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Thank you for enrolling in our Elasticsearch course!

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First things first - here are links to the slides for the course, so

you can keep them for future reference. There are three versions of this course out there for Elasticsearch 5, 6, and 7 – so be sure

to follow along for the version you're taking as you go through

this page.

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Elasticsearch 5: http://media.sundogsoft.com/es/ElasticStack.pdf

Elasticsearch 6: http://media.sundog-soft.com/es6/ElasticStack.pdf

Elasticsearch 7: http://media.sundog-soft.com/es7/ElasticStack7.pdf

These slides also contain text versions of the various snippets of pata Bases code and configuration we use in the course. You can save time

in the course activities by copying and pasting from the slides.

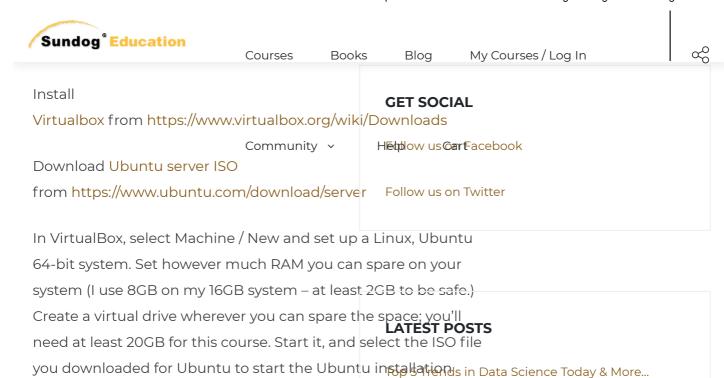
Join our Facebook Group

If you'd like to connect and collaborate with fellow students, consider joining our spam-free Facebook Group for the course at

https://www.facebook.com/groups/38983076811346

Setup Instructions

Setting Up a Virtual Machine (if you don't have an Ubuntu system)



otherwise, and enter whatever username and passwords Doing Good & More!
want for your root account. When prompted to write changes to
disk, select "yes". You can change selections using the TAB key,
and confirm selections with ENTER.

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In VirtualBox, bring up the settings for your Ubuntuevirtual
machine, and select Network, then advanced, and hit the port
The Future of Data Bases
forwarding button. Add an entry for "Elasticsearch" for TCP on
host IP 127.0.0.1, and enter 9200 for the host port and guest port.

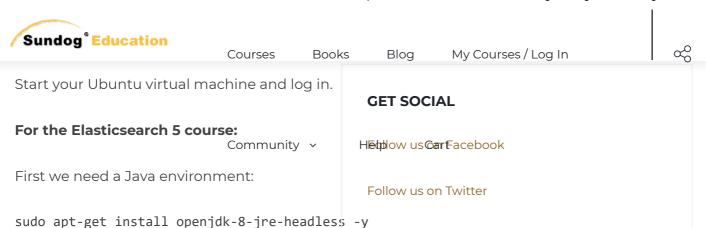
Leave the Guest IP blank. Also add a "Kibana" entry in the same way, with port 5601, and an "SSH" entry, with port 22. **On MacOS**, you may have a conflict with port 22 – so try setting the host port for SSH to 2222 instead, and connect to your virtual server using port 2222 instead of 22 as shown in the course videos.

process. Go with the defaults unless you have reason to do

VirtualBox Troubleshooting

If you are running the Avast anti-virus program, it will conflict with VirtualBox. There is a registry hack that gets around the problem, but you might consider switching to Microsoft's free Windows Defender instead while using this course.

Don't forget to check your BIOS settings if you're having trouble. Virtualization needs to be enabled, and I've seen reports of "Hyper-V" virtualization causing problems if it's on.



Now we can install Flasticsearch itself:

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wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsear

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sudo apt-get install apt-transport-https

sudo apt-get install openjdk-8-jdk-headless -y

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echo "deb https://artifacts.elastic.co/packages/5.x/apt sta

tee -a /etc/apt/sources.list.d/elastic-5.x See What's New in Apache Spark 3!

sudo apt-get update && sudo apt-get install elasticsearch

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Now, edit the elasticsearch.yml file:

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sudo vi /etc/elasticsearch/elasticsearch.yml

Change network.host to 0.0.0.0 (in vi, use the arrow keys to where you want to edit, then hit "i" to enter "insert mode" and make your edits. When done, hit ESC to exit "insert mode", then type:wq to write your changes and quit vi.)

sudo /bin/systemctl daemon-reload sudo /bin/systemctl enable elasticsearch.service sudo /bin/systemctl start elasticsearch.service

Elasticsearch is now up and running!

Hit 127.0.0.1:9200 from a browser to test it.

For the Elasticsearch 6 course:

```
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sudo apt-get install openjdk-8-jre-headless -y

sudo apt-get install openjdk-8-jdk-headless

-y

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Now we can install Elasticsear contosed finity 

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wget -q0 - https://artifacts.elastic.co/GPG-KEYORDIA subics Facebook

sudo apt-get install apt-transport-https
```

```
echo "deb https://artifacts.elastic.co/packages/6.x/apt sta

tee -a /etc/apt/sources.list.d/elastic-6.x. listatest posts

sudo apt-get update && sudo apt-get install elastadeanch Data Science Today & More...

Now, edit the elasticsearch.yml file:

sudo vi /etc/elasticsearch/elasticsearch.yml

See What's New in Apache Spark 3!

Change network.host to 0.0.0.0 (in vi, use the arrow keys to Learning! where you want to edit, then hit "i" to enter "insert mode" and make your edits. When done, hit ESC to exit "insert mode", then The Future of Data Bases type :wq to write your changes and quit vi.)
```

sudo /bin/systemctl daemon-reload
sudo /bin/systemctl enable elasticsearch.service
sudo /bin/systemctl start elasticsearch.service
Elasticsearch is now up and running!

Hit 127.0.0.1:9200 from a browser to test it.

For the Elasticsearch 7 Course:

After logging into your virtual Ubuntu server, use the following commands to install Elasticsearch itself:

wget -q0 - https://artifacts.elastic.co/GPG-KEY-elasticsear
sudo apt-get install apt-transport-https

echo "deb https://artifacts.elastic.co/packages/7.x/apt sta

```
Courses Books Blog My Courses / Log In sudo apt-get update && sudo apt-get install elasticsearch

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Next, edit the Elasticsearch configuration using vi:

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sudo vi /etc/elasticsearch/elasticsearch.yml

Uncomment the node.name line (in vi, use the arrow Keys to Twitter

where you want to edit, then hit "i" to enter "insert mode" and make your edits.)
```

```
Change network.host to 0.0.0.0, discovery.seed.hosts to

["127.0.0.1"], and cluster.initial_master_nodes to ["nafest posts

When done, hit ESC to exit "insert mode", then type wartenwriteData Science Today & More...

your changes and quit vi.

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sudo /bin/systemctl daemon-reload

sudo /bin/systemctl enable elasticsearch.service What's New in Apache Spark 3!

sudo /bin/systemctl start elasticsearch.service

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Elasticsearch is now up and running! Or, it will be in a couple of

minutes after everything spins up.

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```

Troubleshooting

If Elasticsearch doesn't seem to be running, give it a few minutes and try again. But you may be encountering an issue specific to Ubuntu 16.04 that has a workaround described at https://lxadm.com/Problems_starting_elasticsearch_in_Ubuntu

Install the Shakespeare Search Index in Elasticsearch 5:

```
wget http://media.sundog-soft.com/es/shakes-mapping.json
curl -XPUT 127.0.0.1:9200/shakespeare --data-binary @shakes
wget http://media.sundog-soft.com/es/shakespeare.json
curl -XPOST '127.0.0.1:9200/shakespeare/_bulk' --data-binar
curl -XGET '127.0.0.1:9200/shakespeare/_search?pretty' -d '
```

```
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"text_entry": "to be or not to be"

}

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```

Install the Shakespeare Search Index in Elasticsearch 6:

```
wget http://media.sundog-soft.com/es6/shakes-mapping.json
                                                 LATEST POSTS
curl -H 'Content-Type: application/json' -XPUT 127.0.0.1:92
                                                 Top 5 Trends in Data Science Today & More...
--data-binary @shakes-mapping.json
                                                 8 Ways AI is Doing Good & More!
wget http://media.sundog-soft.com/es6/shakespeare_6.0.json
                                                 See What's New in Apache Spark 3!
curl -H 'Content-Type: application/json' -XPOST
'localhost:9200/shakespeare/_doc/_bulk?pretty'<sub>Cātchthe</sub> binar in Data Science & Machine
@shakespeare_6.0.json
                                                 Learning!
curl -H 'Content-Type: application/json' -XGETThe Future of Data Bases
'127.0.0.1:9200/shakespeare/_search?pretty -d '
"query" : {
"match_phrase" : {
"text_entry" : "to be or not to be"
```

Install the Shakespeare Search Index in Elasticsearch 7:

```
wget http://media.sundog-soft.com/es7/shakes-mapping.json
```



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wget http://media.sundog-soft.com/es7/shakespeger sociApn
curl -H 'Content-Type: application' -XPOSFtblow us@arFacebook
'127.0.0.1:9200/shakespeare/_bulk?pretty' --data-binary
                                              Follow us on Twitter
@shakespeare_7.0.json
curl -H 'Content-Type: application/json' -XGET
'127.0.0.1:9200/shakespeare/_search?pretty' -d '
                                              LATEST POSTS
"query" : {
"match_phrase" : {
```

"text_entry" : "to be or not to be"

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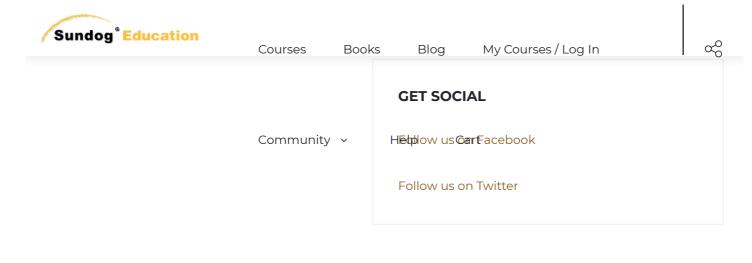
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https://sundog-education.com/elasticsearch/



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