Monitor System Resources Using Netdata – Analyst Project

Step-by-Step Instructions

1. Create Local Project Folder

2. Run Netdata via Docker

```
docker run -d \

  --name=netdata \

  -p 19999:19999 \

  --cap-add SYS_PTRACE \

  --security-opt apparmor=unconfined \

  netdata/netdata
```

3. Access the Dashboard
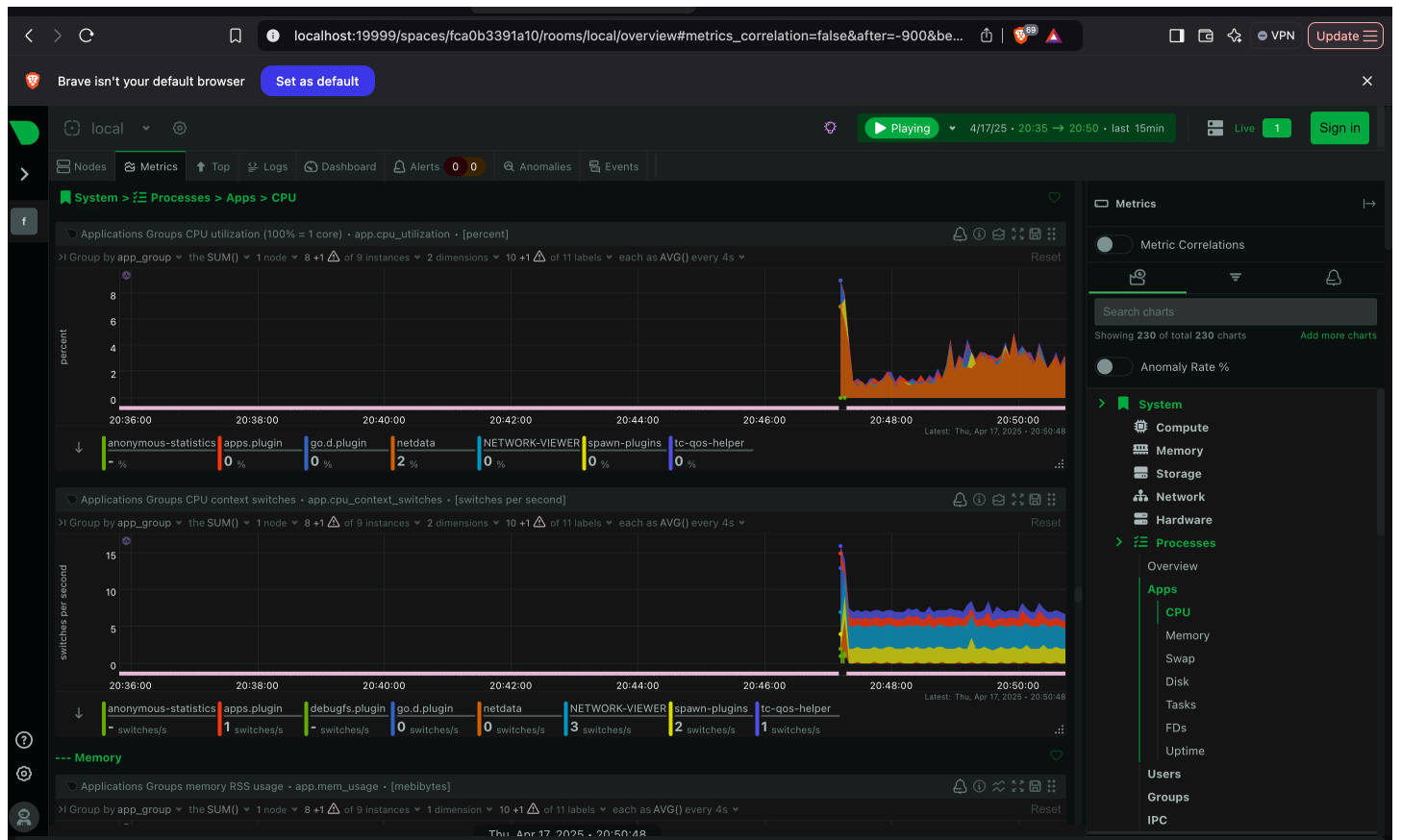
Open your browser and navigate to:

http://localhost:19999

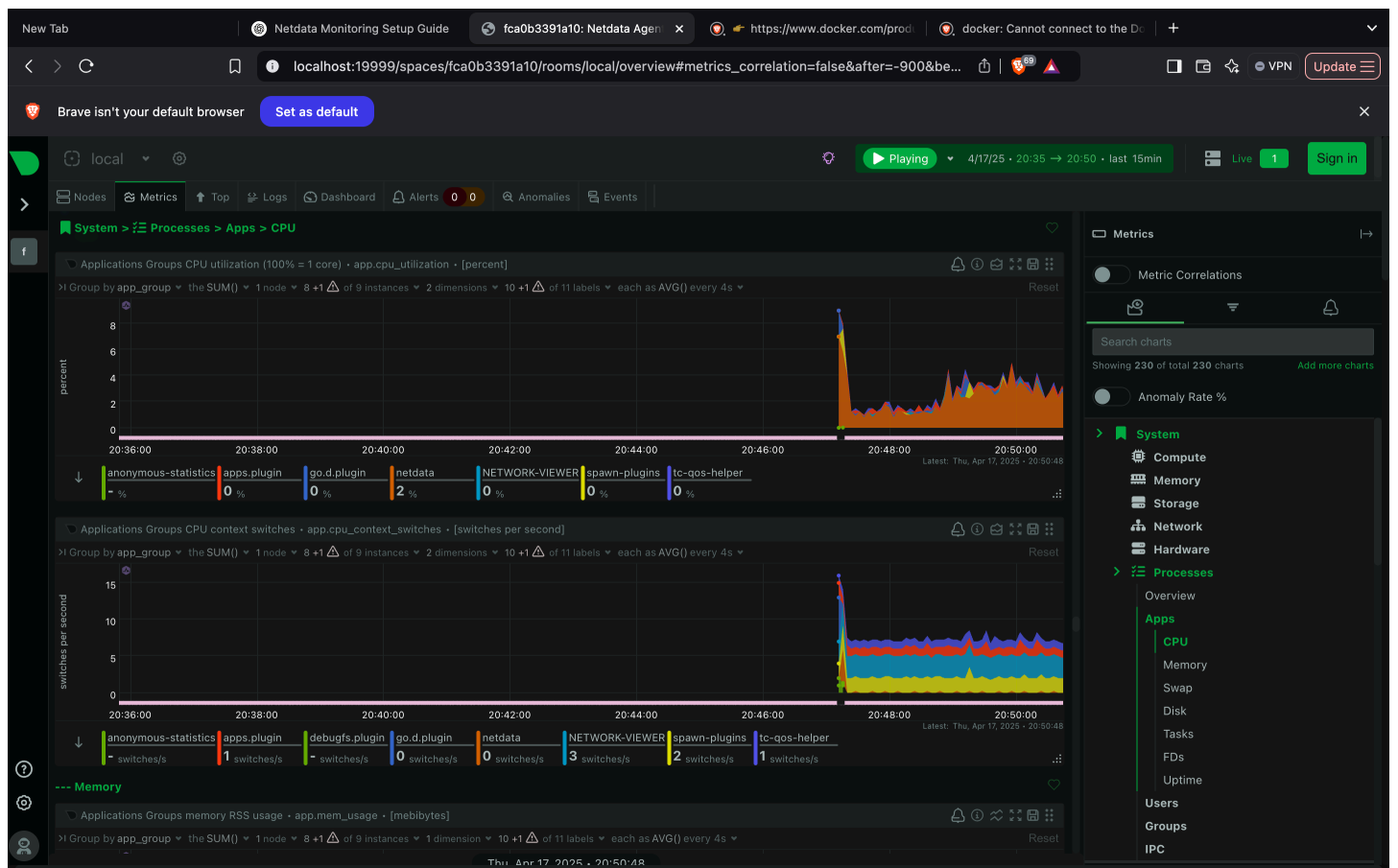You will see a dashboard with real-time system metrics.

4. Explore Metrics
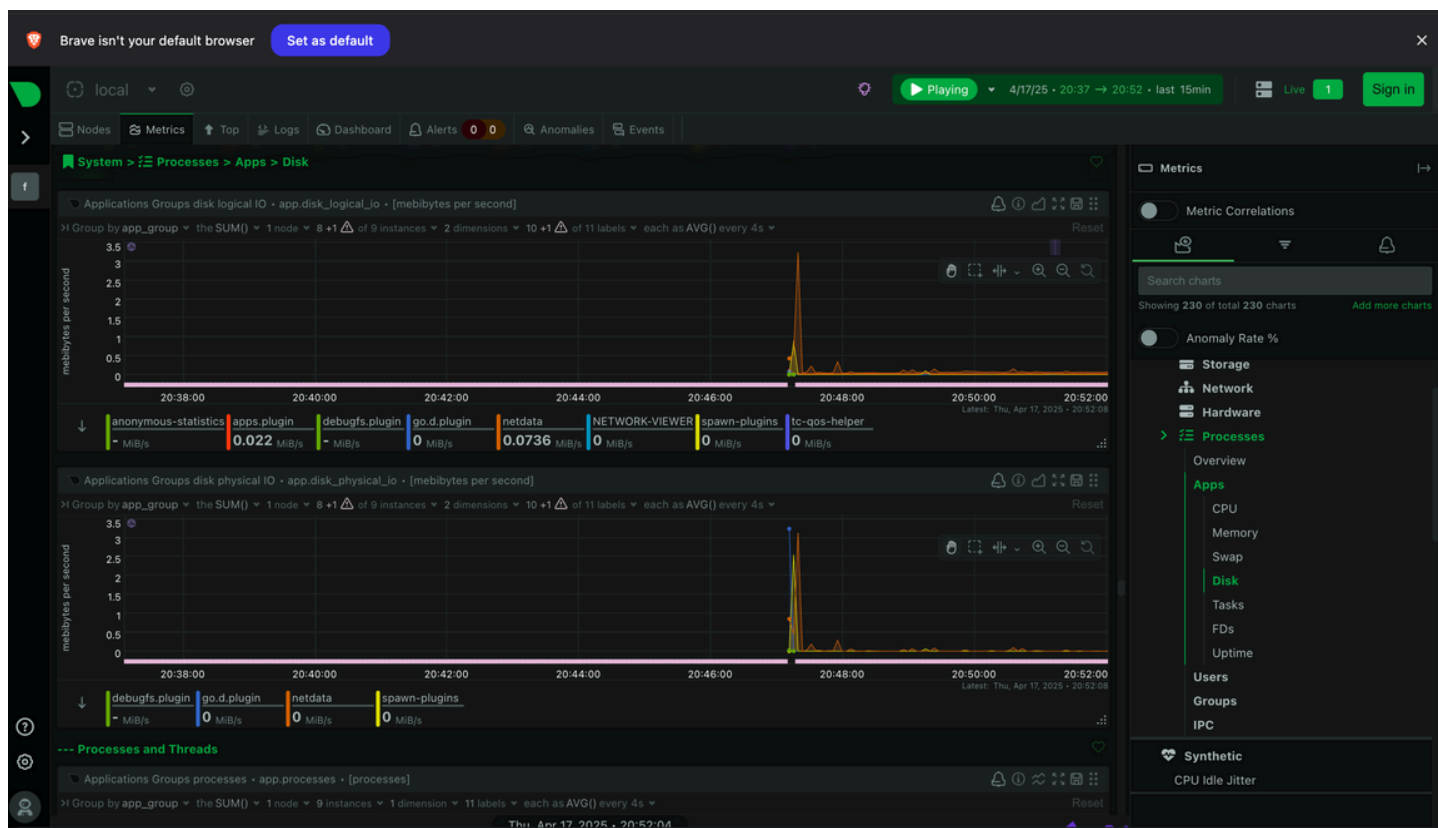
Monitor:

- CPU usage

- **Memory and RAM**

- **Disk I/O and usage**

- **Docker container metrics**
- **Alerts and performance trends**

5. Explore Logs

To view Netdata logs:

docker exec -it netdata cat /var/log/netdata/error.log

```
19999->19999/tcp    netdata
b648bfe59de4    1530d85bdba6       "/docker-entrypoint..…"   6 days ago      Up 6 days                   0.0.0.0:8080->80/tcp
                    nginx_container
macbookair@MACBOOKs-MacBook-Air netdata-monitoring % docker stop b648
b648
macbookair@MACBOOKs-MacBook-Air netdata-monitoring % docker ps
CONTAINER ID    IMAGE             COMMAND             CREATED         STATUS              PORTS
                NAMES
fca0b3391a10    netdata/netdata   "/usr/sbin/run.sh"   2 minutes ago   Up 2 minutes (healthy)   0.0.0.0:19999->19999/tcp, [::]:1999
9->19999/tcp    netdata
macbookair@MACBOOKs-MacBook-Air netdata-monitoring % /var/log/netdata

zsh: no such file or directory: /var/log/netdata
macbookair@MACBOOKs-MacBook-Air netdata-monitoring % ls
macbookair@MACBOOKs-MacBook-Air netdata-monitoring % docker exec -it netdata bash
root@fca0b3391a10:/# ls
bin  boot  dev  etc  home  lib  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@fca0b3391a10:/# cd var
root@fca0b3391a10:/var# ls
backups  cache  lib  local  lock  log  mail  opt  run  spool  tmp
root@fca0b3391a10:/var# cd lo
local/ lock/  log/
root@fca0b3391a10:/var# cd lo
local/ lock/  log/
root@fca0b3391a10:/var# cd loc
local/ lock/
root@fca0b3391a10:/var# cd local/
root@fca0b3391a10:/var/local# ls
root@fca0b3391a10:/var/local# cd ..
root@fca0b3391a10:/var# ls
backups  cache  lib  local  lock  log  mail  opt  run  spool  tmp
root@fca0b3391a10:/var# cd log/
root@fca0b3391a10:/var/log# ls
alternatives.log  apt  btmp  dpkg.log  faillog  freeipmi  ipmiconsole  lastlog  netdata  wtmp
root@fca0b3391a10:/var/log# cd netdata/
root@fca0b3391a10:/var/log/netdata# ls
access.log  aclk.log  collector.log  daemon.log  debug.log  error.log  health.log
root@fca0b3391a10:/var/log/netdata#
```

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- **README.md – Documentation**
- **.gitignore – Add *.log**

Sample .gitignore:

*.log

Sample README.md includes:

- **Objective**
- **Docker command**
- **Screenshot**
- **Logs location**
- **Project description,**

8. Create GitHub Repo

9. Push to GitHub

📈 Output / Deliverables

- **GitHub repository with:**