



Elasticsearch Service on Elastic Cloud

The official service from the creators of Elasticsearch

Nov 23, 2020

SaaS and Managed Services

SPEED



Fast time to value

Instant global infrastructure & operations encourage experiments and get you to market.



Agility

Pivot quickly to respond to competitive pressure, opportunity, or changing customer expectations.

SIMPLICITY



Operational Simplicity

Focus on driving business value versus managing infrastructure, operations or integrating products.



Development Simplicity

A single programming model and integrated product portfolio that can address search, observability, security.

SECURITY & RISK REDUCTION



Secure from the start

All deployments automatically have the best security by default, no configuration. Elastic compliance included.



Reduce Risk

Source global infrastructure, ops and support experts from the originators of the Elasticsearch technology on any cloud.

Elastic Technology

3 solutions



Elastic Enterprise Search



Elastic Observability



Elastic Security

Powered by the
Elastic Stack

Kibana

Elasticsearch

Beats

Logstash

Deployed
anywhere



Elastic
Cloud

SaaS



Elastic Cloud
Enterprise



Elastic Cloud
on Kubernetes

Orchestration

Only with Elastic Cloud



Lens &
Canvas



Machine
learning



Index life cycle
management



Integrated stack
security



Native sql
engine



Spaces



Rollups



Cross cluster
search



Alerting



Maps

Exclusive
Features



ELASTIC ENTERPRISE SEARCH



ELASTIC OBSERVABILITY



ELASTIC SECURITY

Exclusive
Solutions

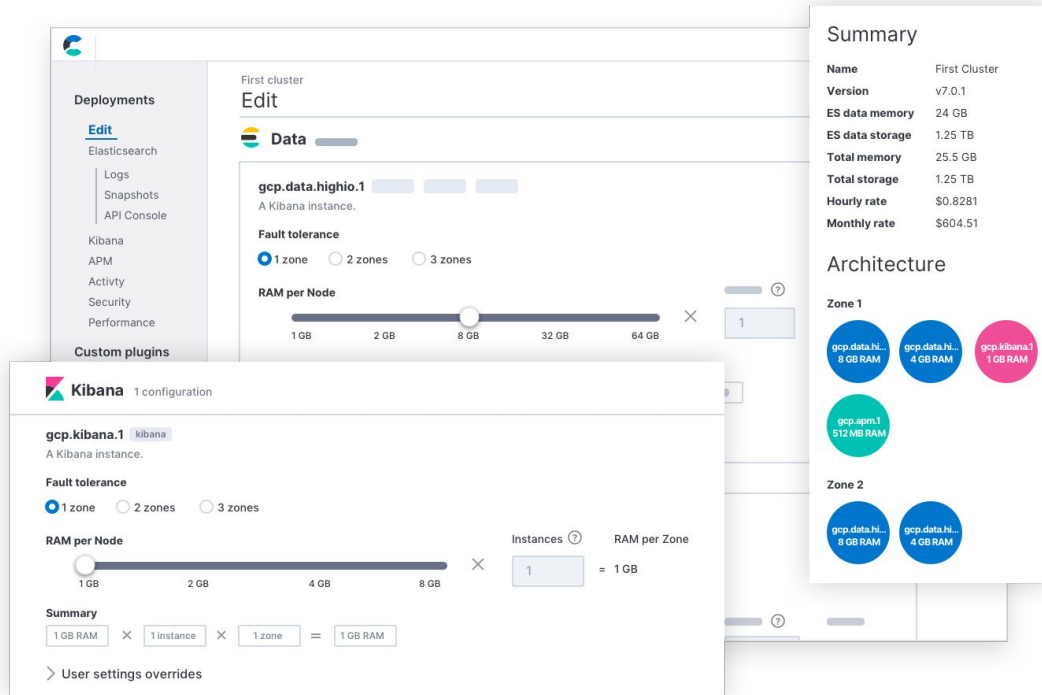
Elasticsearch Service on Elastic Cloud

Fast, Simple, Secure Cloud for your mission critical apps



Managed Elasticsearch and Kibana

Deploy, operate, and scale our solutions, Elasticsearch, and Kibana in an instant on Azure.

The screenshot displays the Elastic Cloud management interface. On the left, a sidebar lists various services: Elasticsearch, Kibana, APM, Activity, Security, and Performance. The main area is titled 'First cluster Edit' and shows configuration for a 'Data' node. It includes a 'Fault tolerance' section with radio buttons for 1, 2, or 3 zones, and a 'RAM per Node' slider ranging from 1 GB to 64 GB. A 'Summary' panel on the right provides a high-level overview of the cluster's resources. In the foreground, a 'Kibana 1 configuration' dialog box is open, showing settings for a single Kibana instance, including fault tolerance, RAM per node, and a summary of the configuration (1 GB RAM, 1 instance, 1 zone, 1 GB RAM).

Summary

Name	First Cluster
Version	v7.0.1
ES data memory	24 GB
ES data storage	1.25 TB
Total memory	25.5 GB
Total storage	1.25 TB
Hourly rate	\$0.8281
Monthly rate	\$604.51

Architecture

Zone 1

- gcp.data.hi... 8 GB RAM
- gcp.data.hi... 4 GB RAM
- gcp.kibana.1 1 GB RAM
- gcp.apm.1 512 MB RAM

Zone 2

- gcp.data.hi... 8 GB RAM
- gcp.data.hi... 4 GB RAM

Kibana 1 configuration

gcp.kibana.1 kibana
A Kibana instance.

Fault tolerance

☒ 1 zone ☐ 2 zones ☐ 3 zones

RAM per Node

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 settings overrides

Elasticsearch Service on Elastic Cloud: Benefits

For Elastic Stack and Solutions

SPEED



Fast time to value



Agility

SIMPLICITY



Operational Simplicity



Development Simplicity

SECURITY & RISK REDUCTION



Secure from the start



Reduce Risk

Elastic Best Practices for Your Use Case

With a click

How long does it take to deploy a new cluster, hot-warm, the architecture you want?

- Predefined deployment templates use Elastic tested and recommended instance types and configurations
- Hot-warm deployment with index lifecycle management for large scale time-series use case
- Independently scale Elasticsearch node roles for improved ingest and search performance

Select a hardware profile



I/O Optimized

Recommended

New to Elasticsearch? This template is suitable for all-purpose workloads that don't require more specialized resources.

[See details](#)



Compute optimized

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

[See details](#)



Cross Cluster Search

Search data across one or more associated deployments. [See details](#)



Hot-Warm Architecture

Useful for time-series analytics that benefit from automatic index curation.

[See details](#)



Memory Architecture

Perform memory-intensive operations efficiently, including workloads with frequent aggregations. [See details](#)

Simple Cluster Management

Ease of use

Do you have long upgrade times, big deployments, multiple use cases?

- Configure, manage and scale multiple deployments with a single console
- In-place configuration changes for faster and more reliable cluster changes
- Automatic snapshots with configurable frequency and retention
- Deploy / turn on built-in monitoring cluster with a click in Kibana

Deployments

- [Create deployment](#)
- Custom plugins
- Account
- Help

Deployments / Create

Create deployment

Take the template that pre-configures the Elastic Stack and make it yours. Adjust capacity and performance, change the level of fault tolerance, add more features, and much more. [Learn more](#)

Data 1 configuration

Store, search, and analyze big volumes of data quickly. [Learn more](#)

azure.data.higbio.I32sv2 **Data** **Coordinating** **Master**

An I/O optimized Elasticsearch instance running on an Azure L32sv2.

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 8 GB

Summary

8 GB RAM 240 GB storage × 1 node × 2 zones =

16 GB RAM 480 GB storage

> User setting overrides

Machine Learning 1 configuration

Automatically model the behavior of your Elasticsearch data — trends, periodicity, and more. [Learn more](#)

azure.ml.d64sv3 **Machine Learning**

An Elasticsearch machine learning instance running on an Azure D64sv3

Fault tolerance

☒ 1 zone ☐ 2 zones ☐ 3 zones

RAM per Node

Nodes

Summary

Version	
ELASTICSEARCH	v7.6.0
Memory	16 GB
Storage	480 GB
Master memory	1 GB
Hourly rate	\$0.3658
KIBANA	
Memory	1 GB
Hourly rate	FREE
ML	
Memory	1 GB
Hourly rate	FREE
APM	
Memory	512 MB
Hourly rate	FREE
TOTAL	
Total memory	19.5 GB
Total storage	480 GB
Hourly rate	\$0.3658

Architecture

Zone 1

Zone 2

azure.data.higbio.I32...

Simple Cluster Management

REST API, High Availability, Upgrades

Do you experience downtime with upgrades, use APIs, hit cloud quotas?
How often do you upgrade?

- Zero downtime upgrades with a few clicks
- CI/CD pipeline integration via Public REST API and ecctl command line
- High availability across multiple AZs
- Smooth scaling with no quota delays from your cloud provider

The screenshot displays the Elastic Cloud console interface for a deployment named "GCP_Demo". The left sidebar contains navigation links for Deployments, GCP_Demo, Edit, Elasticsearch (Logs, Snapshots, API console), Kibana, APM, Activity, Security, Metrics, Custom plugins, Account, and Help.

The main content area shows the deployment details for "GCP_Demo" (ID: 5692ee6) in the "us-west1 (Oregon)" region. The deployment status is "Healthy". The deployment version is "v7.2.0", with an "Upgrade" button available. The deployment includes three applications: Elasticsearch, Kibana, and APM, each with a "Launch" button and a "Copy Endpoint URL" button. The Cloud ID is displayed as "GCP_Demo: dXMtd2VzdEuZ2NwLmNsb3VkLmVzLm1vJDEyODgzMmJhMjY4MjQ5OWNhNDUwZjYyNzFhMDd1ZGI4JDhmOGYwODc2NWE2MjQ3ZDF1Zjc4MzQ2ZTZ1MDkyMTdi".

Below the deployment details, the "Instances" section shows a list of instances: "gcp.data.highio.1", "gcp.kibana.1", and "gcp.apm.1". The "us-west1-b" availability zone contains three instances: "GCP.DATA.HIGHIO.1" (Instance #0, v7.2.0, 8 GB RAM, master node), "GCP.KIBANA.1" (Instance #2, v7.2.0, 2 GB RAM), and "GCP.APM.1" (Instance #0, v7.2.0, 1 GB RAM). Each instance has a "Stop routing" button.

Continuous Compliance

In the cloud

What customer type do you need to serve?

- HIPAA
- CSA Star Level 2
- SOC 2 Type 1, Type 2 and SOC 3
- ISO 27001, ISO 27107, ISO 27018
- FedRAMP authorized at Moderate impact level, deployable to AWS GovCloud (US)
- Elastic Cloud operates in compliance with GDPR principles

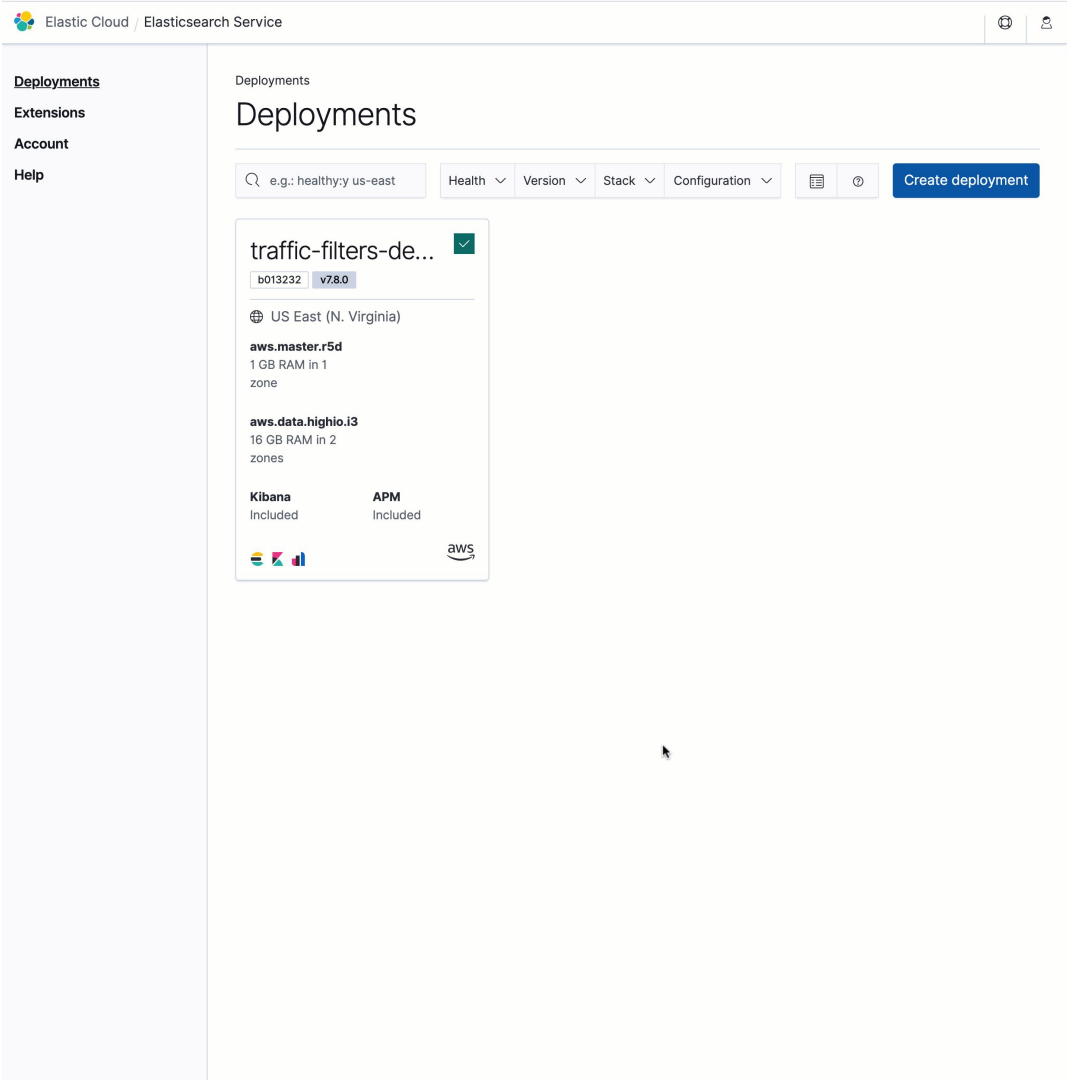


Secure by Default

Native security, fully integrated

How long do you spend configuring security, how do you ensure you are protected?

- Native Authentication: SAML & OIDC, Kerberos Auth and more
- Native Authorization: Powerful role and attribute based access control, field and document level security
- Network security: IP filtering and AWS PrivateLink integration
- Elastic Cloud is always up to date with any new Stack and solution security updates



Secure by Default

Encryption, patching, hardening

How long does it take to configure encryption, perform security patches, how much downtime?

- Data and snapshot encryption at rest (EAR)
- TLS encryption of data to, from, and within your deployments
- Multi-Factor Authentication for Elastic Cloud console
- [CIS](#) Level 1 & 2 Server Profile OS hardening
- OS kernel patches in ~48 hours from CVE publication in our virtual images

Multi-factor authentication

Add an extra layer of security by setting up Google authenticator or text messaging on a mobile device.

[Learn more](#)

☐ Add a device to enable multi-factor authentication.



Authenticator app

1 Scan QR code

Use the Google authenticator app to scan the QR code below



2 Enter passcode

Enter the 6 digit auth.elastic.co passcode

E.g. 123456

Enable device

Cancel



Text message

Use your mobile phone to receive security codes

Add a phone number

Consolidate your Cloud Bills

One bill from Azure + Elastic

Billing integration for major cloud providers

- Subscribe and pay using your Azure account
- Draw down from Azure spend commitment
- Support for monthly standard and premium tiers



Elasticsearch Service

The official managed Elasticsearch Service



10 Azure Regions and growing

Americas

- westus2 (Washington)
- centralus (Iowa)
- eastus2 (Virginia)

Europe

- francecentral (Paris)
- northeurope (Ireland)
- euksouth (London)
- westeurope (Netherlands)

Asia Pacific

- southeastasia (Singapore)
- japaneast (Tokyo)
- australiaeast (New South Wales)

Elasticsearch Service

Fast, Simple, Secure Cloud from Elastic

8+ years

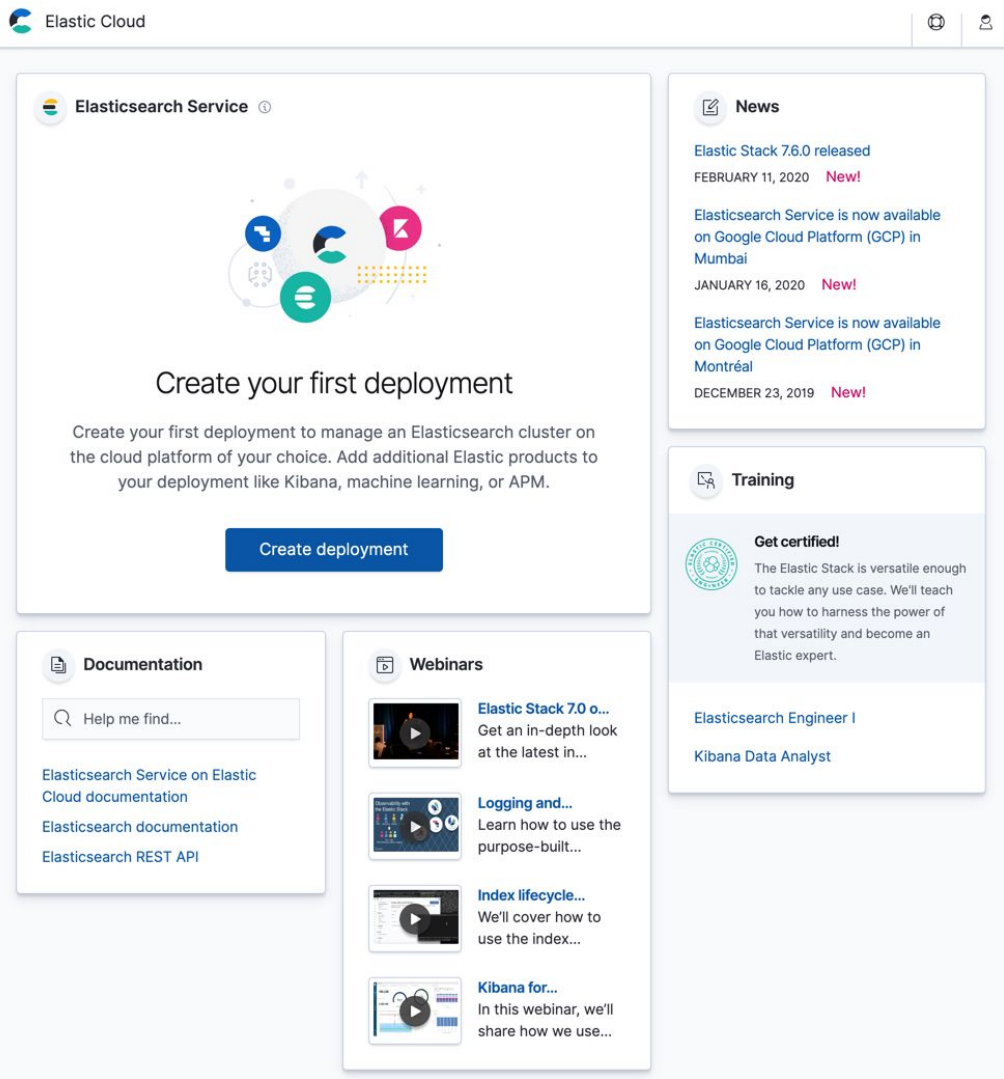
Experience operating
Elasticsearch as a service

22,000+ Clusters, 39 Regions

Created & maintained for every
possible use case around the world

Always the latest version

New Stack/Solution releases are available on Elastic
Cloud and as downloadable software the same day



The screenshot shows the Elastic Cloud interface for Elasticsearch Service. At the top, the Elastic Cloud logo is visible. The main section features a large graphic with the Elasticsearch logo and the text "Create your first deployment". Below this, a button labeled "Create deployment" is present. To the right, there are two sections: "News" and "Training". The "News" section lists three items: "Elastic Stack 7.6.0 released" (February 11, 2020), "Elasticsearch Service is now available on Google Cloud Platform (GCP) in Mumbai" (January 16, 2020), and "Elasticsearch Service is now available on Google Cloud Platform (GCP) in Montréal" (December 23, 2019). The "Training" section includes a "Get certified!" badge and text about becoming an Elastic expert, with links for "Elasticsearch Engineer I" and "Kibana Data Analyst". Below the main section, there are two more sections: "Documentation" and "Webinars". The "Documentation" section has a search bar and links to "Elasticsearch Service on Elastic Cloud documentation", "Elasticsearch documentation", and "Elasticsearch REST API". The "Webinars" section lists four videos: "Elastic Stack 7.0 o...", "Logging and...", "Index lifecycle...", and "Kibana for...".

Elastic Cloud

Elasticsearch Service

Create your first deployment

Create your first deployment to manage an Elasticsearch cluster on the cloud platform of your choice. Add additional Elastic products to your deployment like Kibana, machine learning, or APM.

Create deployment

News

Elastic Stack 7.6.0 released
FEBRUARY 11, 2020 **New!**

Elasticsearch Service is now available on Google Cloud Platform (GCP) in Mumbai
JANUARY 16, 2020 **New!**

Elasticsearch Service is now available on Google Cloud Platform (GCP) in Montréal
DECEMBER 23, 2019 **New!**

Training

Get certified!

The Elastic Stack is versatile enough to tackle any use case. We'll teach you how to harness the power of that versatility and become an Elastic expert.

Elasticsearch Engineer I
Kibana Data Analyst

Documentation

Help me find...

Elasticsearch Service on Elastic Cloud documentation
Elasticsearch documentation
Elasticsearch REST API

Webinars

Elastic Stack 7.0 o...
Get an in-depth look at the latest in...

Logging and...
Learn how to use the purpose-built...

Index lifecycle...
We'll cover how to use the index...

Kibana for...
In this webinar, we'll share how we use...



Thank You

Elastic is a Search Company.
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