**Project Definition**

|  |  |
| --- | --- |
| Background | Objectives |
| The adoption of Docker, IaC and immutable infrastructure principles dramatically changes the infrastructure layout for CD. The security of Docker and the new environments based on Docker needs to be addressed, as previous methods of OS and network security become less relevant/effective. | The Project Should allow:   * Docker base images secured and tested. * OS base images secured and tested. * Docker images from development teams tested for introduced security flaws. * Platform testing/monitoring for security (TBC) issues. * Reporting/Dashboarding on the above. |
| Desired Outcomes | Project Scope & Exclusions |
| Create a framework for the security of Docker images and the environments in which they sit, including policies, procedures and automatic testing, such that we can have confidence the security of the deployed Docker images and the environments in which they operate. | The project scope is the creation of a security framework for CD, this should be automatic in implementation and testing, and should be woven through the deployment framework at every appropriate level. |
| Constraints & Assumptions | Project Tolerances |
| * A maximum of two Associate Devops Engineers will be assigned full time. * The project will run for 4 months. * A Devops Engineer or Senior Devops Engineer will be available for consultation and approval. * Technology must comply with CD SRE standards, and new technology must receive managerial approval. * All pertinent CD SRE policies and procedures must be followed. * Organisation of work will be done via Scrum. | The Project goes into exception when there it is more than a week (5 working days) behind schedule. |
| Users & Stakeholders | Interfaces |
| Primary Stakeholder is CD SRE, who will be represented in the following way:  Product Owner: David Oliveira/Peter Street | Any needed interfaces will be provided through your Supervising Engineer or Scrum-master. |

**Project Product Description**

|  |  |
| --- | --- |
| Composition | Development Skills Requires |
| The project should deliver a framework that is part of every environment that will provide confidence in the security of the CD environments. | N/A |
| Quality Expectations | Acceptance Methods and Acceptance Responsibilities |
| The system is expected to follow the CD SRE IaC principles. The system is expected to function as automatically as possible. The system is expected to be documented such that suitably experienced/qualified engineers are able to use and maintain it with reverse engineering it. | The project is complete in one of two scenarios:   1. The technology is found to be unworkable or impractical. 2. The technology module is available for Terraform to use in any non-prod environment. |

|  |  |
| --- | --- |
| Project Approach | The project will be managed in-house in a simple way by the assigned engineers. The project delivery will be done through Scrum. Technology to be guided by your lead engineer and/or CD SRE. |
| Project Management Team Structure | Project Manager: Team (supervised).  Product Owner: David Oliveira Scrum-master: Peter Street/David Oliveira  Supervising Engineer: ?????? |
|  |  |