

# Environments Configuration

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## Overview

This document outlines the GCP cloud environments design for Project Echo.

For a description of Devops environments and how they are used see the Environments Overview document.

## Requirements

### Current Requirements

- A single environment to deploy Project Echo to.

### Future Requirements

- A test environment (probably SIT) to perform QA before deploying infrastructure to production environment
- Production environment

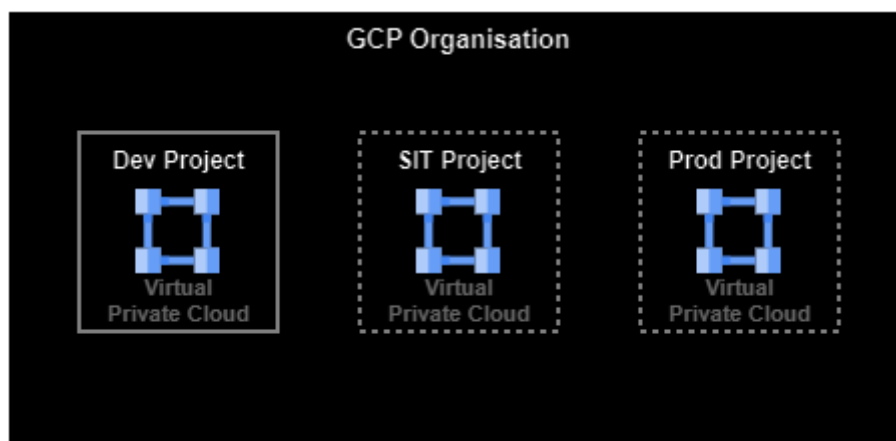
## Proposed Design

The proposed design specifies three environments.

- Dev
- SIT
- Prod

The development environment is where we can start the cloud development of project echo. SIT and prod will be required later when the project further evolves.

Developers' local machines should be considered the sandbox environment.



Within a GCP organisation resources are deployed within projects, and the organisation can have multiple projects.

Resources for an environment can be deployed to a specific project for that environment which will allow for the required separation.

If at any time the environment is no longer required, the project can easily be deleted by an administrator of the organisation.

Within each project a minimum of one virtual private cloud (VPC) will be required. A second may later be deployed to provide separate addressing of tooling resources.

## Reference Links

<https://cloud.google.com/resource-manager/docs/creating-managing-projects>

[https://registry.terraform.io/providers/hashicorp/google/latest/docs/resources/google\\_project.html](https://registry.terraform.io/providers/hashicorp/google/latest/docs/resources/google_project.html)