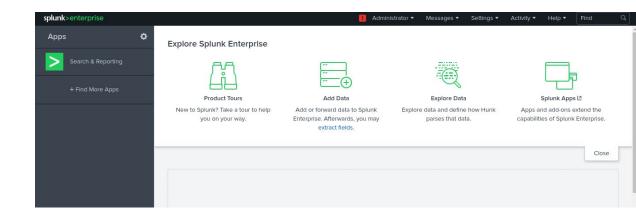
#### **Splunk Tutorial Part-2**

After creating all the instances with Splunk enterprise version we have to connect them

- First We start configuring Mastor Node
- For setting up the Master node, we have to connect to Splunk GUI by entering the http://Master Node's [Public IP]:8000 in search bar
- Then Splunk login page will appear and we have to fill the details with which we created admin & password while setting Splunk enterprise on Instance



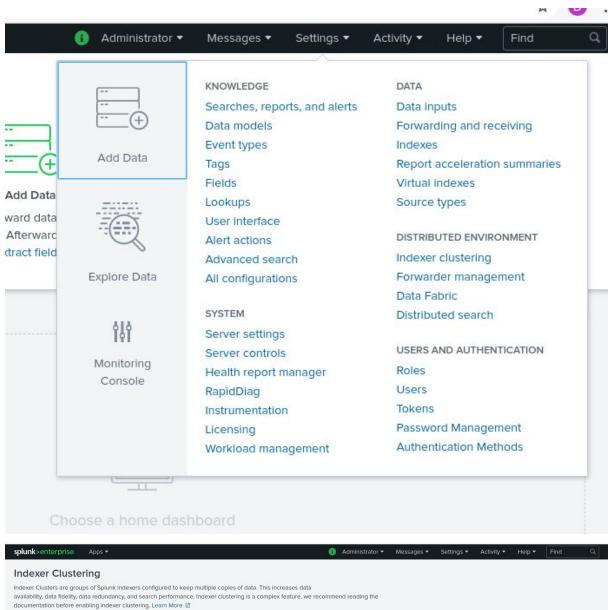
 After Logging in to the Splunk GUI it look similar to the below image



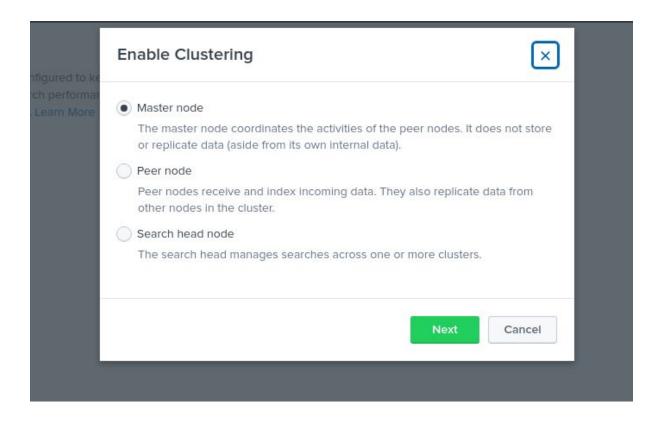
### Configuring Master Node

Then we should go to settings - Indexer clustering - Enable Indexer clustering - (select)

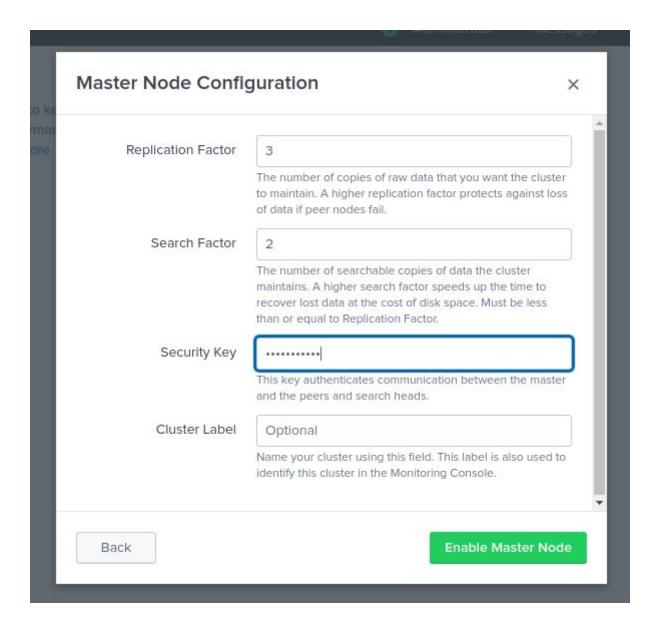
Master node - (click on) Next.







 After clicking on next it will ask you to set Replication Factor, Search Factor, Security Key, Cluster Label.

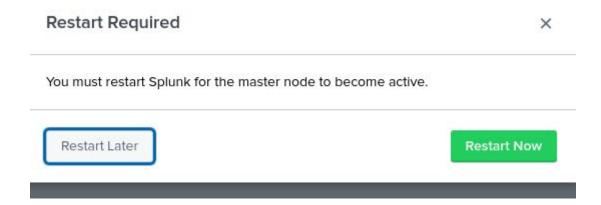


 Replication Factor - Keep the Replication Factor as 3 which is by default.

NOTE: Indexers (peer nodes) should not be less than Replication Factor value.

 Search Factor - Keep the Search Factor as 2 which is by default.

- NOTE: The password which you enter should be same for setting up the peer nodes.
- After clicking on Enable Master Node the Splunk has to be restarted.



 Now Connect to Terminal using SSH and login as root user in terminal.

```
[root@ip-172-31-39-12 local]# cd /opt/splunk/etc/master-apps/_cluster/local
[root@ip-172-31-39-12 local]# vi indexes.conf
```

Now insert the below text in indexes.conf file

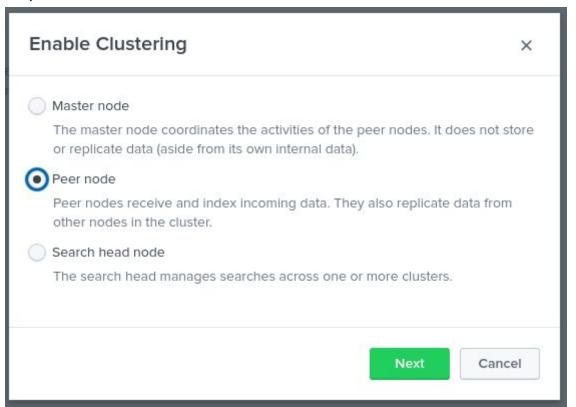
```
[c1index]
homePath = $SPLUNK_DB/c1index/db
coldPath = $SPLUNK_DB/c1index/colddb
thawedPath = $SPLUNK_DB/c1index/thaweddb
repFactor = auto
```

 After pasting the above text SAVE the file and Restart the server.

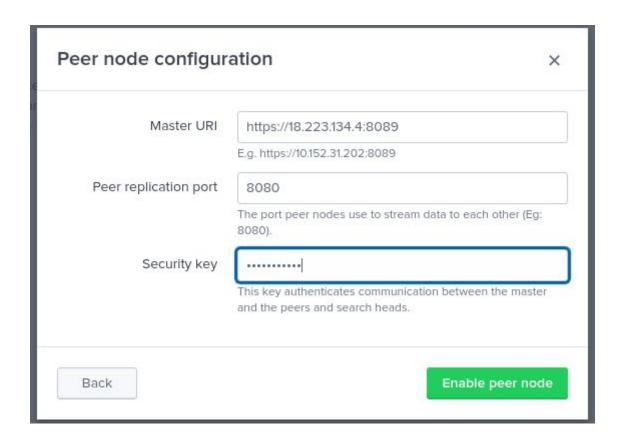
```
[root@ip-172-31-39-12 local]# cd /opt/splunk/bin/
[root@ip-172-31-39-12 bin]# ./splunk stop
Stopping splunkd...
Shutting down. Please wait, as this may take a few minutes.
.. [ OK ]
Stopping splunk helpers...
[ OK ]
Done.
[root@ip-172-31-39-12 bin]# ./splunk start
```

#### **Connecting Peer Nodes To Cluster**

- Now for connecting peer nodes we should login to the Indexer Instance.
- Then we should go to settings Indexer clustering -Enable Indexer clustering - (select) Peer node -(click on) Next.



After clicking on next it will ask you to set Master URI,
 Peer replication port, Security key.



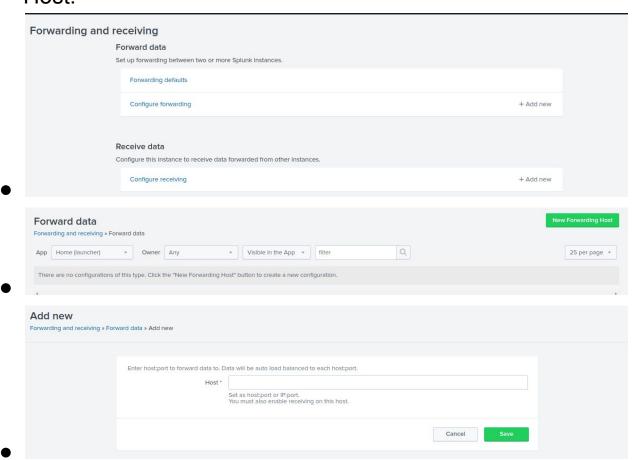
- NOTE: Use same Security Key which we used for configuring Master Node.
- After clicking on Enable Peer Node the Splunk has to be restarted.



 Likewise connect other 2 (Indexer's) peer nodes to cluster.

#### **Heavy Forwarder Configuration**

- Now for connecting peer nodes we should login to the Heavy Forwarder Instance.
- Then we should go to settings Forwarding and Receiving - Configure forwarding - New Forwarding Host.



- After clicking on New Forwarding Host it will ask you to set Host. Host = Host IP:9997
- NOTE: Host IP is nothing but Indexer IP
- After entering Host IP:9997 click on Save and Restart the Splunk.
- Likewise connect host for other 2 Indexers.
- Now Connect to Terminal using and login as root user in terminal

```
[root@ip-172-31-43-19 ~]# cd /opt/splunk/bin/
[root@ip-172-31-43-19 bin]# ./splunk add monitor /var/log
Your session is invalid. Please login.
Splunk username: admin
Password:
Added monitor of '/var/log'.
[root@ip-172-31-43-19 bin]#
```

 To check whether the file has created or not we should use the below commands.

```
[root@ip-172-31-43-19 bin]# cd /opt/splunk/etc/apps/search/local/
[root@ip-172-31-43-19 local]# ls
inputs.conf
[root@ip-172-31-43-19 local]#
```

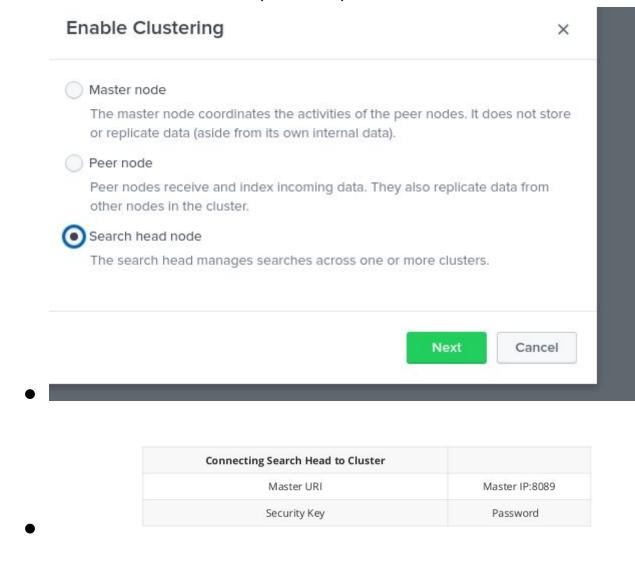
- Above you can see the file has been created.
- Now come to Peer Nodes GUI and go to settings -Forwarding and Receiving - Configure Receiving - New Receiving Port.



Likewise set port for other 2 Indexers.

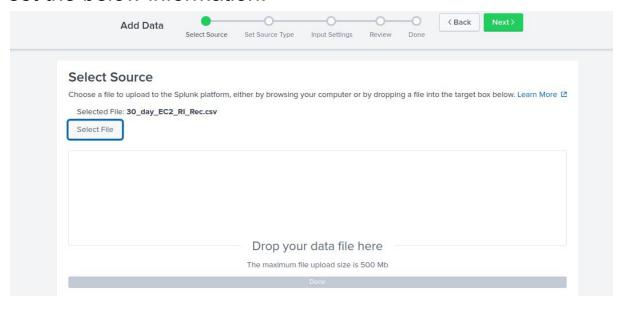
#### **Connecting Search Head to Cluster**

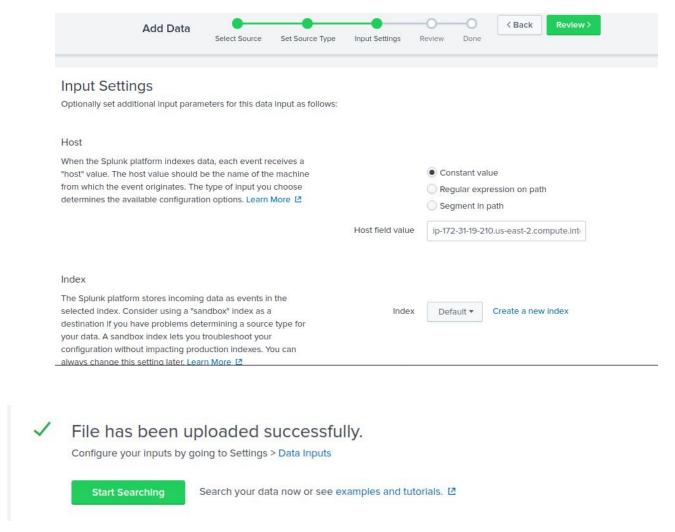
- Login to Search Head Splunk GUI.
- Then we should go to settings Indexer clustering
  - Enable Indexer clustering (select) Search Head node - (click on) Next.



Master IP = Master Node IP

- Security Key: Use same Security Key which we used for configuring Master Node.
- After clicking on Enable Search Head Node the Splunk has to be restarted.
- Download & Upload aws\_30\_days.csv file
- Download the aws\_30\_days.csv and now upload it in Heavy Forwarder GUI by going to settings - Add Data - Upload Data - (click on) Next -(Again click on) Next - Create a new Index.
- After clicking on Create a New Index it will ask you to set the below information.

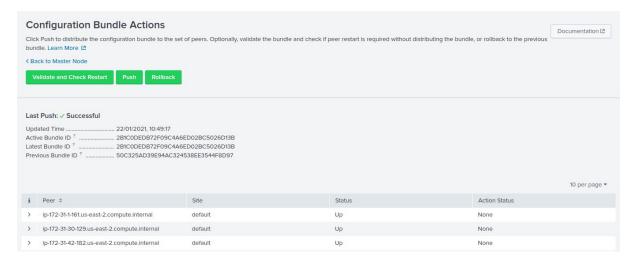




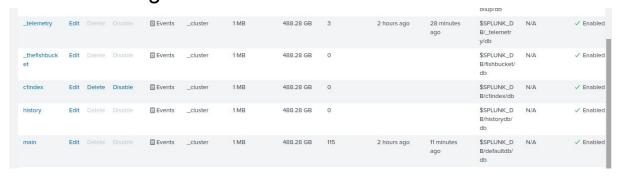
After entering the above Info (click on) SAVE - Review - Submit.

#### **Configuration Bundle: Validate and Push**

 Now login to Mastor Node web interface and Edit Configuration Bundle Actions to Click Validate and Check Restart and push



## Then automatically creates c1index on PEER Nodes.See the below Image



# Now go to one of the Searc head GUI and search for index="c1index". You get information similar to below image,

