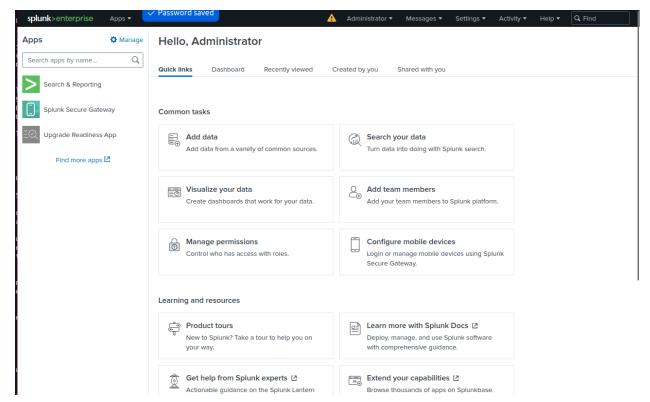
#### Task 1:

```
timothyd@ubuntu:~$ sudo dpkg -i ~/Downloads/splunk*.deb
Selecting previously unselected package splunk.
(Reading database ... 259129 files and directories currently installed.)
Preparing to unpack .../splunk-9.2.1-78803f08aabb-linux-2.6-amd64.deb ...
Unpacking splunk (9.2.1+78803f08aabb) ...
```

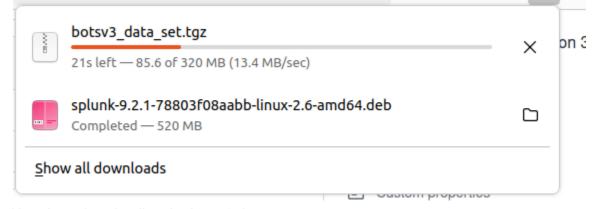
In this step, I have created a splunk account and downloaded the .deb file. Then I installed the DEB through my terminal.

```
timothyd@ubuntu:~$ sudo /opt/splunk/bin/splunk start
SPLUNK GENERAL TERMS
Last Updated: August 12, 2021
These Splunk General Terms ("General Terms") between Splunk Inc., a Delaware
corporation, with its principal place of business at 270 Brannan Street, San
Francisco, California 94107, U.S.A ("Splunk" or "we" or "us" or "our") and you
("Customer" or "you" or "your") apply to the purchase of licenses and subscriptions for Splunk's Offerings. By clicking on the appropriate button,
or by downloading, installing, accessing or using the Offerings, you agree to
these General Terms. If you are entering into these General Terms on behalf of Customer, you represent that you have the authority to bind Customer. If you
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or use any of the Offerings.
See the General Terms Definitions Exhibit attached for definitions of
capitalized terms not defined herein.
1. License Rights
(A) General Rights. You have the nonexclusive, worldwide, nontransferable and
nonsublicensable right, subject to payment of applicable Fees and compliance
```

Here, I have started Splunk in my Ubuntu VM.



In this step, I am now in my browser and have logged in.



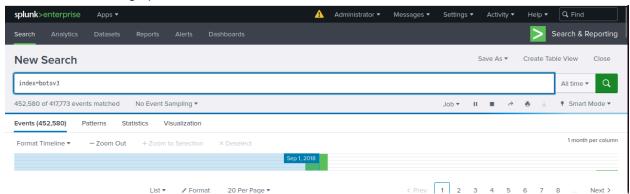
Here I am downloading the botsv3 dataset.

```
timothyd@ubuntu:~$ sudo mv ~/Downloads/botsv3_data_set.tgz /opt/splunk/etc/apps/
timothyd@ubuntu:~$ sudo gunzip /opt/splunk/tec/apps/botsv3_data_set.tgz
gzip: /opt/splunk/tec/apps/botsv3_data_set.tgz: No such file or directory
timothyd@ubuntu:~$ sudo gunzip /opt/splunk/etc/apps/botsv3_data_set.tgz
timothyd@ubuntu:~$ sudo tar -xvf /opt/splunk/etc/apps/botsv3_data_set.tar -C /opt/splunk/etc/apps/
botsv3_data_set/
botsv3_data_set/lockups/
botsv3_data_set/lockups/
botsv3_data_set/bin/
botsv3_data_set/bin/
botsv3_data_set/default/
botsv3_data_set/default/
botsv3_data_set/default/
botsv3_data_set/default/indexes.conf
botsv3_data_set/default/indexes.conf
botsv3_data_set/default/props.conf
botsv3_data_set/default/props.conf
botsv3_data_set/default/fata/
botsv3_data_set/default/data/
botsv3_data_set/default/data/
botsv3_data_set/default/data/ui/
botsv3_data_set/default/data/ui/
botsv3_data_set/default/data/ui/
botsv3_data_set/default/data/ui/
botsv3_data_set/default/data/ui/views/
```

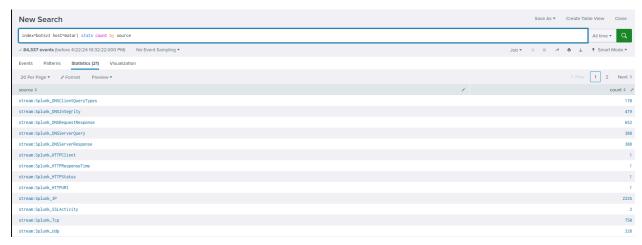
In this step, I have moved the .tgz file and then unzipped it.

```
timothyd@ubuntu:~$ sudo /opt/splunk/bin/splunk restart
Stopping splunkd...
Shutting down. Please wait, as this may take a few minutes.
...
Stopping splunk helpers...
Done.
Splunk> The IT Search Engine.
```

Here, I am restarting splunk.



In this step, I have navigated to the search page and then changed the time scope to all-time. I am now searching for "index=botsv3".



In this step, we were able to change the search to "index=btosv3 host=matar | stats count by source".

```
J
   reply_time: 4676
   request_time: 349994
  response_code: 250
  response_time: 0
   sender: Grace Hoppy <ghoppy@froth.ly>
   sender_alias: Grace Hoppy
   sender_email: ghoppy@froth.ly
   server_response: 250 2.0.0 Ok: queued as 6C7831794E8
   src_ip: 104.47.38.43
  src_mac: 06:E3:CC:18:AA:33
   src_port: 1920
  subject: Fw: All your datas belong to us
  time_taken: 354670
  timestamp: 2018-08-20T15:19:34.777033Z
  transport: tcp
Show as raw text
host = matar | source = stream:smtp | sourcetype = stream:smtp
```

After selecting "stream:smtp" and the "View Events" I am able to see this email from Grace Hoppy with the subject saying "All your datas belong to us".

}

```
receiver_type: L L+J
   reply_time: 4096
   request_time: 191827
   response_code: 250
   response_time: 0
   sender: HyunKi Kim<hyunki1984@naver.com>
   sender_alias: HyunKi Kim
   sender_email: hyunki1984@naver.com
   server_response: 250 2.0.0 Ok: queued as EC0431794E8
   src_ip: 104.47.34.50
   src_mac: 06:E3:CC:18:AA:33
   src_port: 61105
   subject: All your datas belong to us
   time_taken: 195923
   timestamp: 2018-08-20T15:15:00.143986Z
   transport: tcp
}
Show as raw text
```

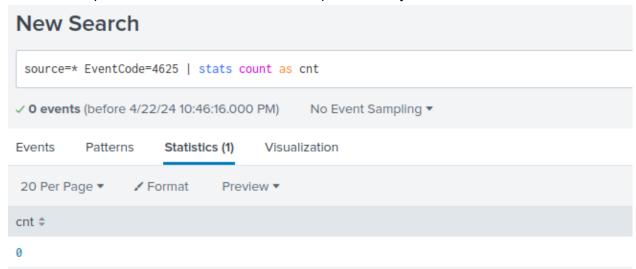
After adding "subject:All your datas\*", we were able to find this email with the ip 10.47.34.50.



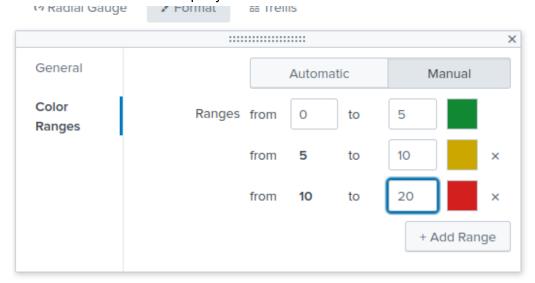
Here I have made a new query to get the top 10 source IP addresses. I am going to save this report.



Here is the report and it can be refreshed and exported at any time.



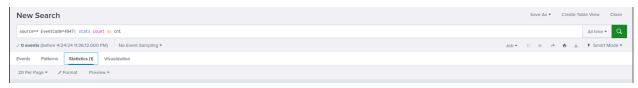
## Here I have created a new query.



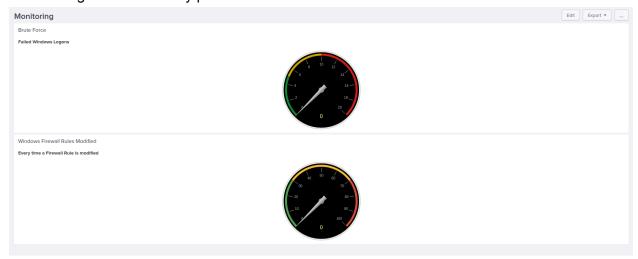
In this step, I am in the visualization tab and am configuring the radial gauge.



Here I have saved it as a new dashboard and added a title and description. The query is returning 0 for some reason which is why the gauge is at 0. I have followed the steps and my query is correct, but it is still resulting in 0 returned.

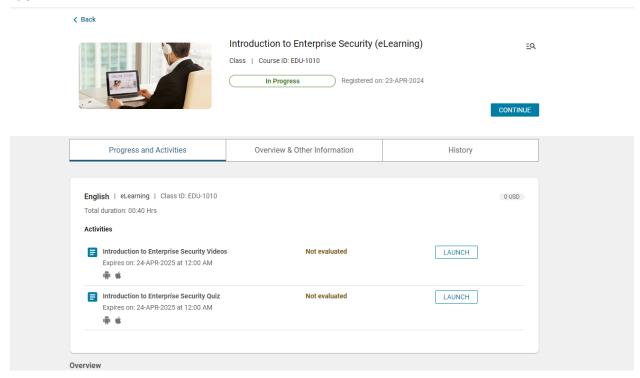


This is a new query that I have made. This will check for all the times that a Windows Firewall exception rule was modified. This is important to track because admins should understand what firewall rules are being implemented. If somebody is trying to change a rule, it should go through an approval process first so that it doesn't cause any future vulnerabilities. If there are many rules being modified, then an admin should go in and review these rules to ensure that they are still allowing for best security practices.



Here is the visualization. Still running into the issue where the queries are returning 0, but I have everything set up.

### Task 2:



Here, I have logged into splunk and enrolled into the course.



PRINT CERTIFICATE



Completed on: 23-APR-2024

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### Introduction to Enterprise Security (eLearning)

Course | ID: EDU-1010

Successful Completed on: 23-APR-2024

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# Certificate of Completion to certify that

Tim Doan

has successfully completed
Introduction to Enterprise Security (eLearning)

23-APR-2024

1 Credit Hours

In this step, I have completed the course.