

# Monitoring

## Overview

The lab uses a self-hosted monitoring stack to track CPU, GPU, memory, disk, network, and per-process resource usage across all lab servers. Metrics are visualised in Grafana, which is available at <https://grafana.lab.pyarelal.xyz>. Log in with your lab account via the **Sign in with Kanidm** button.

## What is monitored

- CPU usage (by type: user, system, iowait, etc.)
- RAM usage (used, cached, buffers)
- Network traffic (sent and received)
- Disk I/O (read and write)
- GPU utilisation, memory, temperature, and power draw (on GPU-equipped hosts)
- Top processes by CPU and memory

## Monitored hosts

| Host      | GPU monitoring |
|-----------|----------------|
| orca      | Yes (NVIDIA)   |
| kraken    | Yes (NVIDIA)   |
| leviathan | Yes (NVIDIA)   |
| starfish  | No             |
| eel       | No             |

# Using the dashboard

After logging in, open the **Infrastructure Overview** dashboard. Use the **Host** dropdown at the top to switch between servers. The time range selector in the top right controls how far back the graphs show.

The dashboard is divided into three sections:

- **System** — CPU, RAM, network, and disk panels visible for all hosts
- **GPU** — GPU panels, populated only for GPU-equipped hosts
- **Processes** — top 10 processes by CPU and memory usage

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