

[Serverless Computing](https://cloud.google.com/products/serverless/) (https://cloud.google.com/products/serverless/)

[Cloud Run: Serverless Computing](https://cloud.google.com/run/) (https://cloud.google.com/run/)

[Documentation](https://cloud.google.com/run/docs/) (https://cloud.google.com/run/docs/) [Guides](#)

# Setting up Cloud Run for Anthos deployed on VMware

This guide shows how to set up a [GKE On-Prem cluster](https://cloud.google.com/gke-on-prem/) (https://cloud.google.com/gke-on-prem/) with Cloud Run for Anthos deployed on VMware enabled.

Note that installing Cloud Run for Anthos deployed on VMware installs [Knative Serving](https://cloud.google.com/knative/) (https://cloud.google.com/knative/) into the cluster to connect and manage your stateless workloads.

## Prerequisites

1. [Sign in](https://accounts.google.com/Login) (https://accounts.google.com/Login) to your Google Account.

If you don't already have one, [sign up for a new account](https://accounts.google.com/SignUp)

(https://accounts.google.com/SignUp).

2. In the Cloud Console, on the project selector page, select or create a Google Cloud project.

★ **Note:** If you don't plan to keep the resources that you create in this procedure, create a project instead of selecting an existing project. After you finish these steps, you can delete the project, removing all resources associated with the project.

[GO TO THE PROJECT SELECTOR PAGE](https://console.cloud.google.com/projectselector) (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/PROJECTSELECTOR)

3. Make sure that billing is enabled for your Google Cloud project. [Learn how to confirm billing is enabled for your project](https://cloud.google.com/billing/docs/how-to/modify-project) (https://cloud.google.com/billing/docs/how-to/modify-project).

## Setting up gcloud

To set up the `gcloud` command line for Cloud Run for Anthos deployed on VMware:

1. If you haven't already, [install and initialize the Cloud SDK](https://cloud.google.com/sdk/docs/) (<https://cloud.google.com/sdk/docs/>).
2. Set the platform to `kubernetes` and set your default project setting for `gcloud` to the one you just created:

```
gcloud config set run/platform kubernetes
gcloud config set project PROJECT-ID
```

Replace **PROJECT\_ID** with your project ID.

3. Update installed `gcloud` components:

```
gcloud components update
```

4. Install the `gcloud` components:

```
gcloud components install beta
```

## Setting up `kubectl`

If you are already using GKE On-Prem, `kubectl` may already be installed.

If `kubectl` is not installed, you can install it using the command:

```
gcloud components install kubectl
```

## Installing Cloud Run for Anthos deployed on VMware

You can install Cloud Run on an existing GKE On-Prem cluster or while creating or upgrading your cluster:

**ANTHOS 1.2**

ANTHOS 1.1

When *creating or upgrading a cluster*, you can enable Cloud Run for Anthos deployed on VMware on a GKE On-Prem cluster by setting the `cloudrun` configuration in the [config.yaml](https://cloud.google.com/gke-on-prem/docs/reference/config) (<https://cloud.google.com/gke-on-prem/docs/reference/config>) file:

```
cloudrun:  
  enabled: true
```

To install on an *existing* cluster:

1. Create a GKE On-Prem admin and user cluster by following the [GKE On-Prem Installation guide](https://cloud.google.com/gke-on-prem/docs/how-to/installation/install) (<https://cloud.google.com/gke-on-prem/docs/how-to/installation/install>).
2. If you want to avoid specifying the `--kubeconfig` flag when using the `gcloud` or `kubectl` command line, set the `KUBECONFIG` environment variable:

```
export KUBECONFIG=/path/to/kubeconfig
```

Replace */path/to/kubeconfig* with the path to your cluster's kubeconfig files.

3. Install Cloud Run for Anthos deployed on VMware on the cluster:

```
kubectl apply -f https://storage.googleapis.com/cloud-run-for-anthos/install/  
kubectl apply -f https://storage.googleapis.com/cloud-run-for-anthos/install/  
kubectl apply -f https://storage.googleapis.com/cloud-run-for-anthos/install/
```

## Setting up the Cloud Console

When using the Cloud Console, [login to the cluster](https://cloud.google.com/anthos/multicluster-management/console/logging-in)

(<https://cloud.google.com/anthos/multicluster-management/console/logging-in>). If you are using a Kubernetes Service Account, be sure to add the `cluster-admin` role to the Service Account.

## What's next

- [Cloud Run for Anthos deployed on VMware Quickstart](https://cloud.google.com/run/docs/quickstarts/prebuilt-deploy-on-vmware) (<https://cloud.google.com/run/docs/quickstarts/prebuilt-deploy-on-vmware>)
- [Deploying a container on GKE On-Prem](https://cloud.google.com/run/docs/deploying) (<https://cloud.google.com/run/docs/deploying>)
- [Building containers](https://cloud.google.com/run/docs/building/containers) (<https://cloud.google.com/run/docs/building/containers>)
- [Troubleshooting](https://cloud.google.com/run/docs/gke/troubleshooting) (<https://cloud.google.com/run/docs/gke/troubleshooting>)

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