I want a high-level design of a monitoring system that proactively monitors a data and network authentication platform with multiple distributed systems.

The monitoring system:

1. Shall be operational and available 24/7.

2. Shall monitor services hosted both on-premises(virtual or otherwise) and in hybrid clouds.

3. Shall collect metrics and logs for Operating System and services/applications.

4. Shall protect personal data that flows through the system.

5. Shall handle Unix based tech stack running applications and infrastructure built with Ruby and Java based applications.

6. Shall be scalable.

7. Should be cost effective.

8. Should self-diagnose and ensure operational support team are aware any issues.