



# Monitoring Guide

Version 1.8.0

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## Document Revision History

### November 21st, 2018

- Initial release of monitoring guide.

# HTTP Endpoints

## Web Server

- GET /speedtest

## Ingest Application

- GET /ingest

## Realtime Application

- Execute the following command to test websocket connections to the Realtime application, substituting your server name for `beam.example.com`

```
curl --include \
      --no-buffer \
      -v \
      --header "Connection: Upgrade" \
      --header "Upgrade: websocket" \
      --header "Host: beam.example.com:443" \
      --header "Origin: https://beam.example.com:443" \
      --header "Sec-WebSocket-Key: SGVsbG8sIHdvcmxkIQ==" \
      --header "Sec-WebSocket-Version: 13" \
      https://beam.example.com:443/
```

## Systemd Services

### Web Server

- **Name:** nginx.service
- **Information Shell Command:** `sudo systemctl show nginx`
- **Restart Command:** `sudo systemctl restart nginx`

### Ingest and Realtime Applications

- **Name:** pm2-beam.service
- **Information Shell Command:** `sudo systemctl show pm2-beam`
- **Restart Command:** `sudo systemctl restart pm2-beam`

### Database

- **Name:** riak-custom.service
- **Information Shell Command:** `sudo systemctl show riak-custom`
- **Restart Command:** `sudo systemctl restart riak-custom`

# Usage Metrics

## CPU

- **Command:** `top`
  - Load average should be less than 1.5

## Memory

- **Command:** `free | grep Mem | awk '{print $4/$2 * 100.0}'`
  - Should be greater than 10%

## Filesystem

- **Command:** `df | grep /$`
  - Use % should be less than 90%
- **Command:** `df | grep /mnt/riak$`
  - Use % should be less than 70%

# Logs

## Web Server

- **Location:** `/var/log/nginx/*`

## Ingest Application

- **Location:** `/beam/.pm2/logs/Ingest*`

## Realtime Application

- **Location:** `/beam/.pm2/logs/Realtime*`

## Database

- **Location:** `/var/log/riak/*`

## System

- **Location:** `/var/log/syslog`