

Project Purpose

This project involves designing and writing a backend to Terraform, an off the shelf virtual machine orchestration and management tool, to allow deployment and management of virtual machines on Endace's products by terraform on a large scale.

Key Responsibilities

Technical

- Work with a project manager to define functionality, scope milestones and interact with other teams within the business
- Research and become familiar with Terraform and DOCK
- Investigate the approaches needed to best create a backend for Terraform (including creating new APIs in Endace's operating systems)
- Design and implement a new backend to Terraform for use with Endace's products
- Provide examples of Terraform deployments and management of multiple VMs across multiple hosts in parallel
- Prepare documentation to support the project including, review, analysis of data, and an end report

Organization

- Complete administrative tasks in an accurate and timely manner
- Comply with and ensure safe working practices of self and others in accordance with Health and Safety Procedures
- Observe and comply with developing policies procedures, strategy and quality management systems
- Positively support effective communication, provide constructive feedback
- Support and promote Endace's overall organizational vision, values and culture
- Assist with the selection of approaches, methods and/or services as required
- Any other reasonable duties as required

Competency Profile

Technical

- A specialisation in Computer Science, Software Development/Engineering
- Understanding of API's
- A sound understanding of Linux
- Development experience with C, C++, Python and/or Go
- A understanding of networking basics

Core

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| Interpersonal Skills | Understands the attitudes, interests, needs and perspectives of others. Listens carefully and non-defensively to various points of view whether or not they agree with these. |
| Achievement Drive and Energy | A drive for success and persevere results. Is action oriented and pursues things with energy and drive. Dedicated, committed, enthusiastic, positive and motivated. |
| Planning, Organising and Prioritising | Undertake set work plans that have localised impact. Keeps a view of department priorities. |

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| Communication Skills | Able to communicate logically, clearly, effectively and confidently at all levels. Listens intently and ensures other party feels they have been heard and understood. |
| Tolerance to Ambiguity | Is able to draw together conclusions from incomplete evidence and data seeking guidance if required. |

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| Date: | July 2020 | Project: | Terraform for Large Scale VM Deployment |
| Title: | Engineering Intern | Level: | Intern |
| Position Reference: | 2020/2021 Internships | Employment Status: | Fixed Term |
| Department: | Software, Engineering | Hours: | Fulltime |
| Physical Location: | Hamilton | Budget Level: | NA |
| Responsible to: | Project Manager | Team Leadership: | Nil |