit logs and determine details and changes from configuration3.6 Document cloud audit and change management configuration
4. Monitoring, logging and alarming	<ul style="list-style-type: none">4.1 Define capacity limits for cloud resources according to business needs4.2 Configure metrics and alarm when limits are exceeded4.3 Capture and store resource and system logs4.4 Test capacity to trigger alarms and review logs of incident4.5 Manage capacity of resource to remove alarm4.6 Document run book for actions according to configured alarm
5. Manage storage lifecycle	<ul style="list-style-type: none">5.1 Identify data retention policy according to business needs and cloud resource5.2 Configure storage to automatically comply with retention policy5.3 Confirm that retention policy is applied to target storage5.4 Document storage configuration according to business needs
6. Monitor and track complex cloud resources	<ul style="list-style-type: none">6.1 Document mechanisms to automate tasks as required6.2 Finalise user documentation and submit to required personnel as required

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
Numeracy	<ul style="list-style-type: none">Analyses and synthesises highly embedded mathematical information in a broad range of tasks and texts

SKILL	DESCRIPTION
Reading	<ul style="list-style-type: none">Organises, evaluates and critiques ideas and information from a range of complex texts
Writing	<ul style="list-style-type: none">Prepares complex documentation detailing analysis, work performed and results using succinct language and logical structure
Planning and organising	<ul style="list-style-type: none">Identifies the key factors that impact on decisions and their outcomes, drawing on experience, competing priorities, and decision-making strategies, where appropriatePlans strategic priorities and outcomes within a flexible, efficient and effective context, in a diverse environment exposed to competing demands
Self-management	<ul style="list-style-type: none">Develops and implements strategies that confirms that the organisational policies, procedures and regulatory requirements are being met

Unit Mapping Information

No equivalent unit. New unit.

Links

Companion Volume Implementation Guide is found on VETNet -

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