

Specification of Competency Standards
for the Information & Communications Technology Industry
Unit of Competency

Functional Area - Content Security

Title	Implement cloud disaster recovery strategy
Code	108065L4
Description	This unit of competency applies to all Digital Media Technology (DMT) practitioners responsible for digital content security. Just as with traditional disaster recovery (DR), there is not a single blueprint for disaster recovery in the cloud. Every organisation is unique in the applications it runs, and the relevance of the applications to its business. Therefore, it is essential that a well implemented cloud DR strategy to ensure the organisation business and reputation is not affected.
Level	4
Credit	3
Competency	<p>Performance Requirements</p> <p>1. Knowledge for implementing cloud disaster recovery strategy</p> <ul style="list-style-type: none"> • Possess good project management • Possess good coordination and communication skills, ranging from writing basic instructions to handle vendors and senior managements • Possess in-depth skills in implementation of DR projects • Possess good knowledge of information security and business continuity • Possess in-depth knowledge of traditional DR and cloud DR technologies • Possess good knowledge of DR implementation and monitoring tools <p>2. Implement cloud disaster recovery strategy:</p> <ul style="list-style-type: none"> • Comprehend the organisation's DR strategies and identify the DR protection requirement by developing a "DR mapping" of critical systems/application/contents with list of actions, including: <ul style="list-style-type: none"> ○ Component (system/application/contents) ○ Threads/Risks ○ Response steps ○ RTO (Recovery Time Objectives) and Recovery Point Objectives (RPO) ○ Recovery strategy ○ Recovery steps • Identify suitable cloud DR services providers and formulate RFP (Request for Proposal) for the provisioning of Cloud DR services with no loss of contents • Develop service provider evaluation/selection criteria template. Such as: <ul style="list-style-type: none"> ○ Security mechanism ○ How it can ensure data durability, reliability and availability ○ Supportability ○ How easy to exit (transfer data out on terminating service) ○ Performance ○ Synchronisation/load balancing function on Multi-DR vendor strategy ○ Cost • Summarise the returned RFP and make recommendation during the DR services provider selection process • Develop Internet bandwidth management plan to minimise cloud service provider charges but ensuring sufficient network data bandwidth to meet business needs of general operational and DR use • Work with services provider to provision the DR service and develop testing and verification tools that determines status after a DR is performed • Develop procedures and guidelines to handle different recovery scenarios. For example:

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	<ul style="list-style-type: none"> ○ Server or component loss ○ Multisystem loss ○ One whole cloud infrastructure loss ● Schedule training sessions and DR drills with the result that can contribute to enhancement of the DR plan <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> ● Committed to ensure the organisation's business continuity is not compromised by system failures or contents lost ● Apply industry best practices when implementing cloud DR strategy
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> ● Develop a comprehensive DR mapping of all the critical systems recovery requirements and identify the most suitable vendor to commission the required service ● Coordinate all parties to implement the DR services and demonstrate that in emergencies various cloud components (systems, applications, contents) or whole cloud infrastructure can be recovered within the RTO/RPO requirements with no security risks or affecting the business ● Develop procedures and guidelines that enable all stakeholders, involved with DR process, understand precisely their roles and actions to take during a real emergency or drill
Remark	