

# Assessment Requirements for ICTSAD613 Install and configure container orchestration services

Release: 1

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## **Modification History**

Release	Comments
Release	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, including evidence of the ability to:

- configure container orchestration services on at least two host computers or virtual machines
- create and manage at least two containers using at least three different metrics to measure requests and traffic data.

In the course of the above, the candidate must:

- confirm clusters scale out and in required by demand changes and business needs
- document work.

### **Knowledge Evidence**

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- features and functions of operating systems
- continuous integration and continuous delivery/deployment methodology, processes and principles
- network protocols including:
  - network communications protocol
  - TCP/IP (transmission control)
  - internet protocol
- · tools and features of registries, command line interface and text editor
- software development life cycle (SDLC)
- basic principles of container orchestration services:
  - pods/swarms
  - nodes

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- services
- virtual machines and containers
- container dependencies
- basic principles of:
  - computer hardware, networking, operating system, database management systems, cloud solutions and components
  - applications
  - database-management systems
  - open-source development tools
  - HTTP
- organisational business needs relating to the use and deployment of containers, including cost constraints
- data flow charts applicable to installing and configuring container orchestration services
- data and metrics of user traffic to sites and applications, including:
  - RAM (random access memory)
  - CPU
  - Network traffic
- · different methods of monitoring services, including:
  - manually
  - different organisational levels of responsibility relating to application functions.

#### 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:

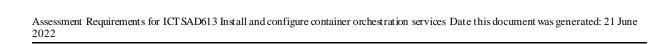
- the internet, including connectivity
- required hardware, software and applications
- vendor products relating to containerisation technology
- container orchestration service
- load testing application
- text editor
- user command interface (command prompt).

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

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