



Australian Government

ICTCLD509 Manage cloud identity and access

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with the Information and Communications Technology Training Package Version 8.0. Newly created unit of competency to address in-demand skills needs.

Application

This unit describes the skills and knowledge required to securely authenticate and maintain cloud-based identity and access management (IAM) systems in organisations. It includes developing, implementing and evaluating secure cloud computing solutions.

The unit applies to individuals who may work in roles such as security engineers, cloud developers and architects, and information security officers. It also includes individuals responsible for managing operational concerns across cloud environments.

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

Unit Sector

Cloud computing

Elements and Performance Criteria

ELEMENT	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 identity and access	1.1 Confirm work brief and tasks according to organisational policies and procedures 1.2 Identify required protocols, platforms and networks in cloud-based infrastructure and confirm interoperability with organisational systems 1.3 Review password and multi-factor authentication requirements 1.4 Discuss limitations of existing cloud-based IAM configuration with required personnel

ELEMENT	PERFORMANCE CRITERIA
	1.5 Confirm new IAM entities that will be required to complete work brief 1.6 Identify required protocols, platforms and networks in cloud-based infrastructure and confirm interoperability with organisational systems
2. Create and secure new IAM users	2.1 Authenticate cloud-based IAM service used by organisation according to work brief 2.2 Modify password policy and enforce password complexity and expiry according to work brief 2.2 Define updated security policies and roles according to work brief 2.3 Create user accounts and associate with required permissions following organisational naming conventions 2.4 Securely share user access credentials with organisational staff 2.5 Enforce multi-factor authentication according to work brief 2.6 Confirm that required staff can access specified account and reset credentials according to organisational processes and procedures
3. Configure machine resource permissions	3.1 Identify cloud-based machine resources requiring IAM permissions according to work brief 3.2 Define and confirm required security policies meet organisational needs 3.3 Check that machine resources have required permissions 3.4 Apply permissions to identified machine resources according to work brief 3.5 Confirm that machine can be accessed by other resources and services as per work brief 3.6 Document changes according to organisational policies and procedures
4. Periodically review IAM configuration	4.1 Track members, activities and permissions in centralised location 4.2 Review activity and recommend permission changes 4.3 Delete permissions and entities that are no longer required 4.4 Document changes according to organisational policies and procedures

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
Reading	Organises, evaluates and critiques ideas and information from a range of complex texts
Writing	Prepares documentation using succinct language and logical structure
Planning and organising	Identifies key factors that impact on decisions and their outcomes, drawing on experience, competing priorities, and decision-making strategies
Self-management	Develops and implements strategies that confirm that organisational policies and procedures are being met

Unit Mapping Information

No equivalent unit. Newly created unit.

Links

Companion Volume Implementation Guide is found on VETNet - -

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