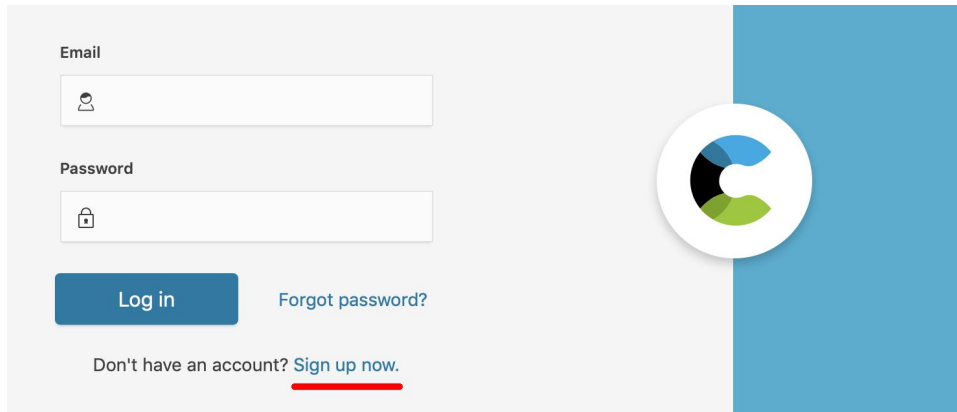


Lab 0 - Create your Elastic Cloud Environment

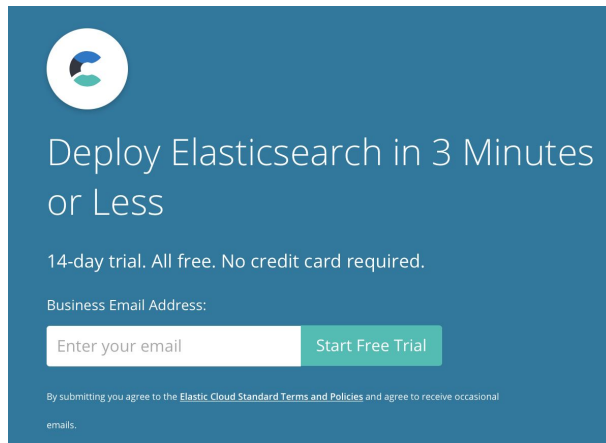
Estimated Time for This Lab: 20 Min

1. Sign up for the Elastic Cloud Trial

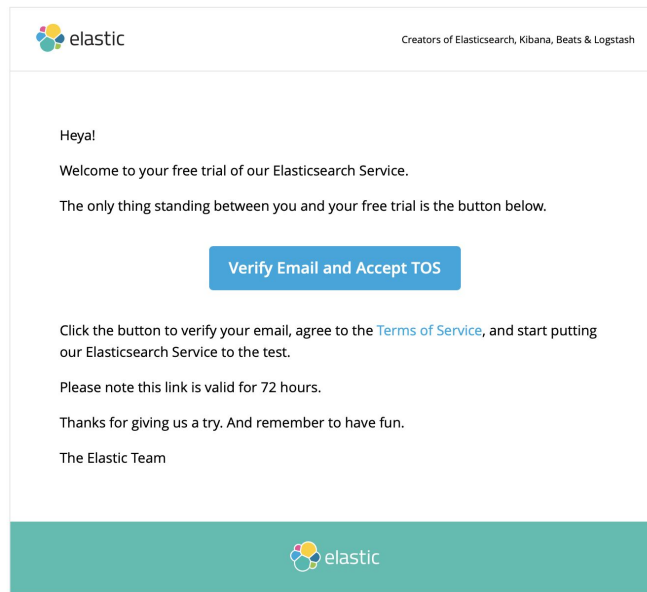
Visit <https://cloud.elastic.co> and click "Sign up now"

A screenshot of the Elastic Cloud login and sign-up page. On the left, there are two input fields: 'Email' with a person icon and 'Password' with a lock icon. Below the password field is a blue 'Log in' button and a link 'Forgot password?'. At the bottom, it says 'Don't have an account? Sign up now.'. On the right, there is a large blue vertical bar with the Elastic logo (a stylized 'C' with blue, green, and yellow segments) overlaid on it.

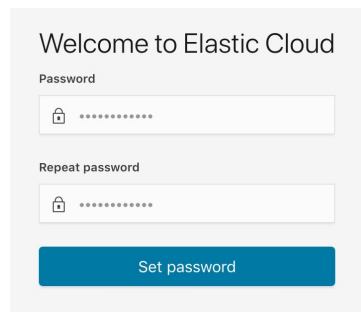
2. Enter your business email (no credit card is required).

A screenshot of the Elastic Cloud trial sign-up page. It has a dark blue background. At the top left is the Elastic logo. The main heading is 'Deploy Elasticsearch in 3 Minutes or Less'. Below that, it says '14-day trial. All free. No credit card required.' Then, 'Business Email Address:' is followed by an input field with the placeholder 'Enter your email' and a green 'Start Free Trial' button. At the bottom, in small text, it says 'By submitting you agree to the [Elastic Cloud Standard Terms and Policies](#) and agree to receive occasional emails.'

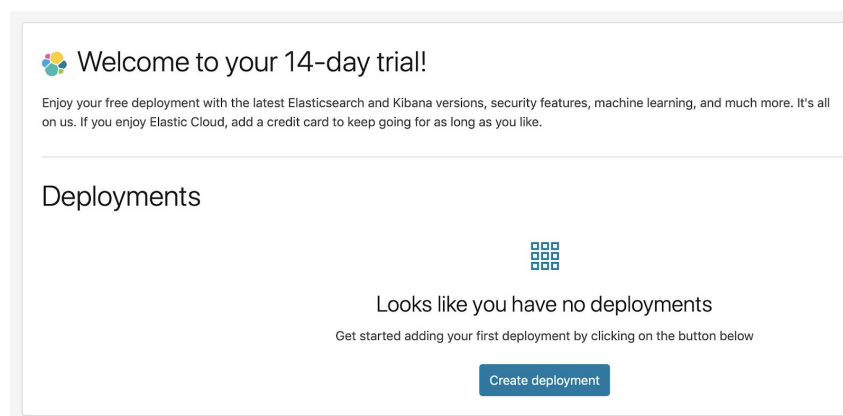
3. Check your email to verify your account.



4. Log in and create give your account a strong password.

A form titled "Welcome to Elastic Cloud" for creating a password. It has two input fields: "Password" and "Repeat password", both with a lock icon and masked with dots. A blue button labeled "Set password" is at the bottom.

5. You should now be looking at the dashboard. Click "Create deployment".



6. Give your deployment a name.

1 Name your deployment

Give your deployment a name

Workshop

7. Pick the cloud platform of your choice.

2 Select a cloud platform

Pick your cloud and let us handle the rest. No additional accounts required.



Amazon Web Services



Google Cloud Platform

3 Select a region

US East (N. Virginia)

US West (N. California)

US West (Oregon)

EU (Ireland)

Asia Pacific (Singapore)

Asia Pacific (Tokyo)

South America (Sao Paulo)

Asia Pacific (Sydney)

EU (Frankfurt)

8. Pick the latest version of Elastic.

4 Set up your deployment

Elastic Stack version

6.5.2 [Edit](#)

☐ Select a deployment to restore from its latest snapshot

9. Select the Hot-Warm deployment template.

5 Optimize your deployment

I/O Optimized

Recommended

Use for search and general all-purpose workloads. Includes a balance of compute, memory, and storage.

[Default specs](#)



Compute Optimized

Run CPU-intensive workloads or run smaller workloads cost-effectively when you need less memory and storage.

[Default specs](#)



Memory Optimized

Perform memory-intensive operations efficiently, including workloads with frequent aggregations.

[Default specs](#)



Hot-Warm Architecture

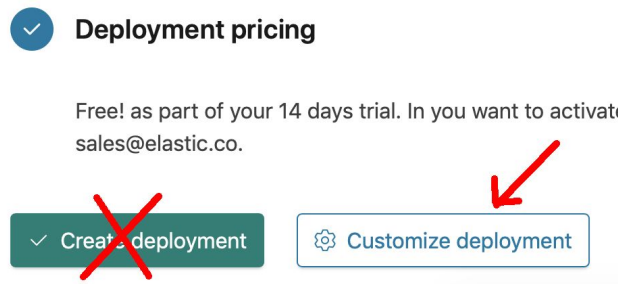
Use for time-series analytics and logging workloads that benefit from automatic index curation.

[Default specs](#)




Elastic Cloud supports many more options to cater to your specific use case such as hot-warm architecture optimized for logging, compute-focused setup optimized for analytics etc. [Learn more ...](#)

10. Click “Customize deployment”. We want to make a few more changes before creating the deployment.



11. You should see 2 Data nodes that will be deployed. During the trial, you will not be able to change the size of them. The first one will be the “Hot” nodes, and the second one will be the “Warm” nodes.

 **Data** 2 configurations

aws.data.highio.i3 Master Data Ingest

An I/O optimized Elasticsearch instance running on an AWS i3.

Fault tolerance

☐ 1 zone ☒ 2 zones ☐ 3 zones

RAM per Node

1 GB 2 GB 4 GB 8 GB 15 GB 29 GB 58 GB

Nodes ? 1 **RAM per Zone** = 2 GB

Summary

2 GB RAM 60 GB storage × 1 node × 2 zones = 4 GB RAM 120 GB storage

> User setting overrides

aws.data.highstorage.d2 Master Data Ingest

A storage optimized Elasticsearch instance running on an AWS d2.

Fault tolerance

☐ 1 zone ☒ 2 zones ☐ 3 zones

RAM per Node

2 GB 4 GB 8 GB 15 GB 29 GB 58 GB

Nodes ? 1 **RAM per Zone** = 2 GB

Summary

2 GB RAM 200 GB storage × 1 node × 2 zones = 4 GB RAM 400 GB storage

> User setting overrides

12. Turn on “Machine Learning” by clicking “Enable”.

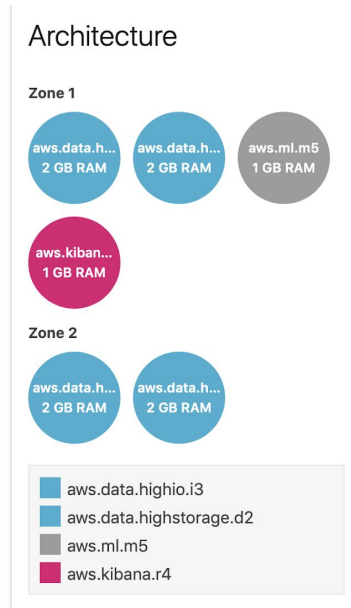
Machine Learning 1 configuration

aws.ml.m5 **Machine Learning**

An Elasticsearch machine learning instance running on an AWS m5.

Enable

Your cluster's Architecture should look similar to this:



13. Click “Manage plugins and settings”

Elasticsearch plugins and settings

Use plugins to enhance to the basic Elasticsearch functionality in a custom manner. **0 plugins selected.**

> [Manage plugins and settings](#)

14. Check the “ingest-geoip” and the “ingest-user-agent” boxes.

- ☐ ingest-attachment — The ingest attachment plugin lets Elasticsearch extract file attachments in common formats (such as PPT, XLS, and PDF) by using the Apache text extraction library Tika. [🔗](#)
- ☒ ingest-geoip — The GeoIP processor adds information about the geographical location of IP addresses, based on data from the Maxmind databases. [🔗](#) [📄](#)
- ☒ ingest-user-agent — The user_agent processor extracts details from the user agent string a browser sends with its web requests. [🔗](#) [📄](#)
- ☐ mapper-annotated-text

15. You should now see that 2 plugins are selected.

Elasticsearch plugins and settings

Use plugins to enhance to the basic Elasticsearch functionality in a custom manner. **2 plugins selected.**

> [Manage plugins and settings](#)

16. Scroll to the bottom and select “Configure index curation”.

Kibana 1 configuration

aws.kibana.r4 **Kibana**

A Kibana instance running on an AWS r4.

Fault tolerance

☒ 1 zone ☐ 2 zones ☐ 3 zones

RAM per Instance

1 GB 2 GB 4 GB 8 GB

Instances 1 **RAM per Zone** 1 GB

Summary

1 GB RAM × 1 instance × 1 zone = 1 GB RAM

> User setting overrides

[Select template](#) [Configure index curation](#)

17. Change the migration window to be 1 Week. Then select “Create deployment”.

Index curation

New indices get created on hot nodes first and are moved to warm nodes later on to ensure your deployment is running in the most efficient manner possible. Index curation manages replica counts for you, so that all shards of an index can fit on the right nodes. [Learn more ...](#)

aws.data.highio.i3 → → → aws.data.highstorage.d2

| Index pattern | Move indices ... | Actions |
|---------------|------------------|---------|
| logstash-* | After 1 Week | × |
| filebeat-* | After 1 Week | × |
| metricbeat-* | After 1 Week | × |

[Add index pattern](#) [Skip index curation](#) [Customize deployment](#) [Create deployment](#)

You won't take advantage of Hot/Warm architecture for your deployment.

18. Your cluster will begin to spin up. It takes between 3 - 6 minutes to complete.

Workshop

Activity

[Elasticsearch](#) [Kibana](#)

Generated user

You can use the credentials below to login to Elasticsearch or Kibana. Make sure to save the password somewhere as this is the only time we can show it to you.

Username elastic

Password wM0D6RBSjA4UG3xnqC4qzhZh

Cloud ID Workshop:dXMtZWfzdC0xLmF3cy5mb3VuZC5pbyQ3YmIxYTM5OMYwODk0OT
EzYwU3M2ExNWVjNzI2Mjd1ZC0yOGJkZTNhMzY4ZjM0ODV1ODJhMDM1MzQxM
j1mNwU0Yw==

Get started with Beats and Logstash quickly. The Cloud ID simplifies sending data to your cluster on Elastic Cloud. [Learn more ...](#)

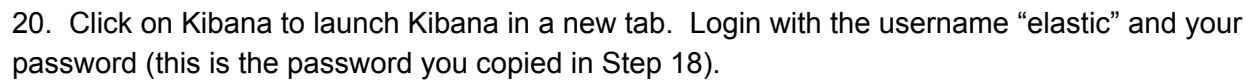
Updating deployment configuration

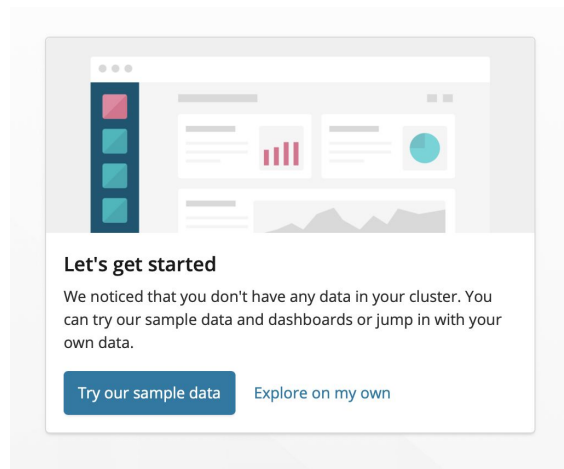
☒ Started 23 seconds ago

☐ Waiting until instances are running

[Cancel](#)

19. When the cluster is ready, select your cluster name in the top left.





22. Whitelist your email to get Watcher alerts in one of the future labs. Login to elastic cloud with your created trial account (<http://cloud.elastic.co>) and in the menu click on the Account and then click on Profile. On the screen enter the email where you would like to get your monitoring alerts in the section “Monitoring email whitelist” and click on “Add”. Later in Lab 4 you will use this same email when creating Threshold and Advanced Alerts.

