Serverless Computing (https://cloud.google.com/products/serverless/) Cloud Run: Serverless Computing (https://cloud.google.com/run/) Documentation (https://cloud.google.com/run/docs/) Guides

Setting up Cloud Run for Anthos deployed on **VMware**

This guide shows how to set up a <u>GKE On-Prem cluster</u> (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/) into the cluster to connect and manage your stateless workloads.

Prerequisites

- 1. Sign in (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).
- 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/PROJECTSELECT

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).

Setting up gcloud

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

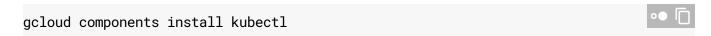
- 1. If you haven't already, <u>install and initialize the Cloud SDK</u> (https://cloud.google.com/sdk/docs/).
- 2. Set the platform to **kubernetes** and set your default project setting for **gcloud** to the one you just created:



Setting up kubect1

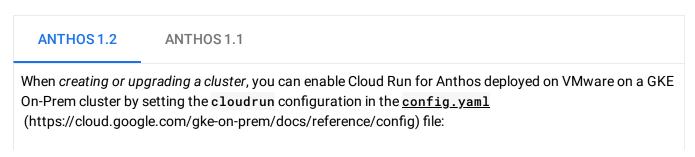
If you are already using GKE On-Prem, kubect1 may already be installed.

If kubect1 is not installed, you can install it using the command:



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:



```
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).

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

Setting up the Cloud Console

When using the Cloud Console, <u>login to the cluster</u>

(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

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

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