Explanation of the Images, Containers, docker-compose, and networks.

Images:

```
asnath@AssynathJr:~/AIOps_Labs/PrometheusSandbox$ docker ps
CONTAINER ID   IMAGE                                COMMAND                 CREATED       STATUS       PORTS                      NAMES
1499aac3d97b   prometheussandbox-app_one            "/usr/local/bin/dumb…"  3 hours ago   Up 3 hours   0.0.0.0:8000->8000/tcp     app_one
fd4b12a51e4f   wrouesnel/postgres_exporter          "/postgres_exporter"    32 hours ago  Up 4 hours   0.0.0.0:9187->9187/tcp     postgres_exporter
5a26626de5a5   prom/pushgateway                     "/bin/pushgateway"      32 hours ago  Up 4 hours   0.0.0.0:9091->9091/tcp     prometheus_push_gateway
bc5f0e36cacc   postgres:13.3                        "docker-entrypoint.s…"  32 hours ago  Up 4 hours   0.0.0.0:5432->5432/tcp     postgres
2ea597f1b8d8   prometheussandbox-prometheus         "/bin/prometheus --c…"  32 hours ago  Up 4 hours   0.0.0.0:9090->9090/tcp     prometheus
d88a5ebf7aa3   quay.io/prometheus/node-exporter     "/bin/node_exporter"    32 hours ago  Up 4 hours   0.0.0.0:9100->9100/tcp     prometheus_node_exporter
67bd1b8b8624   prometheussandbox-grafana            "/run.sh"               32 hours ago  Up 4 hours   0.0.0.0:3000->3000/tcp     grafana
a991e41da4e4   prometheussandbox-app_two            "/bin/sh -c /go/bin/…"  32 hours ago  Up 4 hours   0.0.0.0:8001->8001/tcp     app_two
asnath@AssynathJr:~/AIOps_Labs/PrometheusSandbox$
```

Figure 1: Images running on docker

Explanation: The docker contains various containers running for about 3-4 hours and each has specific ports to allow communication between the containers and the host system. Several containers are running including:
- ➔ Prometheus for monitoring.
- ➔ Grafana for visualization.
- ➔ PostgreSQL for database
- ➔ The rest are exporters and gateways.

Docker-Compose:

The docker-compose includes services for 'app one' and 'app two' applications, Prometheus for monitoring, Grafana for data visualization and PostgreSQL for database. Also, it includes exporters for collecting metrics from Node.js and PostgreSQL and push gateway for Prometheus.

Networks:

```
asnath@AssynathJr:~/AIOps_Labs/PrometheusSandbox$ docker network ls
NETWORK ID     NAME                        DRIVER    SCOPE
021baeca6cb8   app_default                 bridge    local
5e5f402a4b96   app_todo-network            bridge    local
078bbc4d1529   bridge                      bridge    local
7d7ed770a355   host                        host      local
8224172ab5b3   none                        null      local
8c9df2521eb5   prometheussandbox_default   bridge    local
```
Figure 2: Docker Network lists

Figure 3: Docker network configuration for Prometheus monitoring Setup

The above images show the lists of the Docker networks on the system. The networks include default application networks, a bridge network, a host network, and a specific network for a Prometheus sandbox environment. Figure 3, shows a JSON configuration file for a Docker network named "prometheussandbox_default". It defines various network endpoints for different services like Prometheus, Grafana, PostgreSQL, and custom applications.