**Deploying a Fault-Tolerant Microsoft Active Directory Environment**

This lab is part of a series aimed at helping you deploy a highly available Windows architecture on Google Cloud with Microsoft Active Directory (AD), SQL Server, and Internet Information Services (IIS). In this lab you set up a redundant pair of Windows Domain Controllers (DC) with AD using a new Virtual Private Cloud (VPC) network and multiple subnets.

You can also use this lab to learn to set up an AD configuration for use in other architectures. Replicating a remote AD environment to the new Google Cloud-based AD environment will not be covered, although this is possible with Cloud VPN and additional AD configuration.

Objectives

* Create a custom mode VPC network with two subnets spanning two zones.
* Create Windows Server virtual instances and enable AD Domain Services.
* Configure a new domain with Active Directory.
* Join the new Windows Server instances to the new domain.
* Configure firewall rules to allow traffic to the virtual machines.
* Test the configuration.

Architecture

