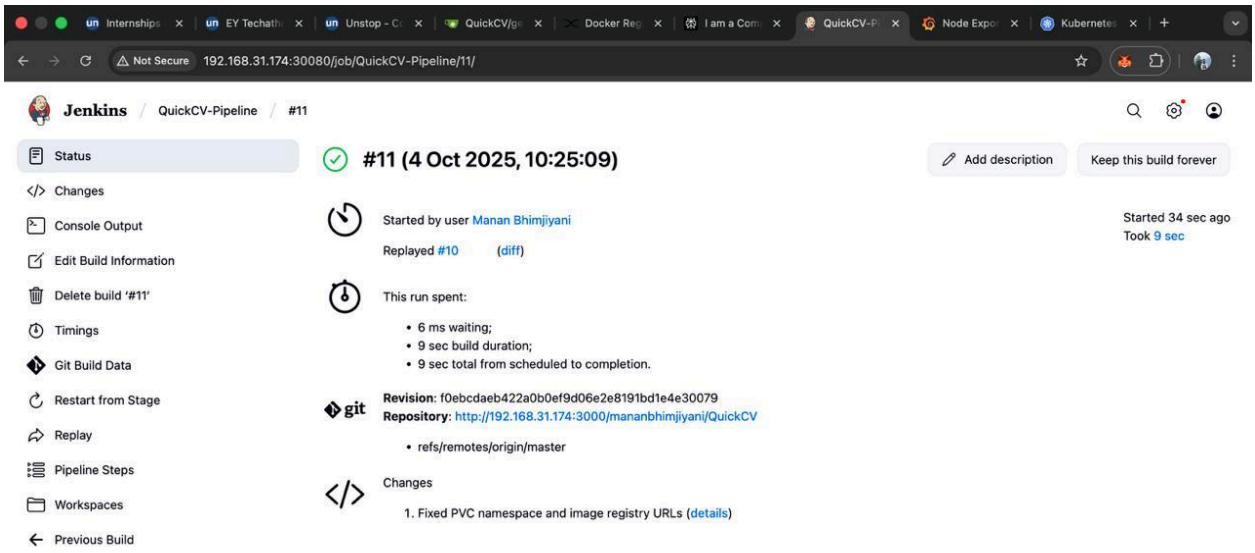
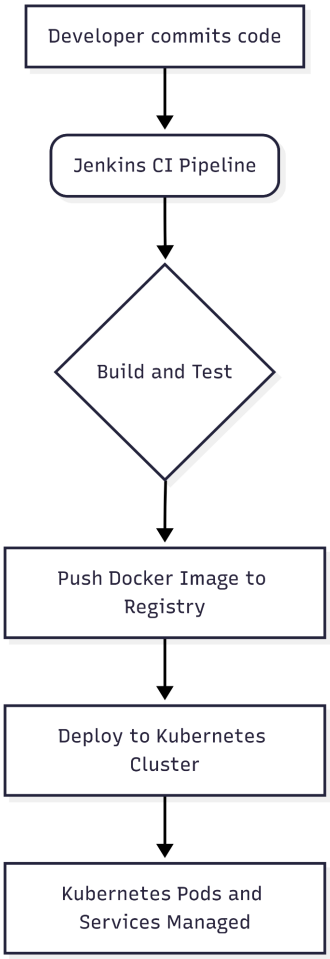
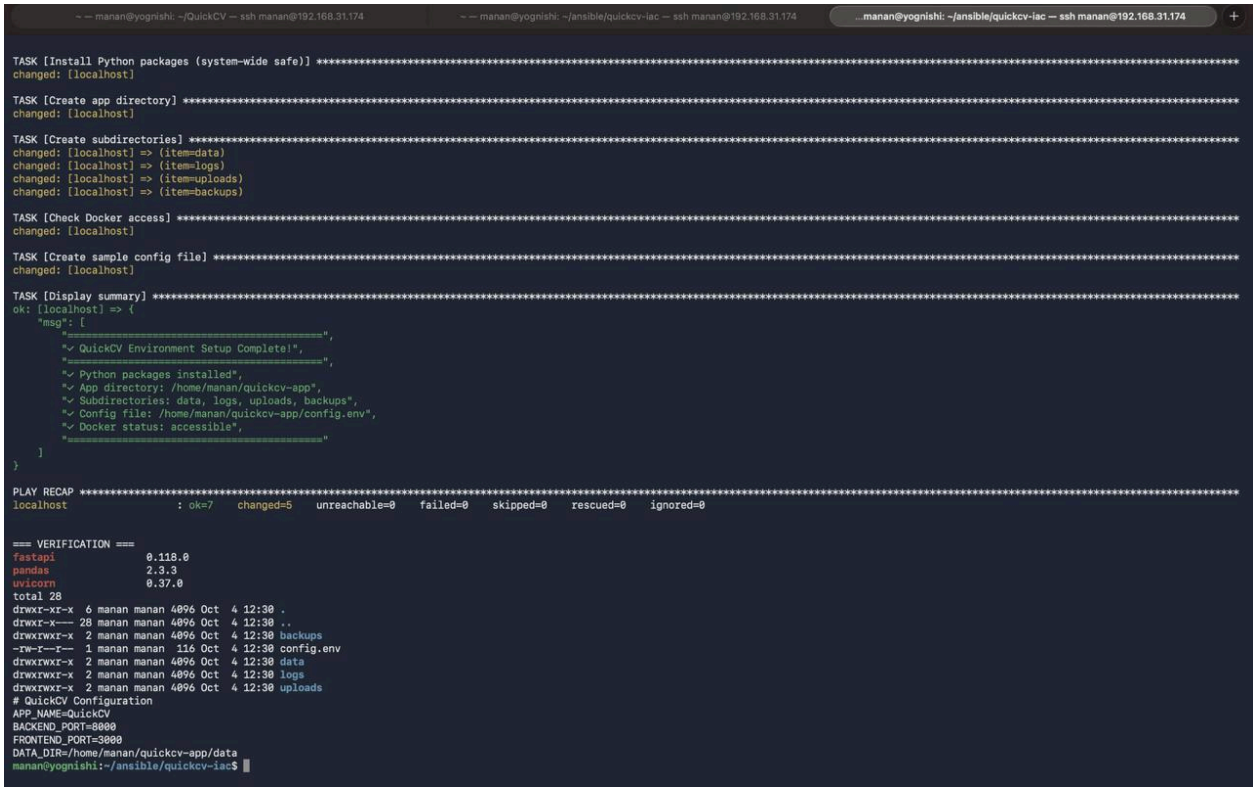
A Collection of Screenshots Illustrating The Workflow of QuickCV

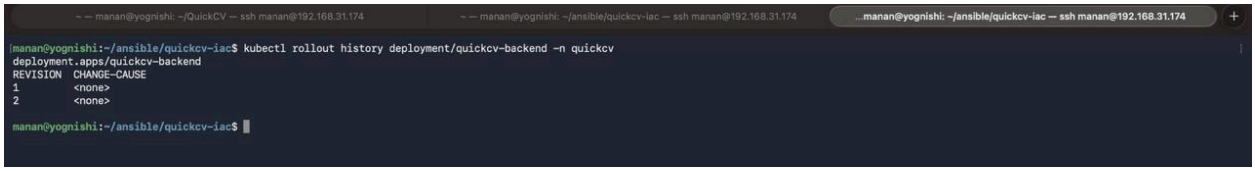
1. Task 1 – Deployment Strategy (Jenkins Pipeline + Pipeline Diagram):

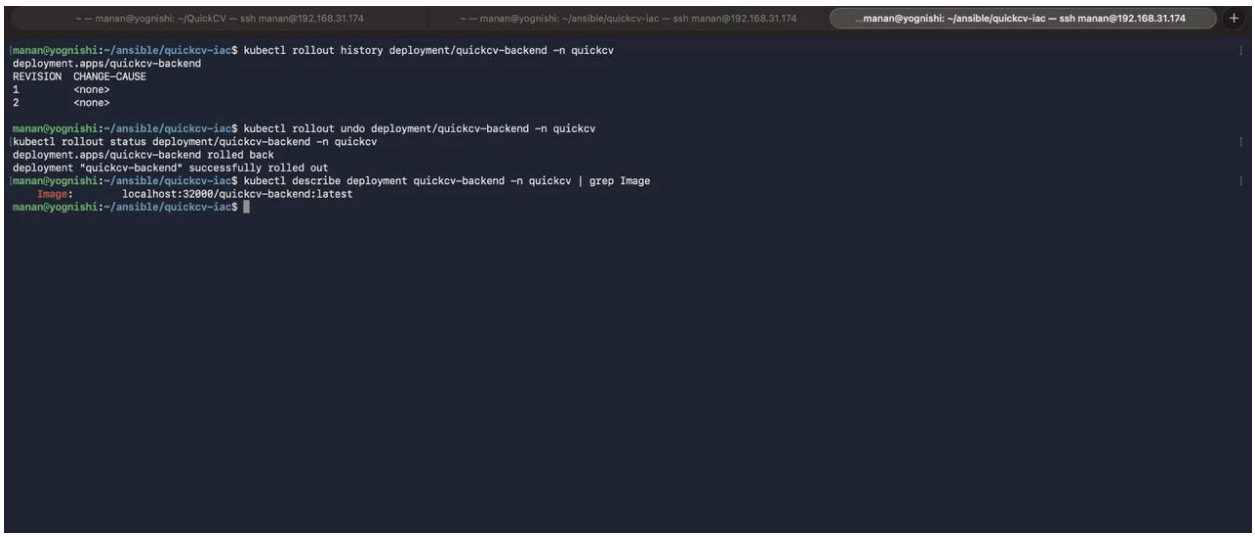




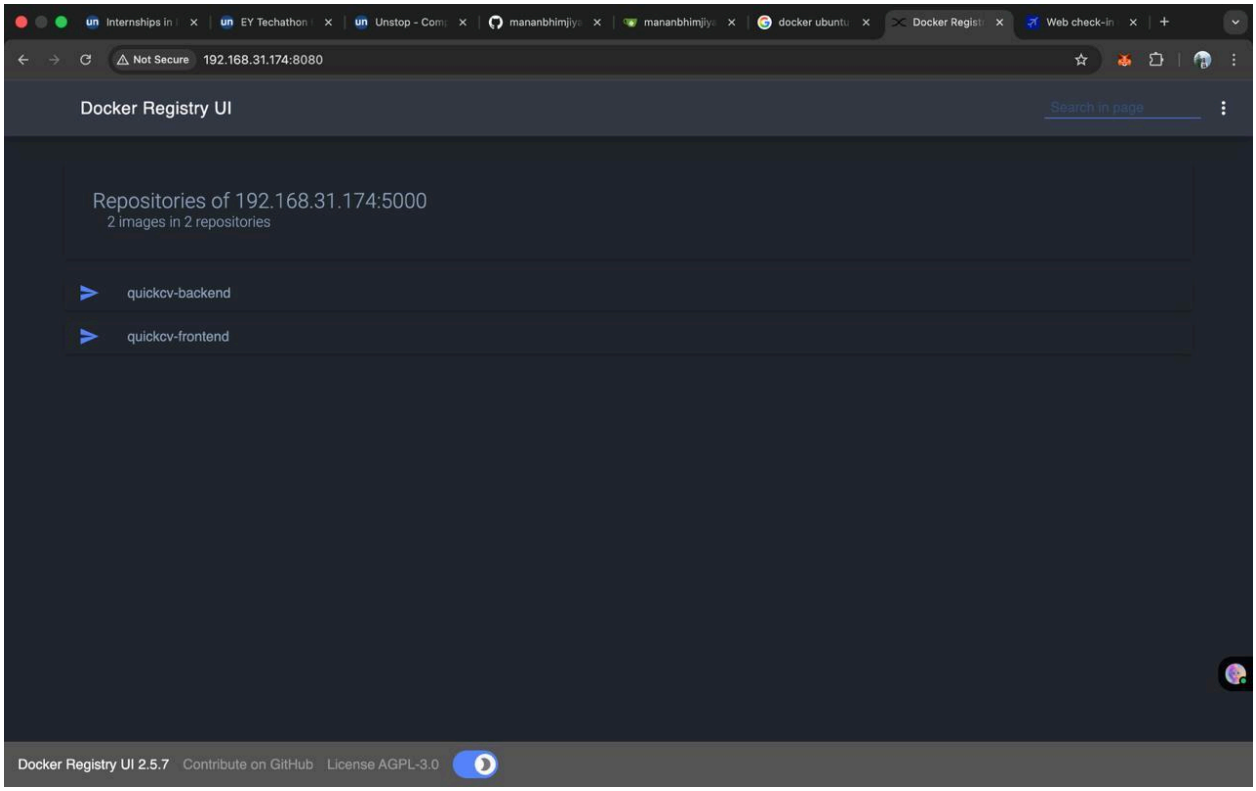
2. Task 2 – Configuration Management & IaC (Ansible Playbook Output + ENV + Docker Status):

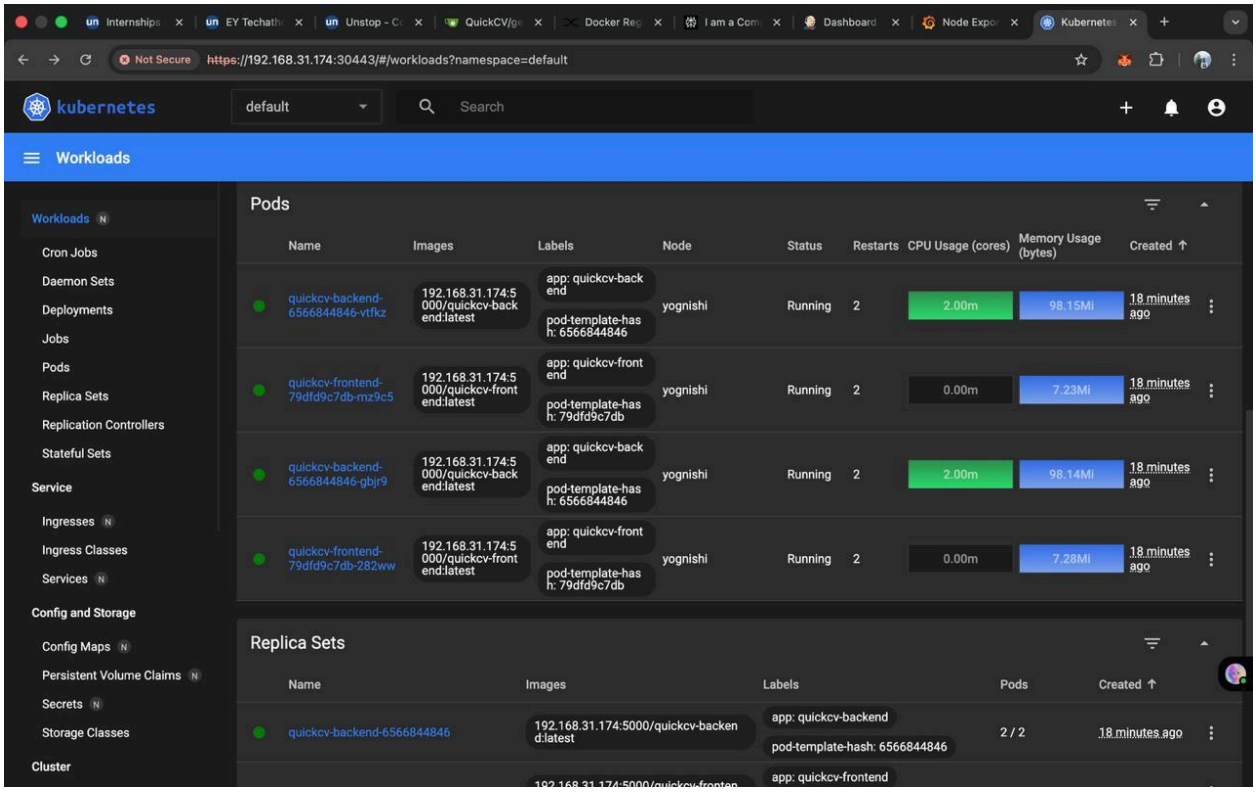


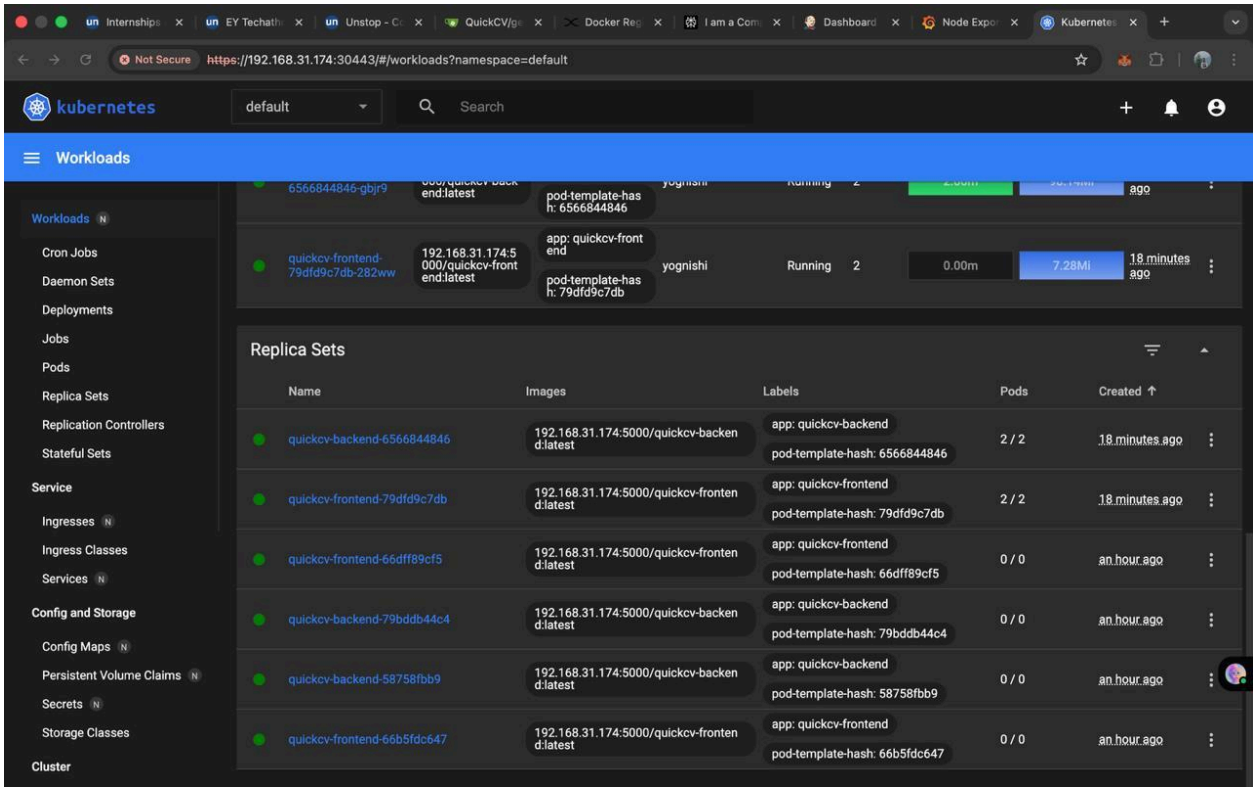


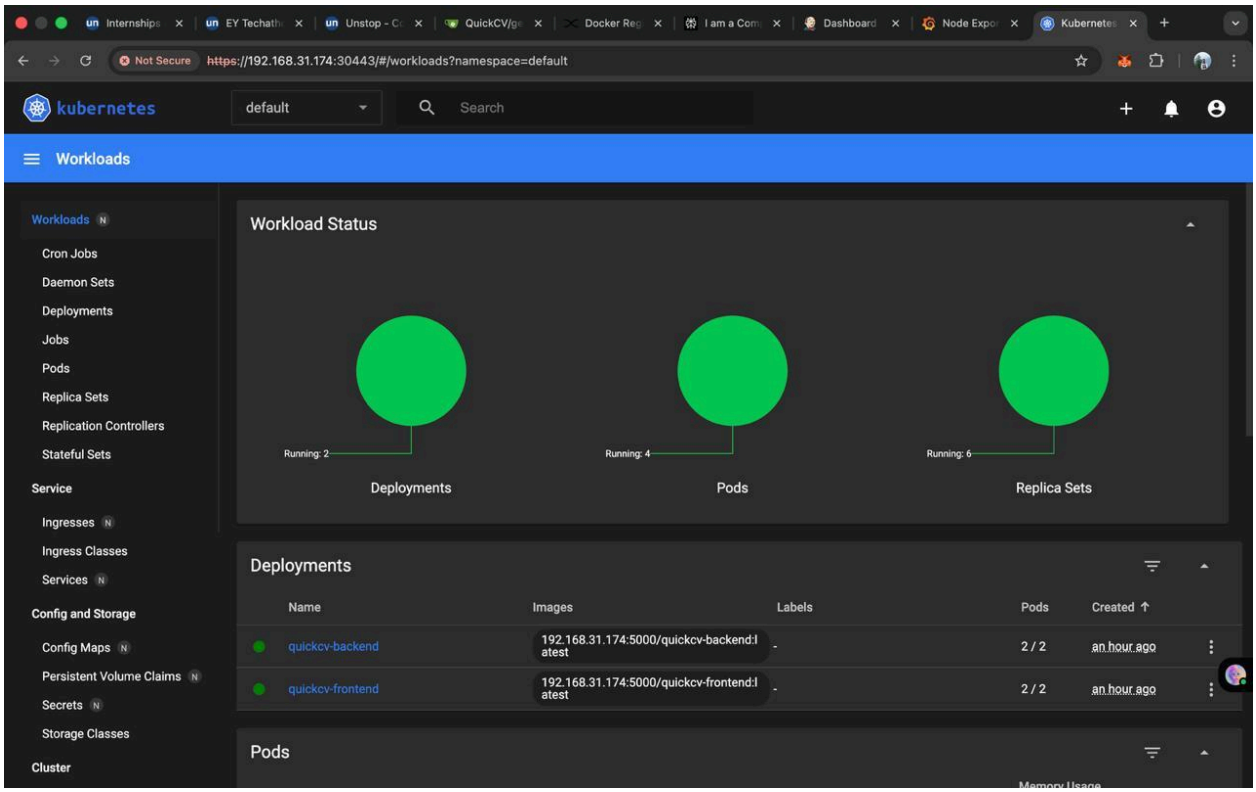


3. Task 3 – Containerization & Orchestration (Deployments + Pods + Replica Sets):






Not Secure
https://192.168.31.174:30443/#/workloads?namespace=default
kubernetes
default
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
Cluster
quickcv-frontend-79dfd9c7db-282ww
192.168.31.174:5000/quickcv-frontend:latest
app: quickcv-frontend
pod-template-hash: 79dfd9c7db
yognishi
Running
2
0.00m
7.28Mi
18 minutes ago
Replica Sets
Name
Images
Labels
Pods
Created
quickcv-backend-6566844846
192.168.31.174:5000/quickcv-backend:latest
app: quickcv-backend
pod-template-hash: 6566844846
2 / 2
18 minutes ago
quickcv-frontend-79dfd9c7db
192.168.31.174:5000/quickcv-frontend:latest
app: quickcv-frontend
pod-template-hash: 79dfd9c7db
2 / 2
18 minutes ago
quickcv-frontend-66dff89cf5
192.168.31.174:5000/quickcv-frontend:latest
app: quickcv-frontend
pod-template-hash: 66dff89cf5
0 / 0
an hour ago
quickcv-backend-79bddb44c4
192.168.31.174:5000/quickcv-backend:latest
app: quickcv-backend
pod-template-hash: 79bddb44c4
0 / 0
an hour ago
quickcv-backend-58758fbb9
192.168.31.174:5000/quickcv-backend:latest
app: quickcv-backend
pod-template-hash: 58758fbb9
0 / 0
an hour ago
quickcv-frontend-66b5fdc647
192.168.31.174:5000/quickcv-frontend:latest
app: quickcv-frontend
pod-template-hash: 66b5fdc647
0 / 0
an hour ago


Not Secure
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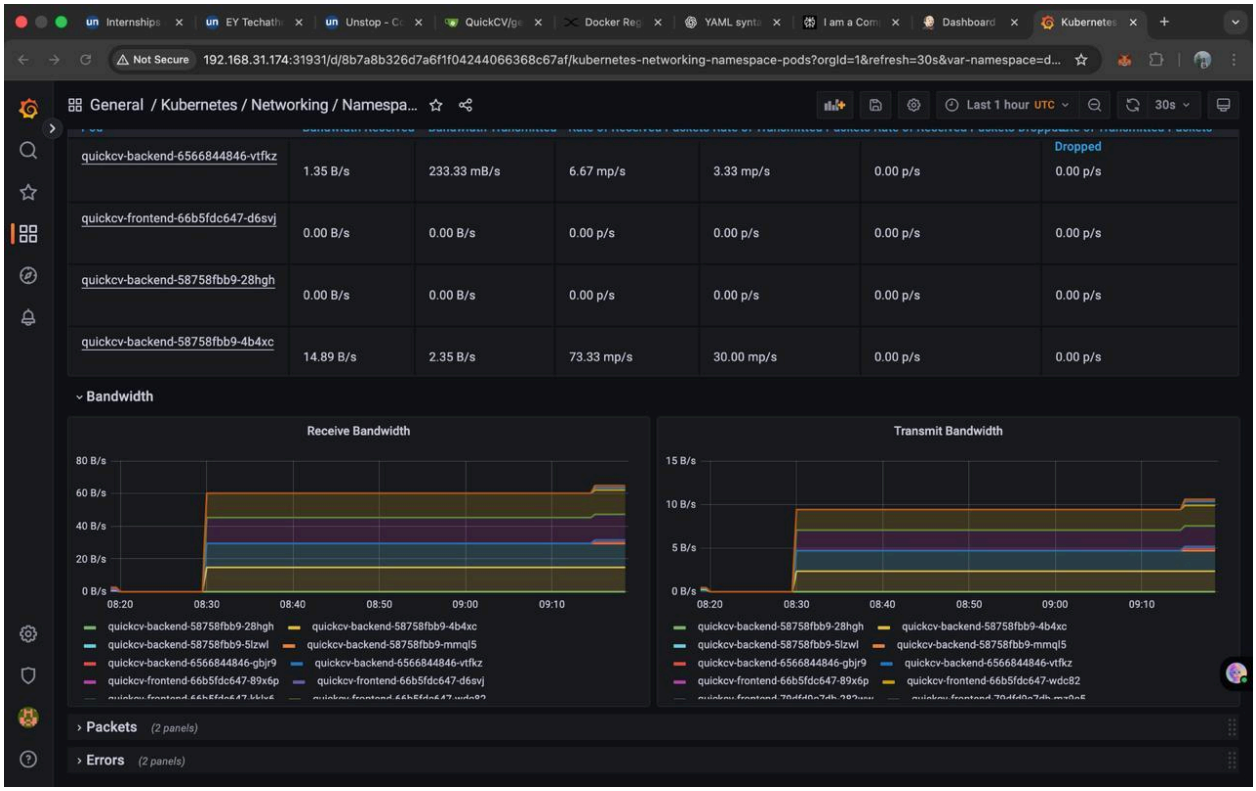
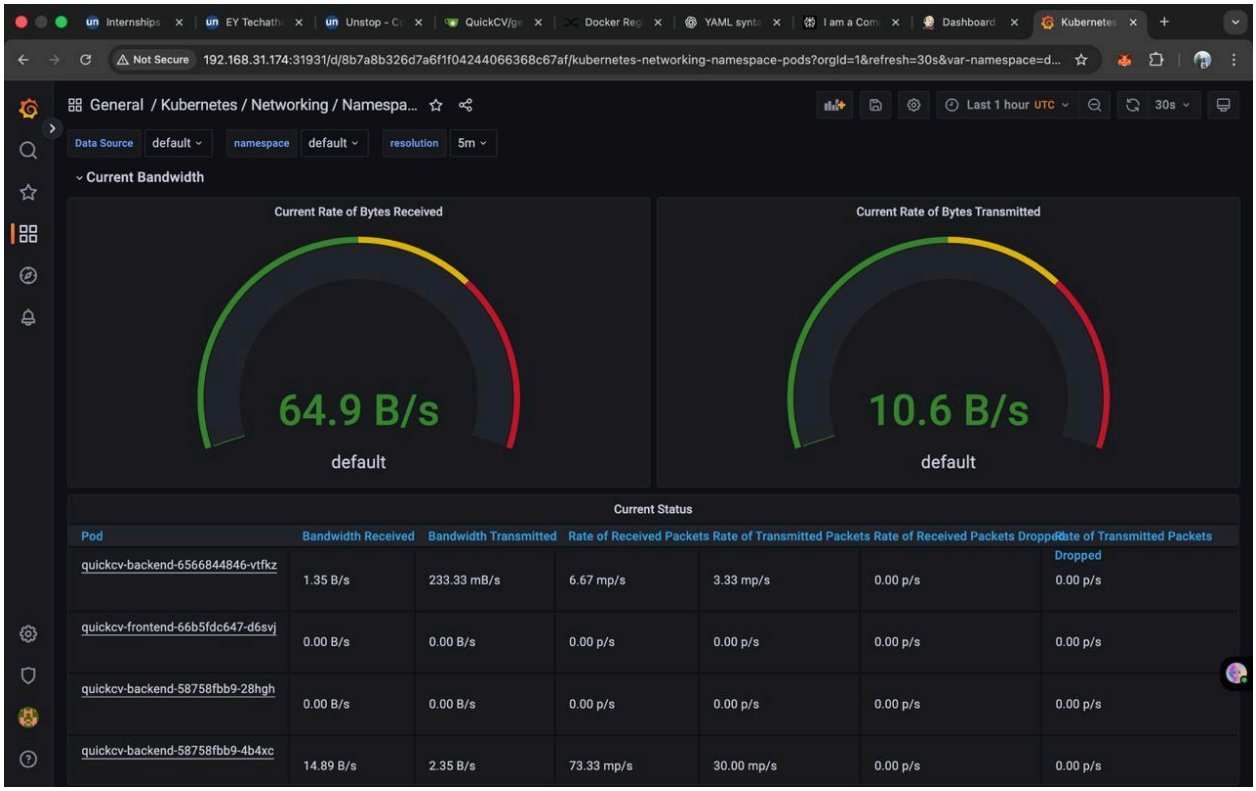
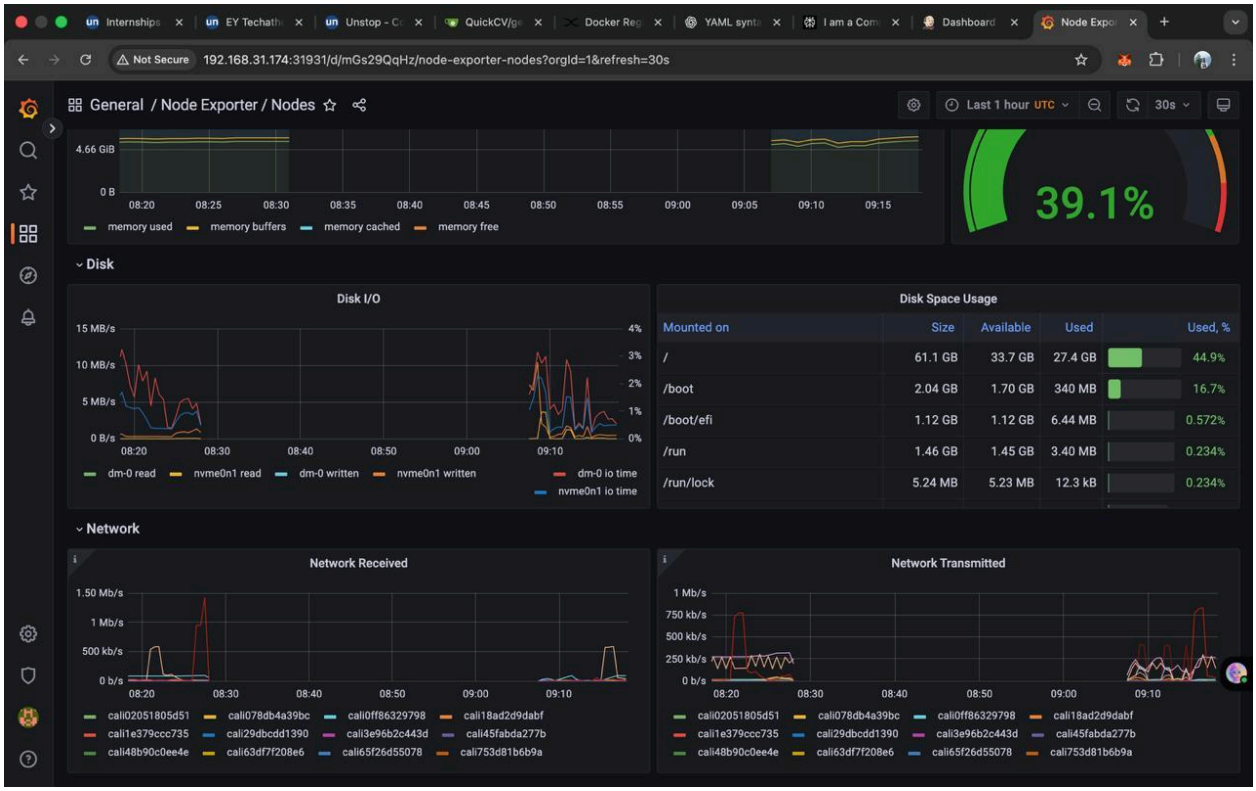
kubernetes
default
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
Cluster
Workload Status
Running: 2
Deployments
Running: 4
Pods
Running: 6
Replica Sets
Deployments
Name
Images
Labels
Pods
Created
quickcv-backend
192.168.31.174:5000/quickcv-backend:latest
-
2 / 2
an hour ago
quickcv-frontend
192.168.31.174:5000/quickcv-frontend:latest
-
2 / 2
an hour ago
Pods

4. **Task 4 – Monitoring & Logging (Prometheus + Grafana Monitoring Dashboards (network, node exporter, bandwidth graphs +)):**



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Dashboard
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General / Node Exporter / Nodes
Last 1 hour UTC
30s
4.66 GiB
0 B
08:20 08:25 08:30 08:35 08:40 08:45 08:50 08:55 09:00 09:05 09:10 09:15
memory used
memory buffers
memory cached
memory free
39.1%
Disk
Disk I/O
15 MB/s
10 MB/s
5 MB/s
0 B/s
4%
3%
2%
1%
0%
08:20 08:30 08:40 08:50 09:00 09:10
dm-0 read
nvme0n1 read
dm-0 written
nvme0n1 written
dm-0 io time
nvme0n1 io time
Disk Space Usage
Mounted on
Size
Available
Used
Used, %
/
61.1 GB
33.7 GB
27.4 GB
44.9%
/boot
2.04 GB
1.70 GB
340 MB
16.7%
/boot/efi
1.12 GB
1.12 GB
6.44 MB
0.572%
/run
1.46 GB
1.45 GB
3.40 MB
0.234%
/run/lock
5.24 MB
5.23 MB
12.3 kB
0.234%
Network
Network Received
1.50 Mb/s
1 Mb/s
500 kb/s
0 b/s
08:20 08:30 08:40 08:50 09:00 09:10
cali02051805d51
cali078db4a39bc
cali0ff86329798
cali18ad2d9dabf
cali1e379ccc735
cali29dbcdd1390
cali3e96b2c443d
cali45fabda277b
cali48b90c0ee4e
cali63df7f208e6
cali65f26d55078
cali753d81b6b9a
Network Transmitted
1 Mb/s
750 kb/s
500 kb/s
250 kb/s
0 b/s
08:20 08:30 08:40 08:50 09:00 09:10
cali02051805d51
cali078db4a39bc
cali0ff86329798
cali18ad2d9dabf
cali1e379ccc735
cali29dbcdd1390
cali3e96b2c443d
cali45fabda277b
cali48b90c0ee4e
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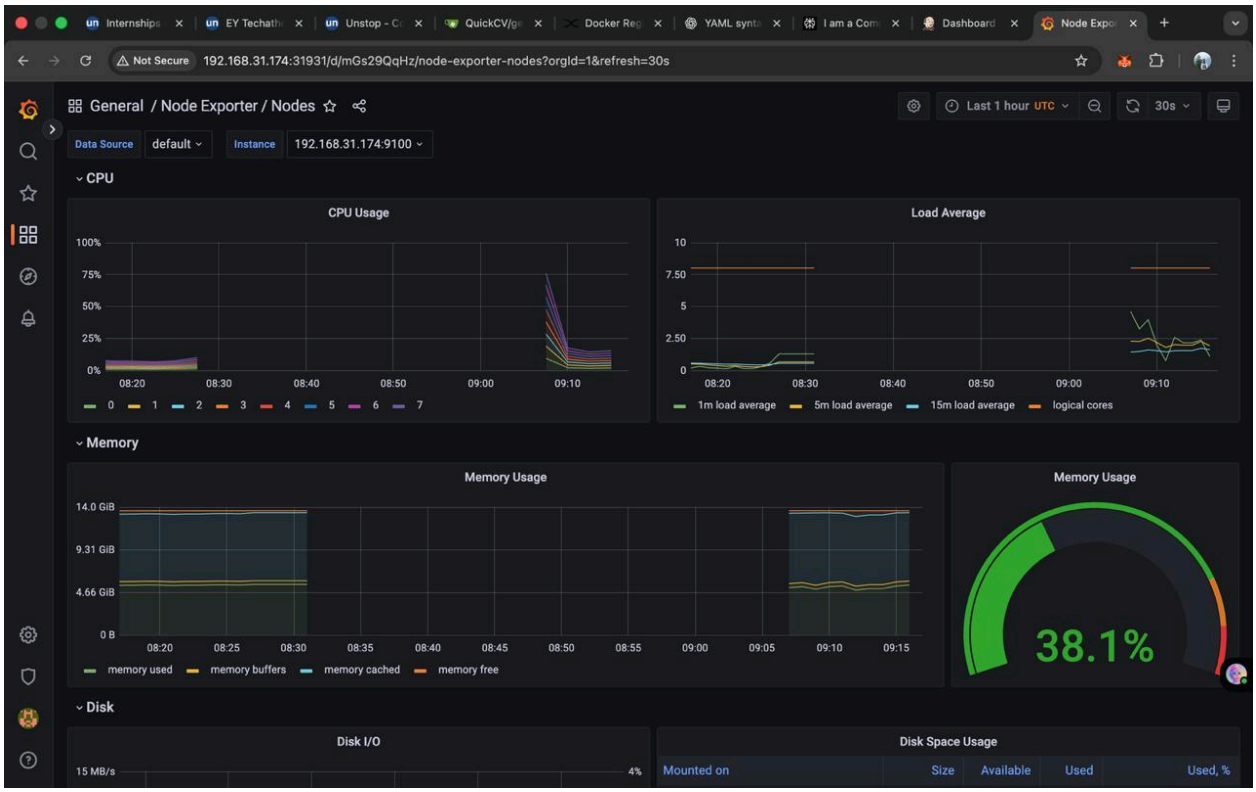
cali65f26d55078
cali753d81b6b9a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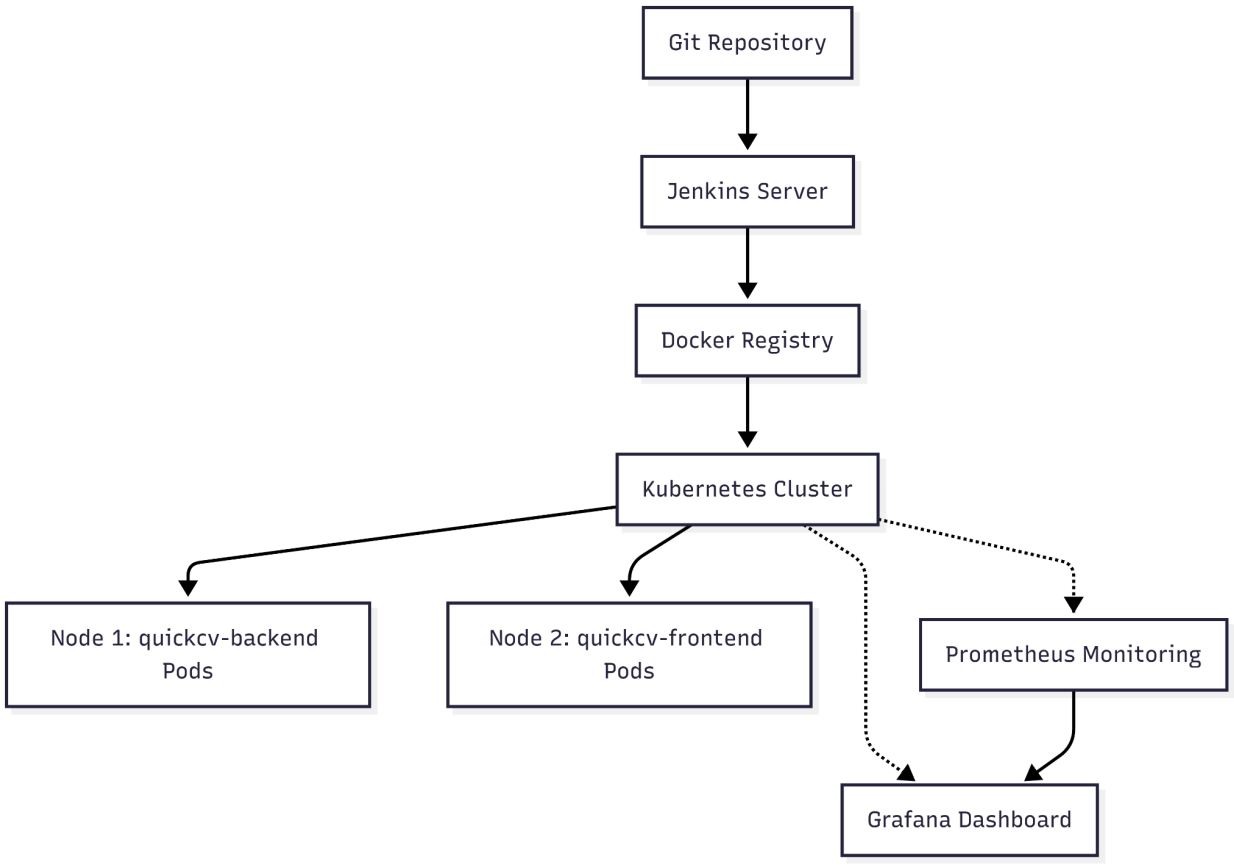
Node Expor
Not Secure
192.168.31.174:31931/d/mGs29QqHz/node-exporter-nodes?orgId=1&refresh=30s
General / Node Exporter / Nodes
Last 1 hour UTC
30s
Data Source
default
Instance
192.168.31.174:9100
CPU
CPU Usage
100%
75%
50%
25%
0%
08:20 08:30 08:40 08:50 09:00 09:10
0 1 2 3 4 5 6 7
Load Average
10
7.50
5
2.50
0
08:20 08:30 08:40 08:50 09:00 09:10
1m load average
5m load average
15m load average
logical cores
Memory
Memory Usage
14.0 GiB
9.31 GiB
4.66 GiB
0 B
08:20 08:25 08:30 08:35 08:40 08:45 08:50 08:55 09:00 09:05 09:10 09:15
memory used
memory buffers
memory cached
memory free
Memory Usage
38.1%
Disk
Disk I/O
15 MB/s
4%
Disk Space Usage
Mounted on
Size
Available
Used
Used, %

Architecture Diagram:



5. **Task 5 – Reflection & Report: Find the Report PPT As A Separate Attachment**