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Software Architecture

Assignment 4

Deploying and Monitoring PieMatrix as Microservices

**Introduction:**

This document introduces a strategy for deploying and monitoring a microservices architecture previously converted from a monolithic architecture: PieMatrix [1].

**Path to deployment:**

Employee Frederick finds a bug/issue worthy of revision. Frederick fixes the problem and the revision gets queued up in a QA (Quality Assurance) inbox. QA “black box” tests the revision and, if acceptable: deployment.

**Monitoring:**

Monitoring: Server integrity/overall health, incoming and outgoing requests, maximum capacity for requests in current state, cost/risk analysis, scalability.

**Short term:**

Server integrity/overall health, incoming and outgoing requests, maximum capacity for requests in current state.

**Long term:**

Cost/risk analysis, scalability issues.

**Errors/Warnings:**

Only senior-level architects cleared to make the decision on a persistent bug/problem will either clear a warning/error as erroneous or will declare it necessary to fix the error/warning. In general, bugs and warnings are not tolerated.

**Third-party libraries:**

When upgrading versions of third party libraries or otherwise swapping a used third party library out for something else, a local copy of the library shall be stored

**Security:**

**Conclusion:**

**References:**

1. https://www.piematrix.com/