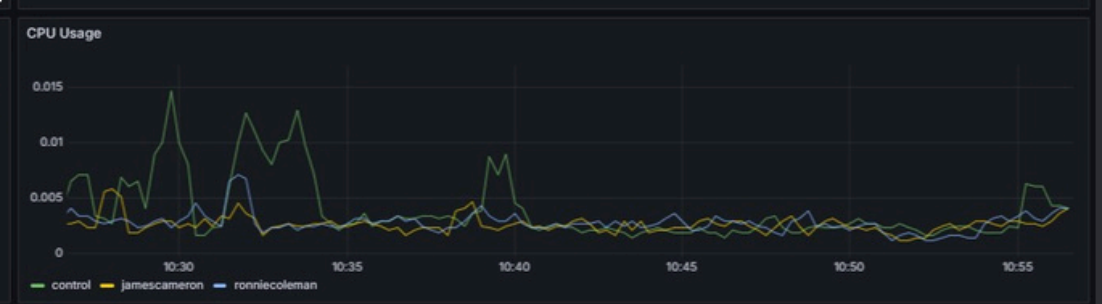
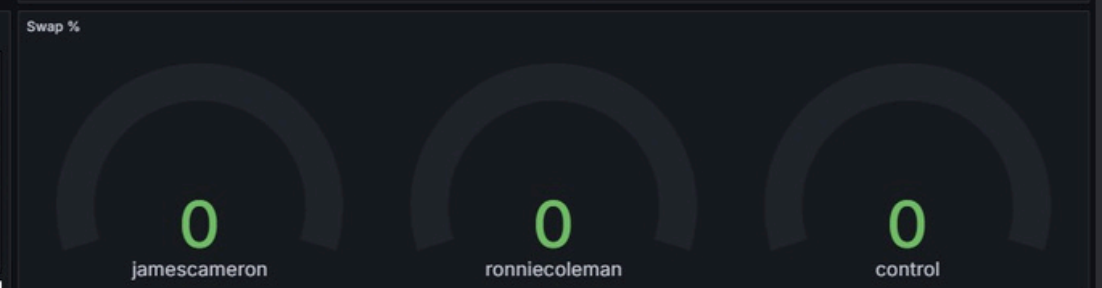
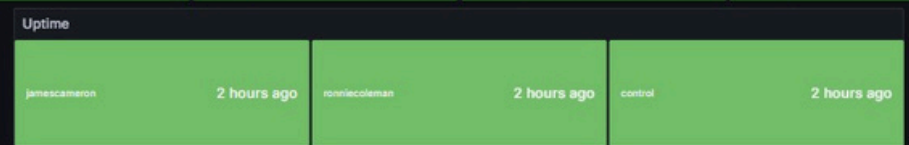
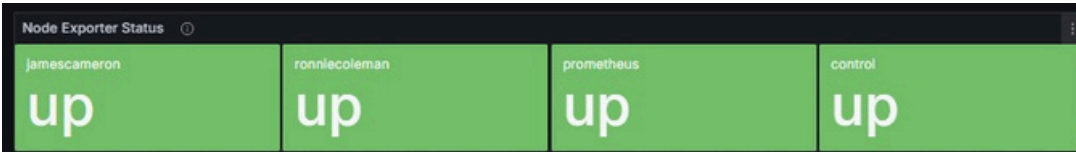


Systems Administrator

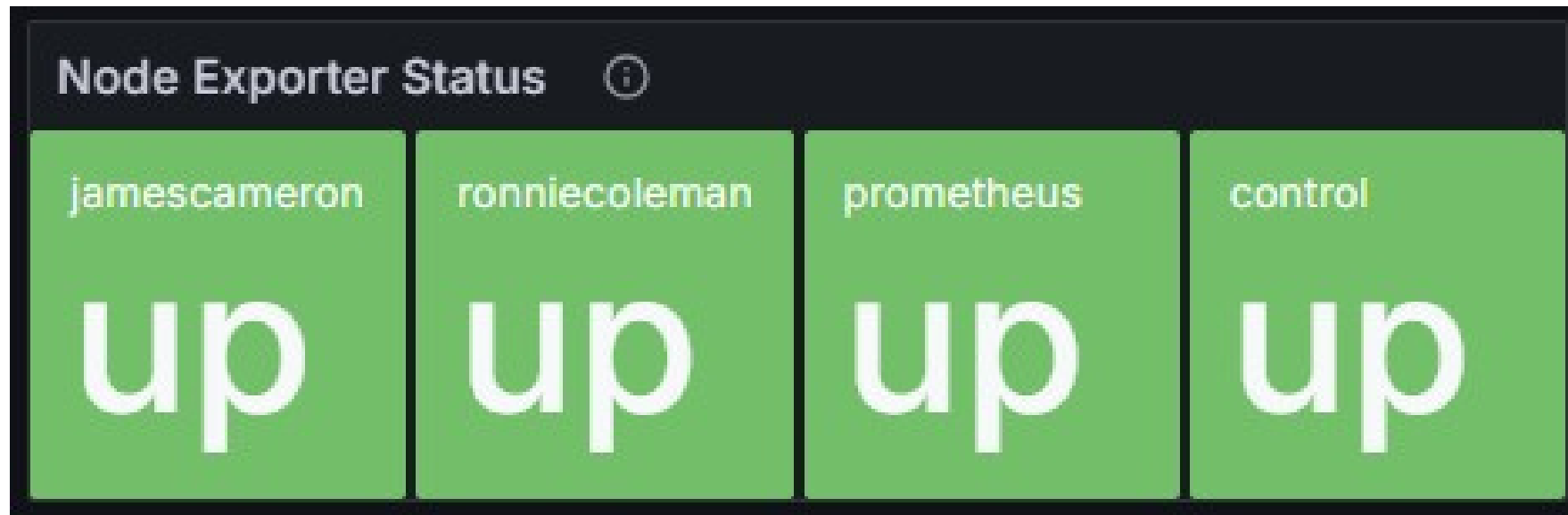
Grafana Dashboard



Node Exporter Status:

Query: up

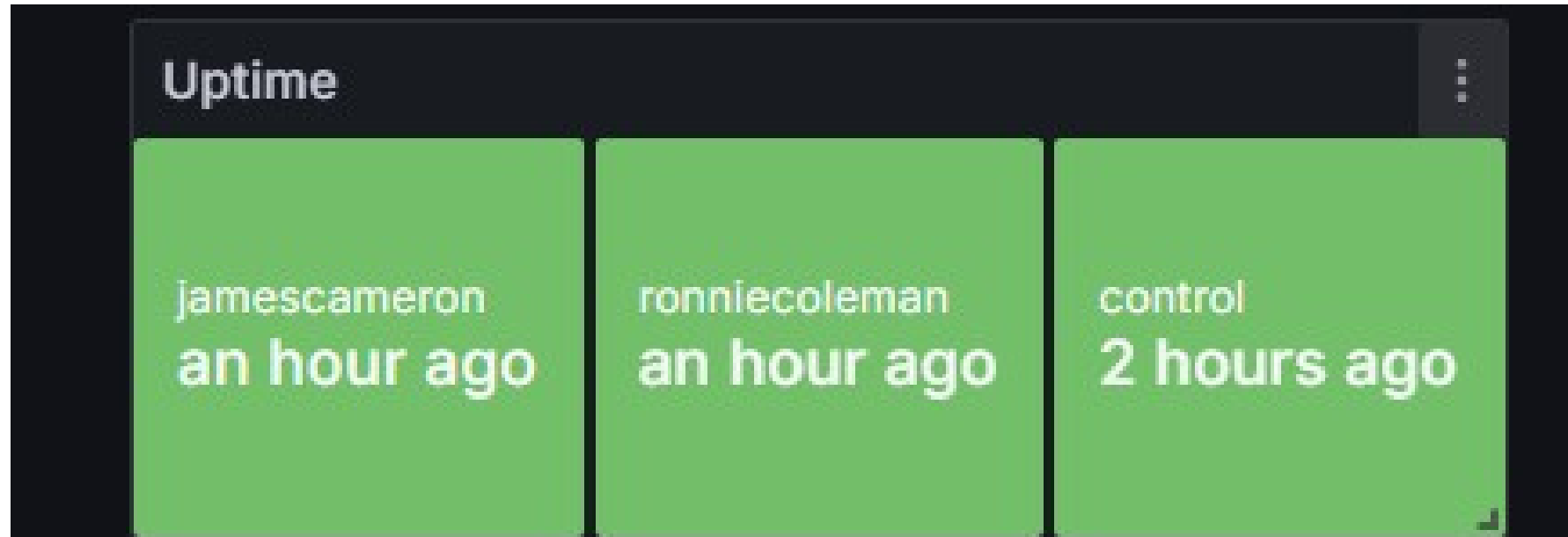
This is useful because it shows whether Node Exporter is running or not on each of the machines.



Uptime:

Query: `node_boot_time_seconds * 1000`

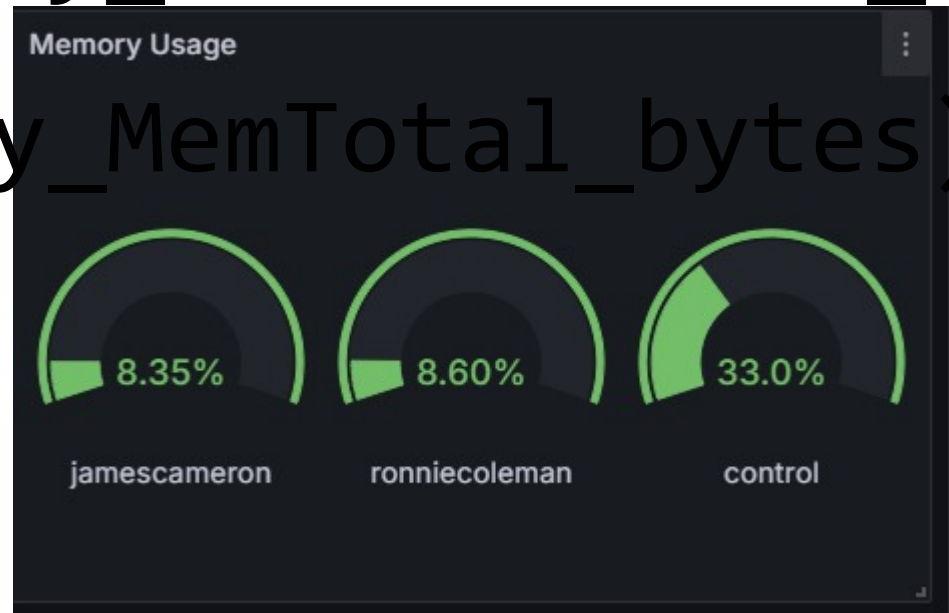
This is useful because knowing how long a machine has been running for is a useful task when trouble shooting issues.



Memory Usage

Query: 1 -

(node_memory_MemAvailable_bytes
node_memory_MemTotal_bytes)



Knowing how much memory your machines are using is important because if it is running high something might be wrong or the machine might need more memory.

Disk Space

Query: (1 -

(node_filesystem_avail_bytes{

mountpoint="/"}/node_filesystem_size

_bytes{ mountpoint="/"}) * 100

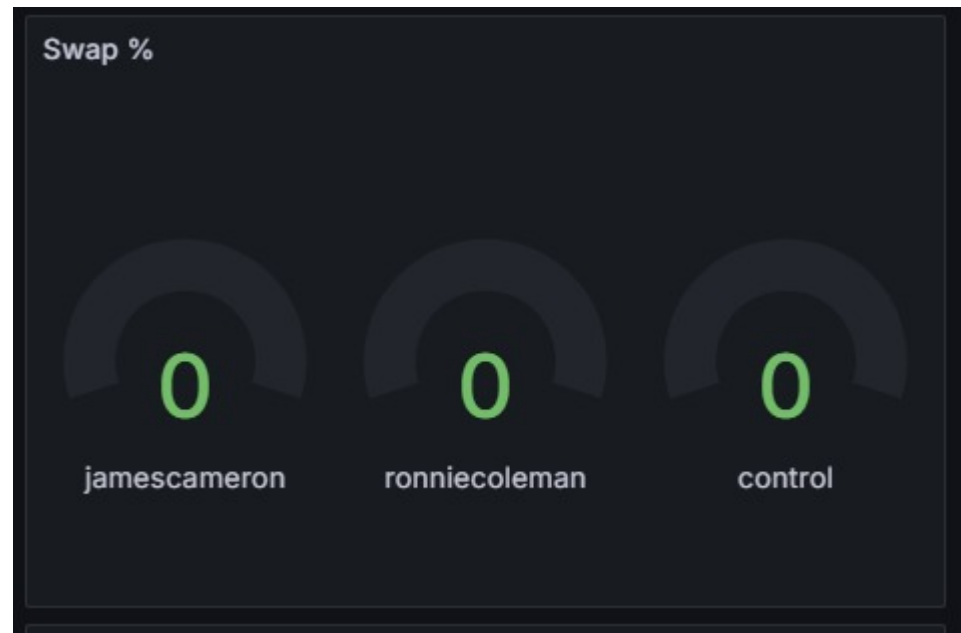


Knowing how much free disk space your machine has is important because it tells you when you need to buy more storage.

Swap %

Query: (1 -

(node_memory_SwapFree_bytes/node_memory_SwapTotal_bytes)) * 100



The system's disk space limits the available swap space. If the swap space is full, the system starts using active memory from your disk.

Disk IO

Query:

```
rate(node_disk_read_bytes_total{device="sda"}[1m])
```

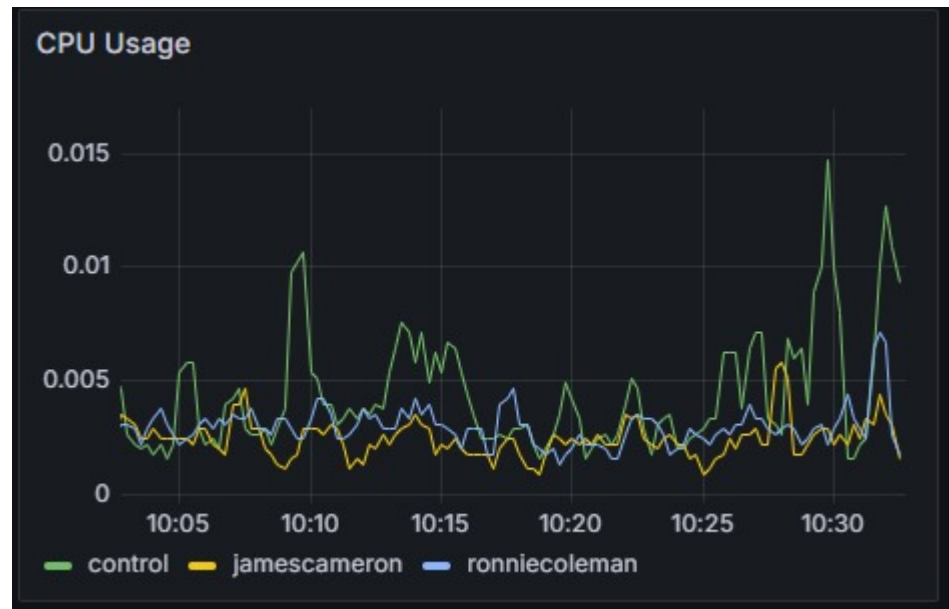


Monitoring your Disk IO is important because if the disk is running at max pace then it causes for any performance issues for the machine.

CPU Usage

sum by

```
(job)(rate(node_cpu_seconds_total{mode!="idle"}[1m]))
```



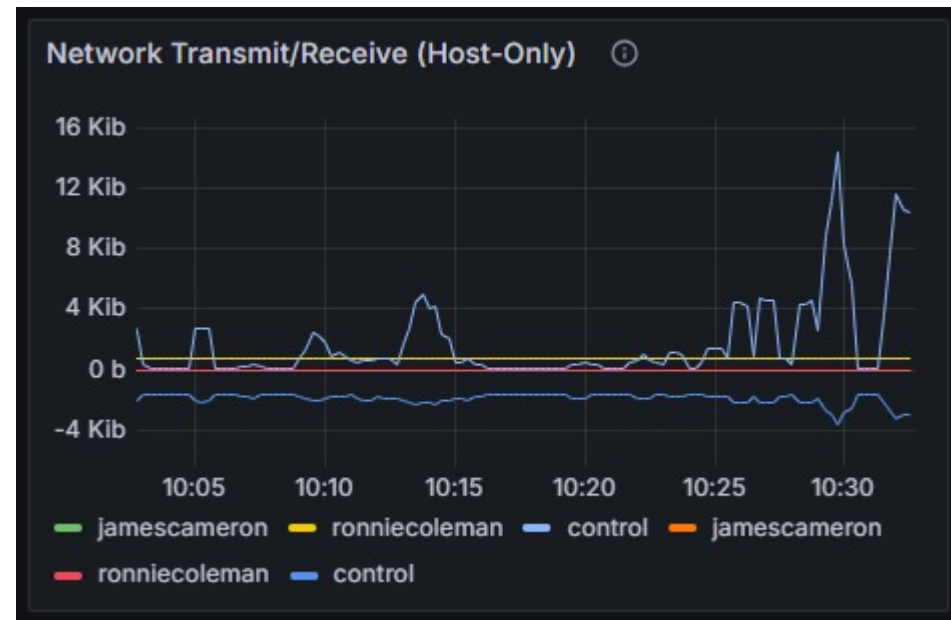
Monitoring the CPU usage is important because it can tell you if there is an issue with one of the applications running on a machine or the need to buy a fast CPU torunsaidapplication

NetworkTransmit/Receive (Host-Only)

Query:

```
rate(node_network_transmit_bytes_total{device="enp0s8"}[1m])  
and  
-1 *  
rate(node_network_receive_bytes_total{device="enp0s8"}[1m])
```

Monitoring Network traffic is important because you to monitor network availability and activity to identify anomalies, maximize performance, and keep an eye out for attacks.



Network Transmit/Receive (Internet)

Query:

```
rate(node_network_transmit_bytes_total{device="enp0s3"}[1m])  
-1 *  
rate(node_network_receive_bytes_total{device="enp0s3"}[1m])
```

Monitoring Network traffic is important because you to monitor network availability and activity to identify anomalies, maximize performance, and keep an eye out for attacks.

