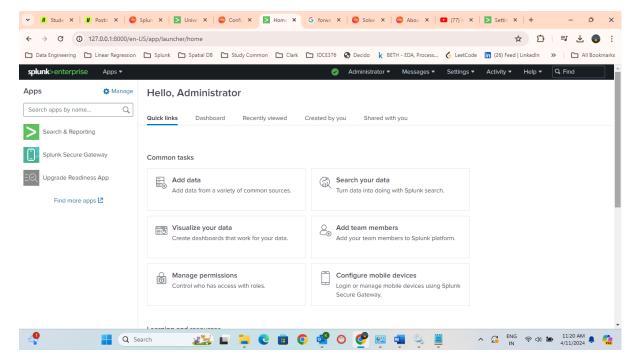
<u>Data Ingestion (Windows real-time performance matrices</u> <u>and Upload method) and Regular Expression Example</u>

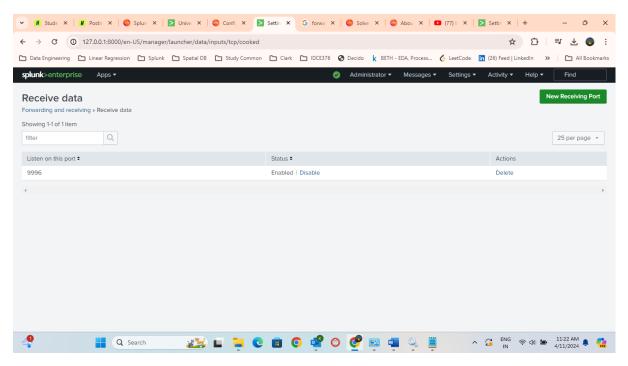
1. Install Splunk on System. Open URL for Splunk enterprise http://127.0.0.1:8000/

2. Login To Splunk Enterprise



FOR WINDOWS PERFORMANCE MATRICES AND WINDOWS LOGS

3. Enable Receiver for Splunk Deployment through Settings > Forwarding and receiving > Receive data > Add New



- 4. **Download Splunk Forwarder for Windows OS from**https://www.splunk.com/en_us/download/universal-forwarder.html . Download 64-bit version. Install with standard options.
- Edit file input.conf [C:\Program Files\SplunkUniversalForwarder\etc\system\local\]. For performance matices of windows systems (like CPU, Memory, disk), and application & security logs.

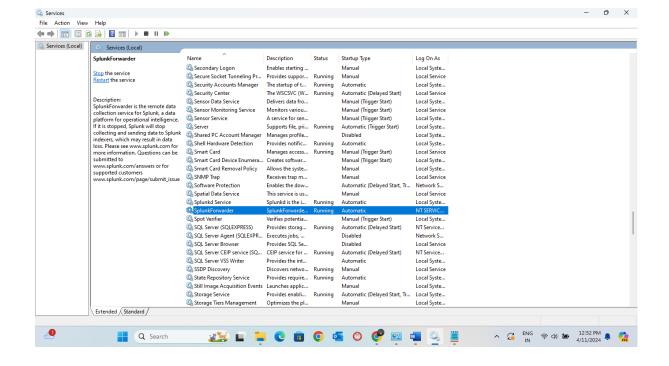
```
[perfmon://Windows__Processor]
counters = % C1 Time;% C2 Time;% Idle Time;% Processor Time;% User Time;% Privileged
Time;% Reserved Time;% Interrupt Time
instances = *
interval = 30
object = Processor
sourcetype = PerfmonMetrics:CPU
disabled = 0
## Memory
[perfmon://Windows__Memory]
counters = Cache Bytes;% Committed Bytes In Use; Page Reads/sec; Pages Input/sec; Pages
Output/sec;Committed Bytes;Available Bytes
interval = 30
object = Memory
sourcetype = PerfmonMetrics:Memory
disabled = 0
## Physical Disk
```

```
[perfmon://Windows__PhysicalDisk]
counters = % Disk Read Time;% Disk Write Time
instances = *
interval = 30
object = PhysicalDisk
sourcetype = PerfmonMetrics:PhysicalDisk
disabled = 0
## Logical Disk
[perfmon://Windows_LogicalDisk]
counters = Free Megabytes;% Free Space
instances = *
interval = 30
object = LogicalDisk
sourcetype = PerfmonMetrics:LogicalDisk
disabled = 0
## Network
[perfmon://Windows__Network Interface]
counters = Bytes Received/sec;Bytes Sent/sec;Packets Received/sec;Packets Sent/sec;Packets
Received Errors; Packets Outbound Errors
instances = *
interval = 30
object = Network Interface
sourcetype = PerfmonMetrics:Network
disabled = 0
## System
[perfmon://Windows__System]
counters = Processor Queue Length; Threads; System Up Time
instances = *
interval = 30
object = System
sourcetype = PerfmonMetrics:System
disabled = 0
## Process
[perfmon://Windows__Process]
counters = % Processor Time;% User Time;% Privileged Time;Elapsed Time;ID Process;Virtual
Bytes; Working Set; Private Bytes; IO Read Bytes/sec; IO Write Bytes/sec
instances = *
interval = 30
object = Process
sourcetype = PerfmonMetrics:Process
disabled = 0
[monitor://$SPLUNK_HOME\var\log\splunk\*.log*]
sourcetype = uf
```

```
disabled = false
   index = _internal
   [WinEventLog://Application]
   checkpointInterval = 10
   current_only = 0
   disabled = 0
   index = hoth_win_logs
   start_from = oldest
   [WinEventLog://Security]
   checkpointInterval = 10
   current_only = 0
   disabled = 0
   index = hoth_win_logs
   start_from = oldest
   [WinEventLog://System]
   checkpointInterval = 10
   current_only = 0
   disabled = 0
   index = hoth_win_logs
   start_from = oldest
   [WinEventLog://Setup]
   checkpointInterval = 10
   current_only = 0
   disabled = 0
   index = hoth_win_logs
   start_from = oldest
6. Edit output.conf [C:\Program Files\SplunkUniversalForwarder\etc\system\local\]. For
   telling destination.
   [tcpout]
   defaultGroup = default-autolb-group
   [tcpout:default-autolb-group]
   server = localhost:9996
```

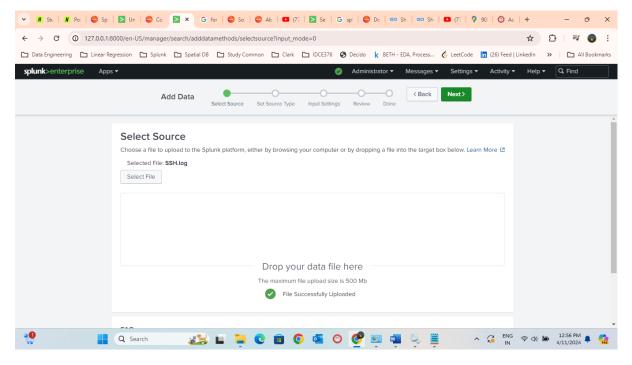
[tcpout-server://localhost:9996]

7. Restart the service

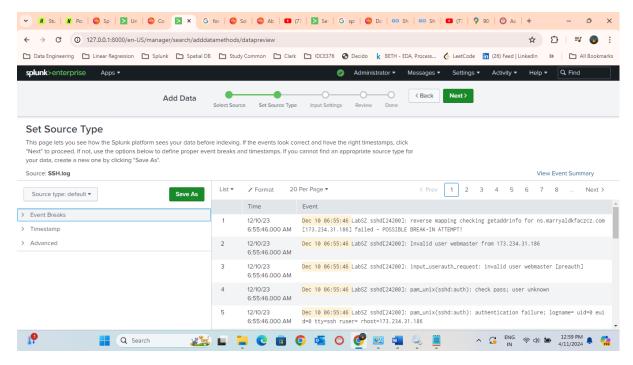


FOR SSH LOGS UPLOAD

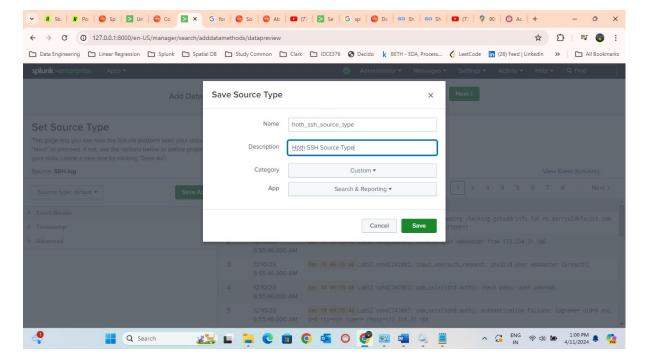
- 8. Upload SSH Datalogs at Settings > Add Data > Upload Data
 - a. SELECT Source [upload SSH.log, then click NEXT]



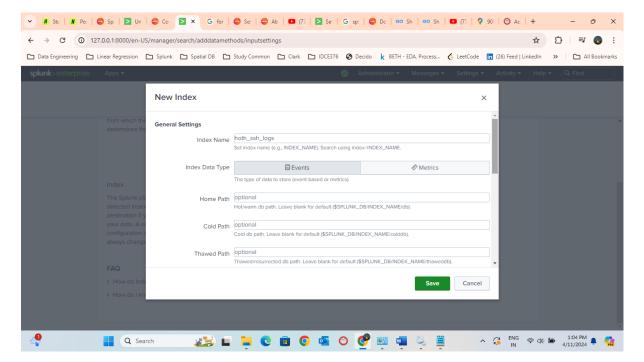
b. Set source Type [Click NEXT]



c. Fill details and click NEXT



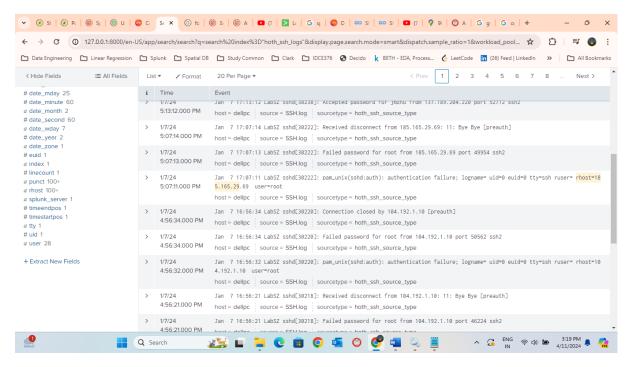
d. Create a new Index



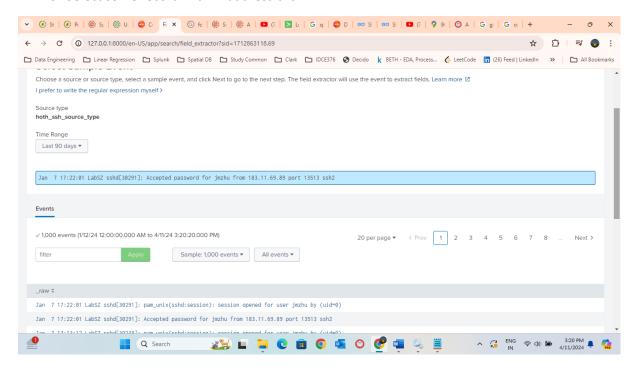
e. Review and Submit.

Regular Expression Example (Extract IP Address)

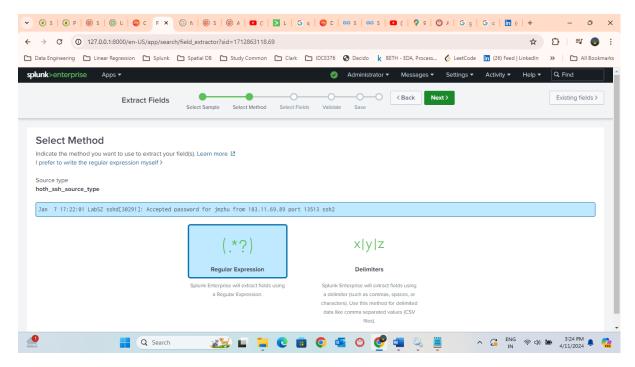
9. Extract New Fields



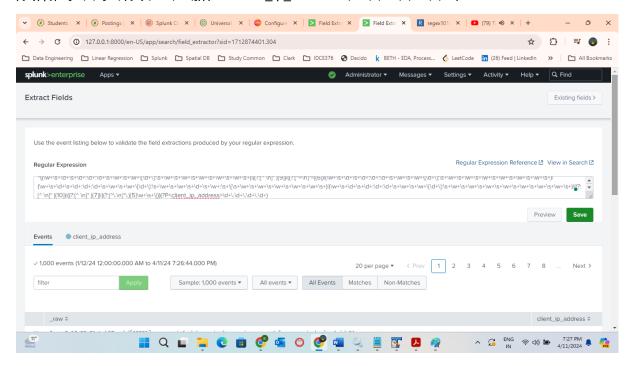
10. Select some record with IP address click NEXT:



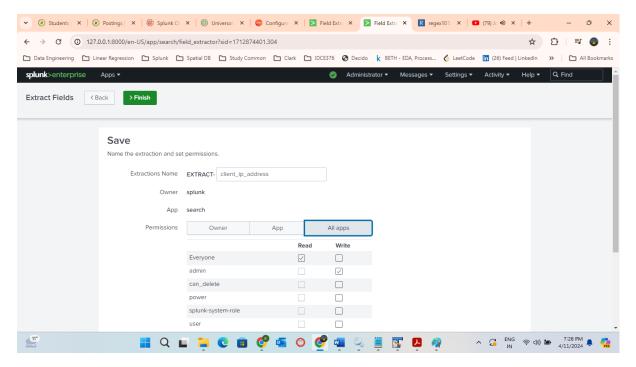
11. Select Regular Expression Option and click NEXT



12. Click on "I prefer to write the regular expression myself" and use below regular expression:



13. Click on Preview and then Save after validation. Change Permissions to "All apps":



14. Do same for user_name. Use below regular expression:

^((.* invalid user)|(.* user)|(.*password for)|((?:[^=\n]*=){7}))(?P<user_name>\w+)