



# Google Cloud VMware Engine

Quick Start

## Overview

This guide is a step-by-step learning path of videos that will show many of the common tasks within Google Cloud VMware Engine, such as deployment, configuration, migration and disaster recovery. Following through the prescribed video order is suggested, but not necessary.

## Deploy & Configure

Learn how to use the Google Cloud Console to deploy and configure your VMware Engine private cloud.

- **Step 1:** [Private Cloud Creation with Google Cloud VMware Engine](#)
  - Learn how to use the new Google Cloud VMware Engine portal to create a dedicated private cloud with the full VMware vSphere, vSAN, and NSX stack running on bare metal servers in Google data centers around the world.
- **Step 2:** [Google Cloud VMware Engine Portal Overview](#)
  - See a walkthrough of the Google Cloud VMware Engine portal and how administrators can deploy, configure, manage, and monitor private clouds.
- **Step 3:** [Google Cloud VMware Engine Point-to-Site VPN Configuration](#)
  - Learn how to configure a point-to-site VPN gateway for access to vCenter and other resources in the Google Cloud VMware Engine management network.
- **Step 4:** [Create a VM Network with VMware NSX on Google Cloud VMware Engine](#)
  - Learn how to configure a VMware NSX network for your virtual machine workloads on Google Cloud VMware Engine.
- **Step 5:** [DNS Overview for Google Cloud VMware Engine](#)
  - Google Cloud VMware Engine provides easy-to-use DNS profiles so you can integrate your private cloud with on-prem or multi-cloud environments with seamless name resolution.
- **Step 6:** [Configure Active Directory as an Authentication Source for Google Cloud VMware Engine](#)
  - See how to configure your Google Cloud VMware Engine environment to authenticate vSphere administrators with an existing Active Directory infrastructure.
- **Step 7:** [Deploy Workload VMs from Content Library on Google Cloud VMware Engine](#)
  - See how easy it is to create a new virtual machine from a PhotonOS template and learn how to use the Content Library on your private cloud to manage ISO images for quick access for guest OS installation in a new VM.
- **Step 8:** [Configure NSX Distributed Firewall on Google Cloud VMware Engine](#)
  - Google Cloud VMware Engine includes VMware NSX networking. Microsegmentation provided by the Distributed Firewall is ready to use, giving administrators fine-grained control over VM-to-VM connectivity within a single network segment.
- **Step 9:** [Configure the NSX Advanced Load Balancer on Google Cloud VMware Engine](#)
  - Learn how to deploy and configure the VMware NSX Advanced Load Balancer in Google Cloud VMware Engine to load balance a pool of web servers.
- **Step 10:** [Private Cloud Autoscaling with Google Cloud VMware Engine](#)
  - This video shows configuring an autoscale policy for a Google Cloud VMware Engine private cloud, followed by watching the cluster nodes dynamically grow and shrink with fluctuating CPU loads.

## Migrate Workloads

Google Cloud VMware Engine includes VMware HCX, providing fast and easy migration of workloads from on-premises data centers to the cloud.

- **Step 1:** [VMware HCX Connector Deployment for Google Cloud VMware Engine](#)
  - Learn how to deploy the VMware HCX Connector to prepare for migration.
- **Step 2:** [VMware HCX Service Mesh Configuration for Google Cloud VMware Engine](#)
  - Learn how to configure the VMware HCX Service Mesh to ready your hybrid cloud for flexible migration scenarios.
- **Step 3:** [VMware HCX Workload Migration for Google Cloud VMware Engine](#)
  - See how VMware HCX and VMware vMotion enable zero-downtime virtual machine migrations to Google Cloud VMware Engine.

## Disaster Recovery

This video series shows VMware Site Recovery Manager operating between two Google Cloud VMware Engine regions. Administrators will be shown the configuration, operation, and use cases for Site Recovery Manager, including non-disruptive testing and workload migration.

- **Step 1:** [Creating Service Subnets in Google Cloud VMware Engine](#)
  - This video shows how to create a service subnet within Google Cloud VMware Engine. In this example, we configure a service subnet to be used for vSphere Replication with VMware Site Recovery Manager.
- **Step 2:** [Appliance Setup and Configuration - VMware SRM on Google Cloud VMware Engine](#)
  - Learn about the initial setup of VMware Site Recovery Manager within Google Cloud VMware Engine. This video discusses the deployment of the vSphere Replication and Site Recovery Manager appliances, as well as how to prepare the GCVE Solution User accounts.
- **Step 3:** [vCenter Registrations and Site Pairing - VMware SRM on Google Cloud VMware Engine](#)
  - See how register the vSphere Replication and Site Recovery Manager virtual appliances with vCenter, as well as how to create the first site pairing.
- **Step 4:** [Site Pair Mappings and Advanced Settings - VMware SRM on Google Cloud VMware Engine](#)
  - Follow along as the replication, networking, folder, resource, and storage policy mappings are created between the two paired sites.
- **Step 5:** [Configuring Replications, Protection Groups, and Recovery Plans - VMware SRM on Google Cloud VMware Engine](#)
  - Learn how to create replications, protection groups, and recovery plans with VMware Site Recovery Manager within Google Cloud VMware Engine. This video demonstrates how to configure vSphere replication to transfer the data between regions for an example application, while also creating a protection group and recovery plan.
- **Step 6:** [Testing, Migrations, and Disaster Recovery - VMware SRM on Google Cloud VMware Engine](#)
  - In this last video in the series about VMware Site Recovery Manager within Google Cloud VMware Engine, see how easy it is to create recovery plans, test failovers, migrate workloads, and perform a reprotect.

