**ansible playbook to install Elasticsearch**

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- name: Stage instance(s)

hosts: localhost

connection: local

user: root

gather\_facts: false

tags:

- stage

tasks:

- name: Launch the new EC2 Instance

ec2:

instance\_type: t2.medium

group: mahesh-NG

count: 1

key\_name: awskeypair

image: ami-0fc20dd1da406jkhy

region: us-east-2

vpc\_subnet\_id: subnet-0b67481hg7v82fc2d5a

wait: yes

assign\_public\_ip: yes

register: ec2

- name: Add the newly created host so that we can further contact it

add\_host:

name: "{{ item.public\_ip }}"

groups: deploy

with\_items: "{{ ec2.instances }}"

- name: Wait for SSH to come up

wait\_for:

host: "{{ item.public\_ip }}"

port: 22

state: started

with\_items: "{{ ec2.instances }}"

- name: accept new ssh fingerprints

shell: ssh-keyscan -H {{ item.public\_ip }} >> ~/.ssh/known\_hosts

with\_items: '{{ ec2.instances }}'

- name: Breathing room (Ansible uses python apt, has issues running directly after boot)

pause: seconds=15

- name: Configuring ElasticSearch

hosts: deploy

user: ubuntu

become\_method: sudo

become: true

gather\_facts: false

tags:

- config

- configure

tasks:

- name: update cache and ignore errors in case of problems

become: yes

apt: update\_cache=yes

ignore\_errors: yes

- name: install nginx

become: yes

apt:

name: nginx

purge: yes

state: present

- name: install java 11

become: yes

apt:

name: openjdk-11-jdk

purge: yes

state: present

- name: Set Java home

shell: sudo echo "JAVA\_HOME=/usr/lib/jvm/java-11-openjdk-amd64" >> /etc/environment

- name: export Java home

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

- name: Download ElasticSearch package

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

- name: check package list

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

- name: update cache and ignore errors in case of problems

become: yes

apt: update\_cache=yes

ignore\_errors: yes

- name: install elasticsearch

become: yes

apt:

name: elasticsearch

purge: yes

state: present

notify: restart elasticsearch

- name: Copy over Elasticsearch settings

copy: src=./elasticsearch/elasticsearch.yml dest=/etc/elasticsearch/elasticsearch.yml

notify: restart elasticsearch

- name: Copy over nginx defailt file

copy: src=./elasticsearch/default dest=/etc/nginx/sites-available/default

notify: restart nginx

- name: Copy over chain file

copy: src=./elasticsearch/fullchain.pem dest=/etc/nginx/sites-available/fullchain.pem

notify: restart nginx

- name: Copy over pvt keypair

copy: src=./elasticsearch/privkey.pem dest=/etc/nginx/sites-available/privkey.pem

notify: restart nginx

handlers:

- name: restart elasticsearch

action: service name=elasticsearch state=restarted

- name: restart nginx

action: service name=nginx state=restarted