Lab Environment Setup - Cloud

In this hands-on exercise, you will:

- Create an instance of Hazelcast IMDG in a public cloud
- Run client code on your cloud instance of Hazelcast

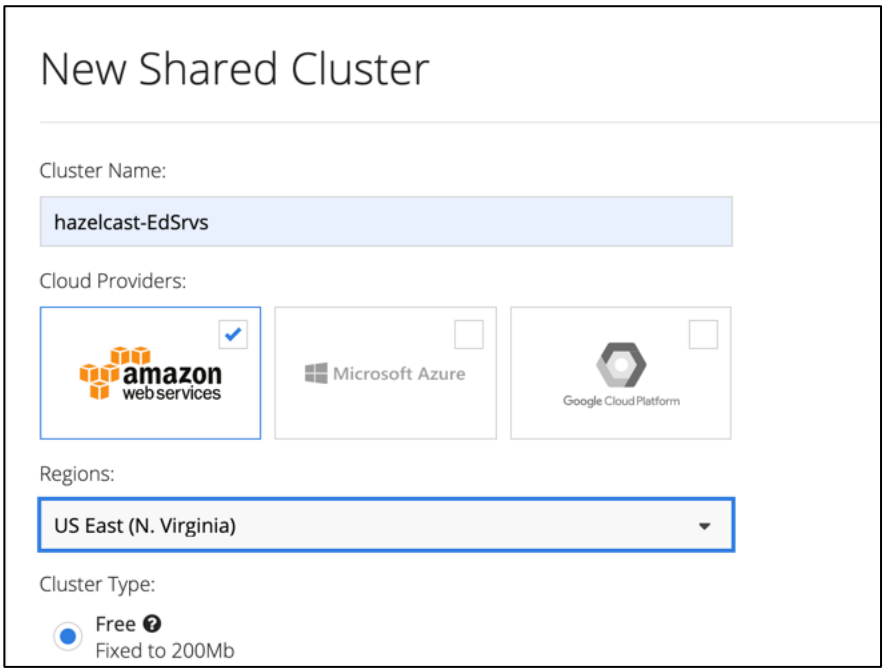
Part 1: Create Cluster

1. Browse to cloud.hazelcast.com and create an account. Log in.

2. Click the **New Cluster** button. If you see options for **Shared Cluster** and **Dedicated Cluster**, select **Shared Cluster**.

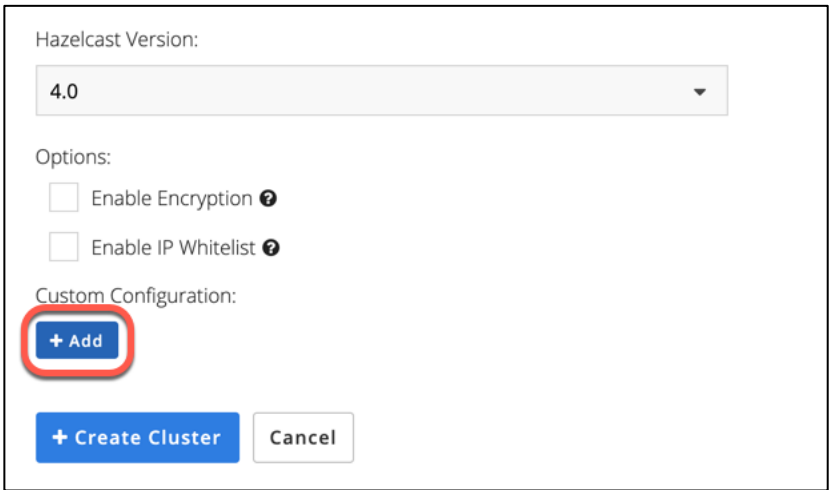
   Note: Dedicated is our Enterprise software and requires a license. For this demo, it's not necessary.

3. Set up your cluster:
   a. Give your cluster a name.
   b. Select the cloud provider and region appropriate for you.
   c. Select the free service.
   d. Select version 4.0.
   e. Leave other options at the default.

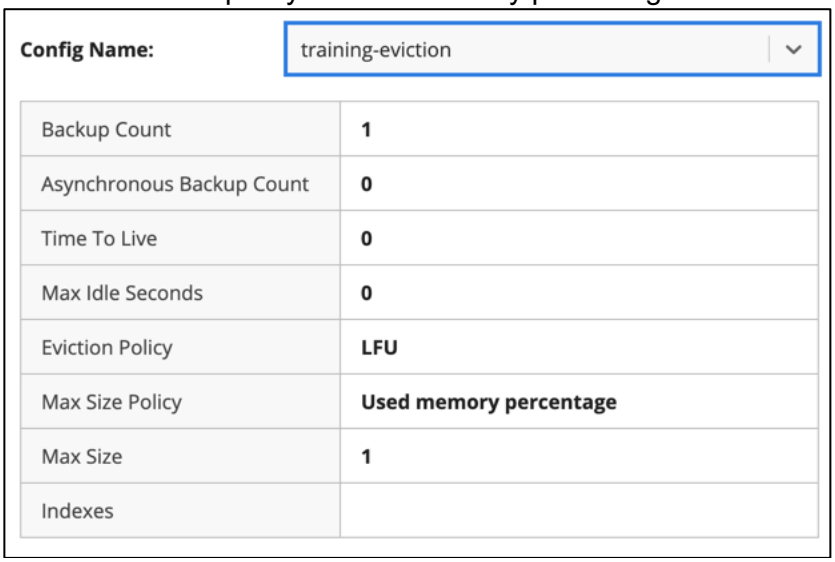


This is an example. Use your own name and settings appropriate for your location.

4. Under Custom Configuration, click Add.

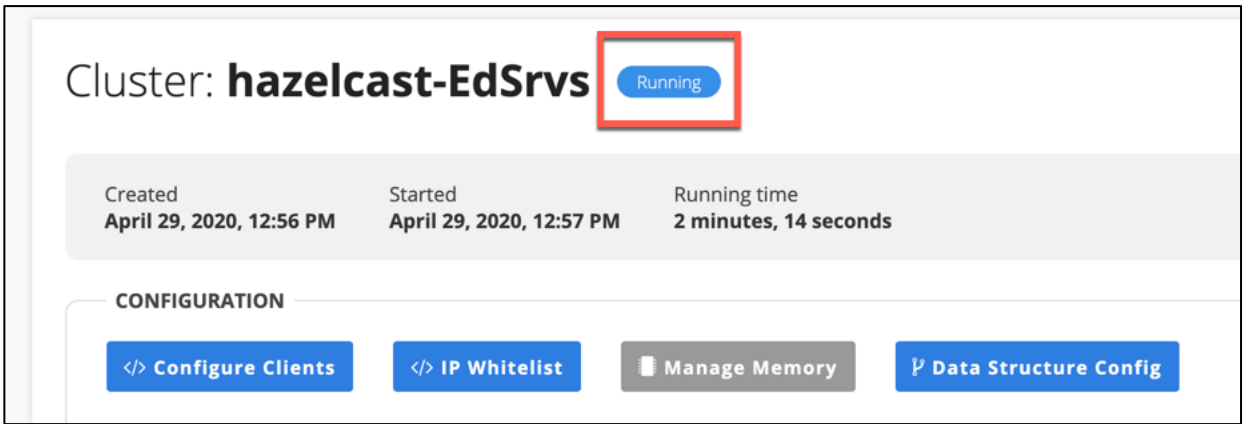


5. Create a custom configuration called training-eviction. You will use this in the eviction lab later in this course.
    a. Set the max size to 1
    b. Set the eviction policy to LFU
    c. Set the max size policy to Used memory percentage



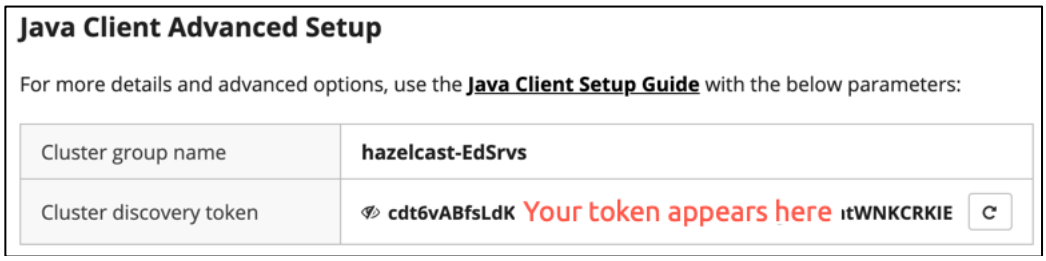
6. Click Save Configuration, then Add Cluster.

    Creating the cluster will take a few moments while your cloud provider allocates resources. The cluster is ready when the display changes to **Running**.



7. Retrieve your instance credentials. Save this information for use in all lab exercises.

    a. Click on the Configure Clients button.
    b. Under the Java tab, scroll down to Java Client Advanced Setup.
    c. Click the eye icon to reveal your token.

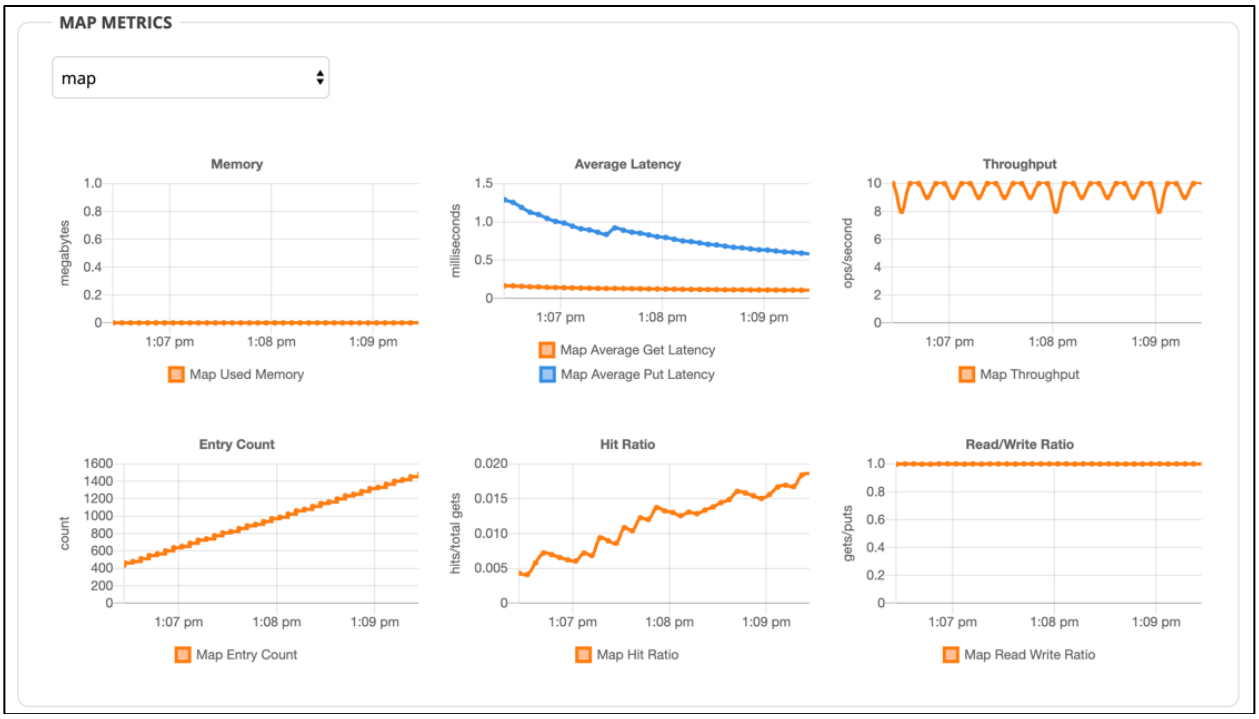


Part 2: Verify Cluster with Pre-Configured Client

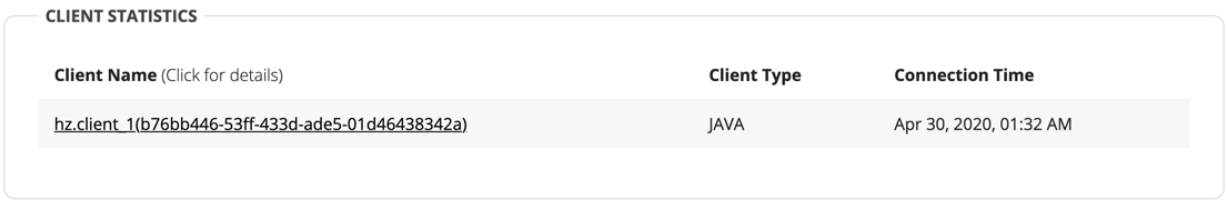
1. Click on the **Configure Clients** button.

2. Follow the steps on the screen to download and build the pre-configured Java client application.

3. Scrolll down in the cluster dashboard window to **Map Metrics**. Observe the changes over time as the client continues to run and add data to the map.



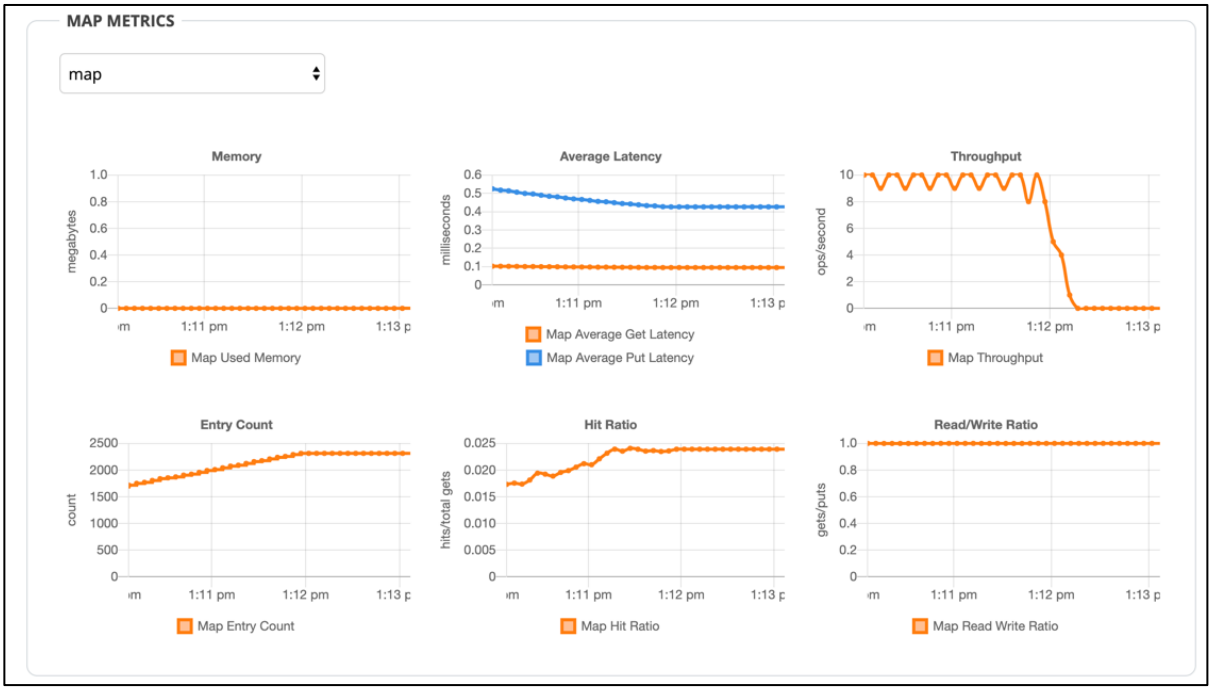
4. Scroll down further to view the connected client. Click on the client name to open a detailed view.



CLIENT DETAILS: HZ.CLIENT_1 ×

Max File Descriptor Count	0
Total Swap Space Size	0 B
Committed Virtual Memory Size	0 B
Uptime	34 s
Free Physical Memory Size	0 B
Client Type	JAVA
Free Swap Space Size	0 B
Total Memory	323.0 MB
User Executor Queue Size	0
Total Physical Memory Size	0 B
Available Processors	12
Is Enterprise	true
Name	hz.client_1
Process Cpu Time	0 s
Member Connection	100.127.33.222:30209
Used Memory	55.6 MB
Version	3.12.6
Free Memory	267.4 MB
Cluster Connection Timestamp	30-04-2020 01:33
Id	875e2fec-2b2c-400c-9c08-984289211584
Max Memory	4.3 GB
System Load Average	3.04541015625

5. Stop the client. Continue to observe the statistics. Note that the client statistics disappear once the client disconnects.



Note that the map is still resident in the cluster even though the client is no longer connected.