

# Monitoring Quick Start Guide

## 5-Minute Setup

### 1. Check Metrics Endpoint

```
# Start the app
yarn dev

# Test metrics endpoint
curl http://localhost:3000/api/metrics

# Test health endpoint
curl http://localhost:3000/api/metrics/health
```

### 2. Start Prometheus (Local)

```
cd monitoring/prometheus
docker-compose up -d

# Check Prometheus UI
open http://localhost:9090

# Verify targets are up
open http://localhost:9090/targets
```

### 3. Connect to Grafana Cloud

1. **Sign up:** <https://grafana.com/auth/sign-up>

2. **Create stack** and note credentials

3. **Add to .env:**

```
bash
GRAFANA_CLOUD_PROMETHEUS_URL=https://prometheus-xxx.grafana.net/api/prom/push
GRAFANA_CLOUD_PROMETHEUS_USER=123456
GRAFANA_CLOUD_API_KEY=your_key_here
```

4. **Restart Prometheus:**

```
bash
cd monitoring/prometheus
docker-compose restart
```

### 4. Import Dashboards

1. Go to Grafana Cloud → **Dashboards** → **Import**

2. Upload these files:

- monitoring/grafana/dashboards/application-overview.json
- monitoring/grafana/dashboards/pdf-operations.json
- monitoring/grafana/dashboards/business-metrics.json

3. Select Prometheus datasource

4. Click **Import**



## Available Dashboards

### 1. Application Overview

- Request rate and duration
- HTTP status codes
- Memory usage
- System metrics

### 2. PDF Operations

- Conversion rates by operation
- Processing duration
- Active jobs
- File sizes

### 3. Business Metrics

- Total users
- Active sessions
- Login/signup attempts
- Subscription events



## Example Queries

```
# Request rate
sum(rate(propdf_http_requests_total[5m]))

# P95 response time
histogram_quantile(0.95, sum(rate(propdf_http_request_duration_seconds_bucket[5m]))
by (le))

# Error rate
sum(rate(propdf_http_requests_total{status_code=~"5.."}[5m]))

# Conversion success rate
sum(rate(propdf_conversions_total{status="success"}[5m])) / sum(rate(prop-
df_conversions_total[5m]))

# Active users
propdf_active_sessions
```



## Common Issues

### Metrics endpoint returns 500

```
# Check if prom-client is installed
yarn list prom-client

# Reinstall if needed
yarn add prom-client
```

## Prometheus can't scrape

```
# Check if app is running
curl http://localhost:3000/api/metrics

# Check Prometheus logs
docker logs pro-pdf-prometheus
```

## No data in Grafana

```
# Verify Prometheus is receiving data
open http://localhost:9090/graph
# Run query: propdf_http_requests_total

# Check Grafana datasource
# Grafana → Configuration → Data Sources → Test
```



## Documentation

For detailed information, see:

- **Full Guide:** [MONITORING\\_GUIDE.md](#)
- **Prometheus Config:** [monitoring/prometheus/prometheus.yml](#)
- **Dashboard JSONs:** [monitoring/grafana/dashboards/](#)



## Quick Links

- **Metrics API:** <http://localhost:3000/api/metrics>
- **Health Check:** <http://localhost:3000/api/metrics/health>
- **Prometheus UI:** <http://localhost:9090>
- **Grafana Cloud:** <https://grafana.com/>

**Need help?** Check the full [MONITORING\\_GUIDE.md](#) ([..//MONITORING\\_GUIDE.md](#))