→ Focus on observability
   ↳ Monitoring - stats
   ↳ Logging - explanation
   ↳ Cloud trace - track time

Cloud Monitoring

- Collecting Metrics
  ↳ Shown on Dashboard

- allerting on Metrics

- Predefined + Custom Metrics

- Monitoring agent can collect
  even more data

- Dashboards are customizable

- uptime check (heartbeat)

Metrics explorer

- can explore service
    Metrics over time

- Found under Logging

installing cloud monitoring agent
   - Follow instructions on
    google website the class
    is outdated

Cloud Logging

- Data Retention
    * Required Bucket → 400 days
    * Default → 30 days
    * custom → max 10 years
     ↳ 30 days + costs money
- Log explorer
    ↳ Search through google Logs

- Log Router
    ↳ Routs Logs or Sinks
- Log analytics
    ↳ SQL Log filters

Cloud Trace

- performances of Services
    ↳ latency statistics

- Identify bottlenecks

Four Golden Signals

1. Latency

2. traffic

3. errors

4. Saturation - capacity