**OpenSearch Dashboard Installation**

**Prerequisites**

1. Ensure **Git** is installed on your system.
2. Install **Node.js** (latest stable version) and **Yarn** package manager.
   * Use the following commands for installation:

**Steps**

1. **Clone the OpenSearch Dashboard repository:**

git clone git@github.com:opensearch-project/OpenSearch-Dashboards.git

1. **Navigate to the cloned directory**:

cd OpenSearch-Dashboards

1. **Bootstrap the environment:**

yarn osd bootstrap

1. **Download the OpenSearch snapshot**:

yarn opensearch snapshot

1. **Start the OpenSearch Dashboard**:

yarn start

**Modify the OpenSearch Dashboard Configuration**

Edit the opensearch.yml file with the following settings:

**Opensearch\_dashbord.yaml**

# OpenSearch Dashboards is served by a backend 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.

opensearch.username: "admin"

opensearch.password: "Anubhav@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

**OpenSearch Setup with Docker**

**Steps**

1. Create a directory named opensearch-docker:

mkdir opensearch-docker

cd opensearch-docker

1. Create a docker-compose.yml file in this directory with the following content:

**Docker-compose.yaml**

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:

1. Start the OpenSearch service:

docker compose up -d

**Testing the 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>