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| 3rd Party - Card Payments System   * Provide mocked responses of their system via requesting certain names and addresses for positive and negative responses. * The system has an information endpoint which can be contacted for availability * It is unknown if there are further test environments available or what the ultimate capacity is for this system. * As a 3rd party system, comprehensive online documentation regarding each API operation and authentication instructions. | Internal – Credit Search System   * Recently re-architected as a microservice architecture, leading to significant capacity increases. * Able to deploy on demand in an automated fashion to multiple environments. * A mock service for each micro service was created as part of the new architecture. * Extensive API documentation using Swagger is available to all teams at the organisation. |
| Internal – Money Laundering System   * The system is a tightly coupled, very dense, legacy system with limited automated testing. * The system has extensive logging of audit records * There are only two environments for this system, a test environment and production, neither of which are the same. * A few experienced developers hold most of the knowledge for this system. | **IDResolver – CentOS for Web and Database Layers**   * CentOS uses yum as a package manager, therefore dependencies can be limited. * CentOS has the standard logging tooling of Linux, including syslog and with Apache installed also access logs. * As CentOS is built upon the Linux Kernel, it has wide configuration options. * Although CentOS is used widely, it does not have the support, security focus and updates of RedHat enterprise. |
| IDResolver – Perl for Batch Processing   * The batch processing in Perl is not thread safe, so is only run on one webserver, leaving no redundancy. * The batch processing system writes log messages to the audit database and sends emails for successfully completed jobs. * Jobs are scheduled on a time-based basis, therefore can be separated to assist * There are only two Perl Developers remaining and they are transitioning to php, as there is only one system in Perl. | **IDResolver – Load Balancing**   * The Load Balancer for test environment and production are held on separate instances, production needs high level of access. * As the load balancing is a third-party product, it has in built monitoring and alerting, plus an API for configuring alerts in other tools. * There is a web interface for observing and changing IP rules and pool configuration that is accessible to development teams for the test environments. * Even though it is a third party, online documentation is limited, as the company wishes to train onsite. |