Ansible Based ELK Cluster Provisioning

Document objective:

Create the ansible script for setup of ELK cluster.

Prerequisite:

1. Make sure that ansible package installed on the server which executes this ansible script. (ansible version is >2.0)
2. AWS image which already has a python package (version - 2.7).
3. One subnet.
4. Security groups which have following port access:

Type	Protocol	Port Range	Source
SSH	TCP	22	::/0
Custom TCP Rule	TCP	9200	::/0
Custom TCP Rule	TCP	9600	::/0
Custom TCP Rule	TCP	5601	::/0

Description:

There is one script which executes all command's in one run. There are two steps in Ansible Script.

1. Launch EC2 VM's for ELK setup.
2. Install and Configure the Elasticsearch, Logstash, and Kibana.

In this script add some values in the variable file(**Elk_cluster/launch_instance/vars.yml**) values as follows:

- Add **AWS_ACCESS_KEY** and **SECRET_KEY**.
- Add Pem key name into **KEYPAIR**.
- Add Private key path into **ANSIBLE_SSH_PRIVATE_KEY_FILE**.

How to Run:

Run the following command as **SUPERUSER** on the terminal.

```
./setup.sh
```

Note:- This script launch only 4 aws Instances and setup/configure ELK cluster on that VM's.