

Rationale_Server_Technologies_Used

The following include rationales for the technologies used for the server development for Payday's client server architecture.

Amazon EC2 Cloud – Virtual Host

- Amazon EC2 Cloud is a virtual cloud host designed to provide computing power based on demand. The rationale for using Amazon EC2 Cloud as a virtual host for Payday is that there is familiarity with the technology by our developers, it has an easy to use console, it is highly secure, the support and community is unparalleled in the industry, there is a highly active community, and it is free for one year with new accounts.

Ubuntu Server 12.04 LTS Linux – Operating System

- Ubuntu Server 12.04 LTS is a Linux distribution for a server environment. The rationale for using Ubuntu Server is that it is highly portable supports UNIX commands, there is familiarity with the technology by our developers, it is easy to set up, the documentation is unparalleled in the industry, there is a highly active community, and it is free.

Apache HTTP Web Server – HTTP File Server

- Apache HTTP Web Server is a file server designed to serve files from a directory tree structure. The rationale to use Apache HTTP File Server is that it works well out of the box with Ubuntu Server, it has a simple set up, there is familiarity with the technology by our developers, it is a mature technology, and it is free.

MySQL – Database

- MySQL is an open source relational database that is supported by Oracle. The rationale to use MySQL for Payday is that is a relational database, which handles account transactions well which is a requirement for Payday. Also it supports SQL commands, there is a familiarity with the technology by our developers, it is open source, it supported by Oracle, the documentation is unparalleled in the industry, there is a highly active community, it is simple to set up and works well out of the box with Apache HTTP Web Server, the technology is highly mature, and it is free.

Gradle – Build Automation

- Gradle is a build automation tool for testing, packaging, and publishing Java and JVM for the web. The rationale for using Gradle for Payday is that it is supported by Spring.io, it is simple to use for publishing Java for the web, it is an industry standard for java testing automation, it has a simple set up, it is open source, the documentation is unparalleled in the space, and it is free.

Spring.io – Backend Logic

- Spring.io is an enterprise level java MVC web framework. The rationale for using Spring.io for Payday is that it is a modern Java MVC framework, it has the best and easiest to follow documentation out of all the enterprise level Java frameworks, it has great support, simple set up, and a highly active community. Spring.io is also open source and completely free to use.