**Getting elastic search and kibana running (v. 7.7.x) on Fedora 32**

All the following have been done as root

1) Set up JAVA\_HOME environment variable. You can use the openjdk (as of writing 14). Set ***JAVA\_HOME=/usr/lib/jvm/jre-##-openjdk*** add it to the path as well (the bin dir)

2) Import RPM key form elasticsearch repository

***rpm --import*** ***https://artifacts.elastic.co/GPG-KEY-elasticsearch***

Create a repository file in “/etc/yum.repos.d” call the file elasticsearch.repo. The contents are as follows:

[elasticsearch]

name=Elasticsearch repository for 7.x packages

baseurl=https://artifacts.elastic.co/packages/7.x/yum

gpgcheck=1

gpgkey=https://artifacts.elastic.co/GPG-KEY-elasticsearch

enabled=0

autorefresh=1

type=rpm-md

To install elasticsearch (& kibana or any other application from the elastic stash)

***dnf install –enablerepo=elasticsearch elasticsearch [kibana, logstash]***

Note: elasticsearch-oss and kibana-oss (are apache licensed versions and do not come with xpack)

3) Config files for both elasticsearch & kibana can be found in **/*etc/*elasticsearch/elasticsearch.yml** and **/etc/kibana/kibana.yml**respectively.

Config notes:

For elasticsearch:

set ***xpack.security.enabled: true*** to have basic authentication

set the cluster and node name.

For kibana:

set the server host as the public IP of the machine, if left as “localhost” remote connections are not possible.

Set kibana password using the **elasticsearch-setup-passwords interactive** command (add password to kibana.yml file)

Open port 5601 in firewall to give remote access to kibana.

Create an elasticsearch superuser and kibana admin:

elasticsearch-users useradd [username] -p [password] -r superuser, kibana\_admin

*\*Install chkconfig to be able to register elasticsearch and kibana with systemd*

**\***For dashboard only user functionality:

- In space privileges: Grant read access to dashboard app and grant read access to individual index (ices)

**Possible dashboards**

* Student subject grades
* Attendance
* Students
* Class group assignments