**OpenSearch Dashboard on window**

**Prerequisites:-**

Node.js is install version 18.19.0

NVM is install version 1.1.1

Npm is install version 10.2.3

* **Steps to Set Up OpenSearch Dashboards**

Open your terminal and run:

git clone <https://github.com/opensearch-project/OpenSearch-Dashboards.git> -b 2.18.0

This clones the repository for version 2.18.0.

* **Navigate to the Repository**

cd OpenSearch-Dashboards

* **Install Corepack Globally**

Update corepack to the latest version

npm i -g corepack

Install the correct version of yarn

Corepack install

* Bootstrap OpenSearch Dashboards:-

The `osd bootstrap` command will install the project's dependencies and build all internal packages and plugins. Bootstrapping is necessary any time you need to update packages, plugins, or dependencies, and it's recommended to run it anytime you sync with the latest upstream changes.

yarn osd bootstrap

yarn install

* Modify the OpenSearch Dashboard Configuration

# OpenSearch Dashboards is served by a back end server. This setting specifies the port to use.

server.port: 5611

# Specifies the address to which the OpenSearch Dashboards server will bind.

server.host: "localhost"

# The URLs of the OpenSearch instances to use for all your queries.

opensearch.hosts: ["<https://localhost:9002>"]

# If your OpenSearch is protected with basic authentication, provide the credentials here.

# Uncomment and replace with actual credentials if required.

opensearch.username: "admin"

opensearch.password: "Infopercept@321"

# Optional setting to specify the path to the PEM file for the certificate authority for your OpenSearch instance.

# Uncomment and replace with the path if you're using custom certificates.

# opensearch.ssl.certificateAuthorities: [ "/path/to/your/CA.pem" ]

# To disregard the validity of SSL certificates, set this to 'none' (not recommended for production).

opensearch.ssl.verificationMode: none

# Enables the welcome screen.

# home.disableWelcomeScreen: true

* **Setup Docker**

Create a directory named opensearch-docker

mkdir opensearch-docker

cd opensearch-docker

Create dockerdocker-compose.yml file in this directory

version: '3'

services:

opensearch-node1:

image: opensearchproject/opensearch:latest

container\_name: opensearch-node1

environment:

- cluster.name=opensearch-cluster # Name the cluster

- node.name=opensearch-node1 # Name the node

- discovery.seed\_hosts=opensearch-node1 # Only this node in the setup

- cluster.initial\_cluster\_manager\_nodes=opensearch-node1 # Single-node manager

- bootstrap.memory\_lock=true # Disable JVM heap memory swapping

- "OPENSEARCH\_JAVA\_OPTS=-Xms512m -Xmx512m" # Set JVM heap size

- OPENSEARCH\_INITIAL\_ADMIN\_PASSWORD=Anubhav@321 # Set admin password

ulimits:

memlock:

soft: -1

hard: -1

nofile:

soft: 65536

hard: 65536

volumes:

- opensearch-data:/usr/share/opensearch/data # Persistent data storage

ports:

- 9002:9200 # Map container's 9200 port to host's 9002 port for REST API access

- 9600:9600 # Performance Analyzer (optional, can be removed)

networks:

- opensearch-net

volumes:

opensearch-data:

networks:

opensearch-net:

**Start the OpenSearch service:**

docker compose up -d

And testing setup:-

* OpenSearch Dashboard: Access the dashboard in your browser at <http://localhost:5611>.
* OpenSearch: Verify the API endpoint is running by navigating to [http://localhost:9002](http://localhost:9002/)