## Virtualisation

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| *SMS Code* | IN720001 | *Directed Learning Hours* | 60 |
| *Level* | 7 | *Workplace or Practical Learning Hours* | nil |
| *Credits* | 15 | *Self-Directed Learning Hours* | 90 |
| *Prerequisites* | IN719001 | *Total Learning Hours* | 150 |

## Aims

Students will gain experience in planning, implementing and managing a variety of virtualised environments using current industry methods and tools.

## Learning Outcomes

At the successful completion of the course, students will be able to:

1. Create and manage containers to perform various IT functions;
2. Create and operate an online service using managed virtualisation systems;
3. Plan and create a privately hosted cloud service platform;
4. Create and operate network services on a private cloud platform.

## Indicative Content

* Containers and repositories
* Container orchestration
* Managed cloud services (e.g., AWS)
* Networking in virtualised environments
* Private cloud systems (e.g., OpenStack)

## Assessment

|  |  |  |
| --- | --- | --- |
| **Assessment Activity** | **Weighting** | **Learning Outcomes** |
| Project | 80% | All |
| Exam | 20% | All |

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