Quickstart 2

Quickstart on GCP

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Prerequisites on GCP

Prior to launching Cloudbreak, you must meet these prerequisites.

Cloud SDK

In order to use the Cloud Deployment Manager, you must install the Google Cloud SDK on your machine. The SDK contains the gcloud CLI tool, which is used to deploy Cloudbreak.

For instructions, refer to Installing Google Cloud SDK in the Google Cloud documentation. Make sure to perform all of the steps and validate that the gcloud command works on your computer. Only after validating, proceed to the next step.

Related Information

Installing Google Cloud SDK (GCP)

GCP APIs

In order to launch Cloudbreak from a template, you must enable the Compute Engine API and the Cloud Runtime Configuration API services.

Steps

1. In GCP web console, from the services menu, select APIs & Services:

=	Goode Cloud Platform	SequenceIQ Hadoop as a Service 👻 🔍	λ.		•	٩	0	٠	i (9
Â		EMOVE								
Ŧ	Pins appear here 💿 🗙	rt "SequencelQ Hadoop as a								
<u>ب</u> و,	Cloud Launcher	ect and all of its resources. Learn more M								
50	Billing									
RPI	APIs & Services	Dashboard						0	ш	
Ť	Support >	Credentials	Name	Role	Inhe	ritance				
θ	IAM & admin >	compute@developer.gserviceaccount.com	Compute Engine default service	Editor				11		

2. Click on Enable APIs and services:

≡	Google Cloud Platf	orm 🔹 SequenceIQ Hadoop as a Service	• •	•	۹									5.	ø	0	٠	ł	0
RPI	Dashboard	ENABLE APIS AND SERVICES																	
•	Enabled APIs and s Some APIs and services	ervices are enabled automatically																	
								1 hour	6 hou	#S	12 hours	1 day	2 days	4 days	7 da	ys 1	4 days	30 d	ays
	Traffic	E	rrors							1	Median	latenc	y						

- 3. On this page:
 - In the filter, type "Compute Engine API".
 - Click on the corresponding tile to navigate to the API details



4. Click on the Enable button. Once the API has been enabled you should see:

≡	Google Cloud Platform Sequence	Q Hadoop as a Service 👻	۹			•	0	0	٠	÷ (
÷	API Library										
	Google Compute Engine MANAGE	Engine API api try this api 🖒 🄇 A	S1 enabled	•							

5. Perform the same steps for the "Cloud Runtime Configuration API".

Service account

In order to launch Cloudbreak from a template, you must create a service account that has the following roles.

Google service	Roles to select	Description
Computer Engine	 Compute Image User Compute Instance Admin (v1) Compute Network Admin Compute Security Admin 	This is required.
Storage	Storage Admin	This is required.
Other	Cloud RuntimeConfig Admin	This is required.

If you already have a service account and a JSON key but you need to update the permissions for the account, you can do it from IAM & admin > IAM. If you need to create a service account, follow these steps.

Steps

1. To create a service account In GCP web console, from the services menu, select IAM & admin > Service account:

≡	Google Cloud Platform	SequencelQ Hadoop as a Service	
A	Home		CUSTOMIZE
Ŧ	Pins appear here 💿 🛛 🗙		
Θ	IAM & admin >	المين - ŵ- App Engine	Google Cloud Platform status
٢	Getting started	Quotas Summary (count/sec) Service accounts	All services normal
Ø	Security >	GCP Privacy & Security	→ Go to Cloud status dashboard

2. Click on Create service account:

=	Google Cloud Platform	🛊 SequencelQ Hadoop as a Service 👻 🔍 🔹 🖗
θ	IAM & admin	Service Accounts
+2 1	IAM Quotas	Service accounts for project "SequenceIQ Hadoop as a Service".
앮	Service accounts	A service account
÷	Labels	

- **3.** Provide the following:
 - Enter the Service account name.



Note:

This will determine your service account email. Make a note of this service account email. You will need to provide it when creating a Cloudbreak credential.

- Under Role, select the roles described above.
- Under Key type, select JSON.

Service	e account name 💿	Role 🛞
test-o	cb	Cloud RuntimeCo 🔻
Service	e account ID	Selected
test-o	cb @siq-haas.iam.y mish a new private key wnloads a file that contains the private key. Store the i't be recovered if lost. by type	gs Cloud RuntimeConfig Admin Compute Image User fil Compute Instance Admin (v1) Compute Network Admin Compute Security Admin
En: Alle	(JSON Recommended P12 For backward compatibility with code using the P1 able G Suite Domain-wide Delegation ows this service account to be authorized to access a main without manual authorization on their part. Lear	Project Pro
	cb-kubernetes@siq- haas.iam.gserviceaccount.com	Compute Engine Container Builder DNS
cer	cloud-cost-reducer@siq- haas.iam.gserviceaccount.com	Dataflow
e	58633556797- compute@developer.gserviceaccount.com	Datastore >
		Manage roles

- 4. Click Create.
- 5. The JSON key will be downloaded on your machine. You will need it later to create a Cloudbreak credential.

Browser

In order to access Cloudbreak web UI, you should use one of the following supported browsers: Chrome, Firefox, or Safari.

Launch Cloudbreak from the quickstart template on GCP

Launch Cloudbreak from an Cloud Deployment Manager template by using the following steps. This is the quickstart deployment option.



Attention: As of December 31, 2021, Cloudbreak reached end of support. For more information, see Support lifecycle policy. Cloudera recommends that you migrate your workloads to CDP Public Cloud.

Steps

- **1.** Log in to your GitHub account.
- 2. Run the following command to download the following Hortonworks repo onto your computer and check out the release branch:

```
git clone https://github.com/hortonworks/cbd-quickstart
cd cbd-quickstart
git checkout 2.9.0
```

You may see a message similar to the following:

Note: checking out '2.9.0'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

git checkout -b <new-branch-name>

HEAD is now at c243249... Updated CBD versions in templates to 2.9.0

- 3. On your computer, browse to the cbd-quickstart/gcp.
- 4. Open the vm_template_config.yaml file in a text editor.
- **5.** Edit the file by updating the property values:

Note:

Do not edit any other parameters in the vm_template_config.yaml file.

Parameter	Description	Default
region	Enter the GCP region in which you would like to launch Cloudbreak. You can launch Cloudbreak and provision your clusters in all regions supported by GCP.	us-central-1
zone	Enter the GCP region's zone in which you would like to launch Cloudbreak. You can launch Cloudbreak and provision your clusters in all regions supported by GCP.	us-central1-a
instance_type	Enter the VM instance type.	n1-standard-4
ssh_pub_key	Paste your SSH public key enclosed in quotation marks ("").	"You need to set the SSH_KEY environment variable"
os_user	Enter the name of the user that you would like to use to SSH to the VM.	cloudbreak
user_email	Enter the email address that you would like to use to log in to Cloudbreak.	admin@cloudbreak.com

Parameter	Description	Default
user_password	Enter the password that you would like to use to log in to Cloudbreak.	cloudbreak
service_account_email	Enter the email for the service account created in prerequisites.	You need to set the GCP_ACCOUNT_EMAIL environment variable

- 6. Save the changes on your local machine.
- 7. Run the following command to create a new deployment:

```
gcloud deployment-manager deployments create cbd-deployment --config=/
[$path-to-file]/cbd-quickstart/gcp/vm_template_config.yaml
```

For example:

```
gcloud deployment-manager deployments create cbd-deployment --config=/
Users/testuser/Documents/cbd-quickstart/gcp/vm_template_config.yaml
```

8. Once your deployment has finished, you will see the following:

```
gcloud deployment-manager deployments create cbd-deployment --config=/
Users/testuser/Documents/cbd-quickstart/gcp/vm_template_config.yaml
Waiting for create
 operation-1527749967574-56d7b021f73f1-773609ee-060d4332...done.
Create operation operation-1527749967574-56d7b021f73f1-773609ee-060d4332
 completed successfully.
NAME
                                 TYPE
                                                                STATE
 ERRORS INTENT
cbd-deployment-default-route-1 compute.v1.route
                                                                COMPLETED
 []
cbd-deployment-network
                                 compute.v1.network
                                                                COMPLETED
 []
cbd-deployment-startup-config
                                 runtimeconfig.vlbetal.config
                                                                COMPLETED
 []
cbd-deployment-startup-waiter
                                 runtimeconfig.v1beta1.waiter
                                                                COMPLETED
 []
cbd-deployment-subnet
                                 compute.v1.subnetwork
                                                                COMPLETED
 []
cbd-deployment-vm
                                 compute.v1.instance
                                                                COMPLETED
 []
firewall-cbd-deployment
                                 compute.v1.firewall
                                                                COMPLETED
 []
OUTPUTS
              VALUE
             35.224.36.96
deploymentIp
```

9. The last output should be the deploymentIp. Copy the IP address and paste it in the browser so that you can log in to the Cloudbreak web UI.

10. Paste the link in your browser's address bar.

a. Confirm the security exception to proceed to the Cloudbreak web UI.

The first time you access Cloudbreak web UI, Cloudbreak automatically generates a self-signed certificate, due to which your browser warns you about an untrusted connection and asks you to confirm a security exception.

Browser	Steps
Firefox	Click Advanced > Click Add Exception > Click Confirm Security Exception
Safari	Click Continue
Chrome	Click Advanced > Click Proceed

b. The login page is displayed:



- c. Log in to the Cloudbreak web UI using the credential that you configured in the CloudFormation template.
- d. Upon a successful login, you are redirected to the dashboard:

	HORTONWORKS CLOUDBREAK	Clusters	🛇 Autoscale 🔮 Cloudbreak 2.6.0 🗍 🕪
		Clusters 0 2	Q. Search III III CREATE CLUSTER
a,	Credentials	There are no clusters to display.	
=	Blueprints		
÷	Cluster Extensions \sim		
8	External Sources ~		
э	History		
۰	Settings		
۵	Download CLI		
	Documentation		
0	Get Help		
	Logout		

Related Information Cloud locations (GCP) Machine types (GCP) Storage options (GCP)

Next steps

After launching Cloudbreak, you must configure an external Cloudbreak database (if using Cloudbreak for production) and then create a Cloudbreak credential.

Configuring an external Cloudbreak database

By default, Cloudbreak, uses an embedded PostgreSQL database to persist data related to Cloudbreak, configuration and so on. This database is only suitable for non-production Cloudbreak, deployments. For production, you must configure an external Cloudbreak database.

Creating a Cloudbreak credential

This step is required. Only after you've performed it, you can start creating clusters. To create a Cloudbreak credential on GCP, refer to Creating a Cloudbreak credential on GCP.

Related Information

External Cloudbreak database Create a Cloudbreak credential on GCP

Delete Cloudbreak on GCP

There are two ways to delete a previously created Cloudbreak deployment from your Google Cloud account.

Option 1: Using the gcloud CLI

You can delete the deployment by using the following gcloud CLI command:

gcloud deployment-manager deployments delete deployment-name -q

For example:

```
gcloud deployment-manager deployments delete cbd-deployment -q
```

Option 2: From the Google Cloud console

You can delete the deployment from the Google Cloud console in your browser, from the Deployment Manager > Deployments:

