**ELASTIC SEARCH SPECIFIC VERSION INSTALLATION (v7.8)**

JAVA Installation 11.09

sudo apt-get update

sudo apt-get install openjdk-11-jdk-headless

**Set Default Java version**

sudo update-alternatives --config java

sudo update-alternatives --config javac

java -version

### Add OpenJDK 11 to the JAVA\_HOME variable

The following are the steps to configure **JAVA\_HOME** environment variable:

Open the **/etc/bash.bashrc** file and add the **JAVA\_HOME** and **PATH** variable at the end of the file.

export JAVA\_HOME=/usr/lib/jvm/java-11-openjdk-amd64

export PATH=$PATH:$JAVA\_HOME/bin

Save and source the bash.bashrc file:

source /etc/bash.bashrc

Echo the  JAVA\_HOME variable to make sure that variable has been set:

echo $JAVA\_HOME

Elasticsearch 7.8 Installation  
Import the Elasticsearch PGP Key

wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -

### Installing from the APT repository

sudo apt-get install apt-transport-https

echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" | sudo tee /etc/apt/sources.list.d/elastic-7.x.list

You can install the Elasticsearch Debian package with:

sudo apt-get update &&

For Stable

sudo apt-get install elasticsearch

For Specific Version

sudo apt-get install elasticsearch=7.8.0

### Running Elasticsearch with SysV init s[edit](https://github.com/elastic/elasticsearch/edit/7.9/docs/reference/setup/install/deb-init.asciidoc)

Use the update-rc.d command to configure Elasticsearch to start automatically when the system boots up:

sudo update-rc.d elasticsearch defaults 95 10

Elasticsearch can be started and stopped using the service command:

sudo -i service elasticsearch start

sudo -i service elasticsearch stop

### Running Elasticsearch with systemd

sudo /bin/systemctl daemon-reload

sudo /bin/systemctl enable elasticsearch.service

sudo systemctl start elasticsearch.service

sudo systemctl stop elasticsearch.service

### Checking that Elasticsearch is running

curl -X GET "localhost:9200/?pretty"

curl -X GET "172.31.87.199:9200/?pretty"

**Update local IP on elasticsearch.yml file**

cd /etc/elasticsearch/elasticsearch.yml  
network.host: 172.31.87.199

IF YOU GETTING ANY ERROR WHILE CHANGING IP address on elasticsearch.yml

the default discovery settings are unsuitable for production use; at least one of [discovery.seed\_hosts, discovery.seed\_providers, cluster.initial\_master\_nodes] must be configured  
then add below lines  
**discovery.type: single-node**

**Elasticsearch Service restart**

# Install S3 Plugin

root@ip-172-31-67-131:/usr/share/elasticsearch# bin/elasticsearch-plugin install repository-s3

**curl -XGET 'http://localhost:9200/\_snapshot/\_all?pretty'**

curl -XGET 'http://172.31.87.199:9200/\_snapshot/\_all?pretty'  
  
Put Access & Secret Keys in Elasticsearch is running

curl -X PUT "localhost:9200/\_snapshot/s3?pretty" -H 'Content-Type: application/json' -d'{"type": "s3","settings": {"bucket" : " elastic2","region" : " us-east-1", "base\_path" : " folder1","access\_key":" AKIAIMLUFKDUHA2ZOB6A","secret\_key":" 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"}}'

curl -X PUT "localhost:9200/\_snapshot/s3?pretty" -H 'Content-Type: application/json' -d'{"type": "s3","settings": {"bucket" : " repositorys3","region" : " us-east-1", "base\_path" : " elastic","access\_key":"AKIAIM7JZ2D5FLK4SR3Q ","secret\_key":" 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 "}}'

curl -X PUT "localhost:9200/\_snapshot/s3?pretty" -H 'Content-Type: application/json' -d'{"type": "s3","settings": {"bucket" : "elasticcheck","region" : "us-east-1","access\_key":"AKIAIM7JZ2D5FLK4SR3Q","secret\_key":"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"}}'

**Correct**

curl -X PUT "localhost:9200/\_snapshot/s3\_check?pretty" -H 'Content-Type: application/json' -d'{"type": "s3","settings": {"bucket" : "elasticcheck","region" : "us-east-1","base\_path" : "elas","access\_key":"AKIAIM7JZ2D5FLK4SR3Q","secret\_key":"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"}}'

vim config/jvm.options

Add the below line:  -Des.allow\_insecure\_settings=true It is working for me. there is an undocumented system property: <https://github.com/elastic/elasticsearch/issues/26589>

curl -X PUT "localhost:9200/\_snapshot/s3?pretty" -H 'Content-Type: application/json' -d'{"type": "s3","settings": {"bucket" : "repositorys3", "region" : "us-east-1", "access\_key":"AKIA5NHFFZFIQO62Q4TR","secret\_key":"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"}}'

**PUT DATA IN BUCKET**

curl -XPUT "localhost:9200/\_snapshot/s3/snapshot\_22nov?wait\_for\_completion=false";

curl -XPUT "172.31.87.199:9200/\_snapshot/s3/snapshot\_22nov?wait\_for\_completion=false";

**Crontab Entry**

. /home/ubuntu/db\_backups/config.sh; /home/ubuntu/db\_backups/elastic\_backup.sh

* **Config.sh**

**export AWS\_ACCESS\_KEY\_ID="AKIAQINYVPEMWO72YPJQ"**

**export AWS\_SECRET\_ACCESS\_KEY="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"**

**export AWS\_DEFAULT\_REGION="ap-south-1"**

**export AWS\_BUCKET\_NAME="surbo-prod-dbs-backup"**

**export ELASTIC\_HOST="172.31.21.11"**

**export ELSTIC\_PORT="9200"**

**export SNAPSHOT\_REPOSITORY="s3\_repository"**

* elastic\_backup.sh

**#!/bin/bash**

**log\_file=/var/log/backups/es\_snapshot.log**

**snapshot\_name="snapshot\_`date +%d%m%Y-%H%M%S`"**

**echo "<<<<<<<---------------Taking Snapshot of cluster-------------------->>>>>>>>>" >> $log\_file**

**echo "====>>>>Taking snapshot of elasticsearch named: $snapshot\_name" >> $log\_file**

**initial\_time="`date +%H%M%S`"**

**echo "====>>>>Time@Snapshot is started:$initial\_time">> $log\_file**

**if curl -XPUT "$ELASTIC\_HOST:$ELSTIC\_PORT/\_snapshot/$SNAPSHOT\_REPOSITORY/$snapshot\_name?wait\_for\_completion=false"; then**

**final\_time="`date +%H%M%S`"**

**time\_taken= $((initial\_time-final\_time))**

**echo "====>>>>Total time taken for snapshotting:$time\_taken" >> $log\_file**

**echo "====>>>>snapshot:$snapshot\_name status:completed" >> $log\_file**

**else**

**echo "====>>>>Snapshot:$snapshot\_name status:failed time:$initial\_time" >> $log\_file**

**fi**

**echo "<<<<<<<<<---------------End of snapshotting--------------------->>>>>>>>>>>" >> $log\_file**

# Restore from Snapshot

curl -X GET “localhost:9200/\_snapshot/my\_s3\_repository/\_all?pretty”

**curl -X GET "172.31.87.199:9200/\_snapshot/s3\_check/\_all?pretty"**

**{**

**"snapshots" : [**

**{**

**"snapshot" : "snapshot\_22nov",**

**"uuid" : "wY08sWXPSYGr-3K7JDa8cA",**

**"version\_id" : 7080099,**

**"version" : "7.8.0",**

**"indices" : [ ],**

**"include\_global\_state" : true,**

**"state" : "SUCCESS",**

**"start\_time" : "2020-11-22T09:52:48.412Z",**

**"start\_time\_in\_millis" : 1606038768412,**

**"end\_time" : "2020-11-22T09:52:48.612Z",**

**"end\_time\_in\_millis" : 1606038768612,**

**"duration\_in\_millis" : 200,**

**"failures" : [ ],**

**"shards" : {**

**"total" : 0,**

**"failed" : 0,**

**"successful" : 0**

**}**

**},**

**{**

**"snapshot" : "snapshot\_22nov1",**

**"uuid" : "izjIycF0QnqsK-mHG0\_qbQ",**

**"version\_id" : 7080099,**

**"version" : "7.8.0",**

**"indices" : [ ],**

**"include\_global\_state" : true,**

**"state" : "SUCCESS",**

**"start\_time" : "2020-11-22T10:18:20.500Z",**

**"start\_time\_in\_millis" : 1606040300500,**

**"end\_time" : "2020-11-22T10:18:20.700Z",**

**"end\_time\_in\_millis" : 1606040300700,**

**"duration\_in\_millis" : 200,**

**"failures" : [ ],**

**"shards" : {**

**"total" : 0,**

**"failed" : 0,**

**"successful" : 0**

**}**

**},**

**{**

**"snapshot" : "snapshot\_22nov2",**

**"uuid" : "98zTOToJT3ygq9IZIn5NSw",**

**"version\_id" : 7080099,**

**"version" : "7.8.0",**

**"indices" : [ ],**

**"include\_global\_state" : true,**

**"state" : "SUCCESS",**

**"start\_time" : "2020-11-22T10:19:16.950Z",**

**"start\_time\_in\_millis" : 1606040356950,**

**"end\_time" : "2020-11-22T10:19:17.150Z",**

**"end\_time\_in\_millis" : 1606040357150,**

**"duration\_in\_millis" : 200,**

**"failures" : [ ],**

**"shards" : {**

**"total" : 0,**

**"failed" : 0,**

**"successful" : 0**

**}**

**},**

**{**

**"snapshot" : "snapshot\_22nov3",**

**"uuid" : "nqxGJsTXTh28S4eSGoYmOg",**

**"version\_id" : 7080099,**

**"version" : "7.8.0",**

**"indices" : [ ],**

**"include\_global\_state" : true,**

**"state" : "SUCCESS",**

**"start\_time" : "2020-11-22T10:19:46.575Z",**

**"start\_time\_in\_millis" : 1606040386575,**

**"end\_time" : "2020-11-22T10:19:46.776Z",**

**"end\_time\_in\_millis" : 1606040386776,**

**"duration\_in\_millis" : 201,**

**"failures" : [ ],**

**"shards" : {**

**"total" : 0,**

**"failed" : 0,**

**"successful" : 0**

**}**

**}**

**]**

**}**