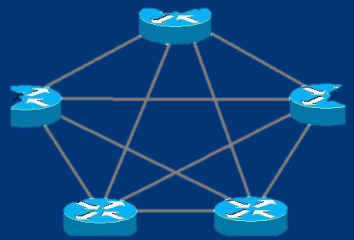
Network Routing and Virtualization

Recent upgrades to our network virtualization environment exposed unforeseen issues with existing routing configurations, preventing proper failover of the Data Center 4 Edge Services Gateways (ESG's). In order to correct the problem and insure the redundancy is fully functional, Layer 3 will be working with the NIC team to reconfigure the routing in an "after hours" maintenance window Friday, December 15th.

Lance Melancon will be available to assist and test along with other members of the NIC team. We are also communicating with all applicable users for an awareness of the potential connectivity loss during this time. While we don't expect any extended downtime, we want to be prepared to respond to any application or service failures.

Once the new configurations are implemented and tested, the systems will be allowed to run until a predetermined date before continuing with the remaining virtualization upgrade. Once the changes prove to be successful and stable, the next steps will be to upgrade the ESG's to the newest version of code. At that point, the upgrades to the network virtualization layer will be complete.

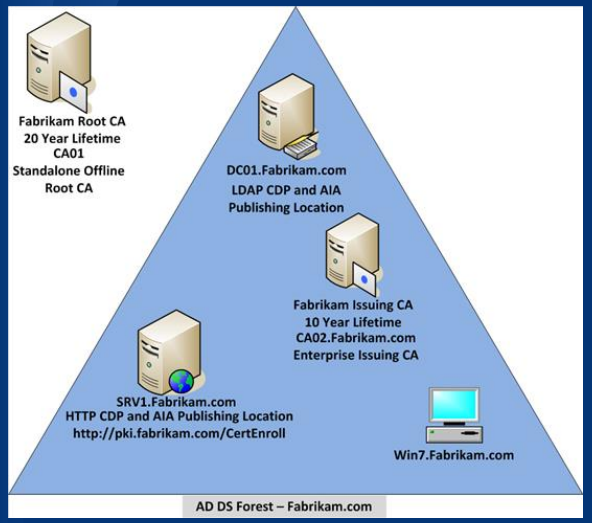


Network Management Operations

Posted by: Lance Melancon, Network Specialist

December 15, 2017

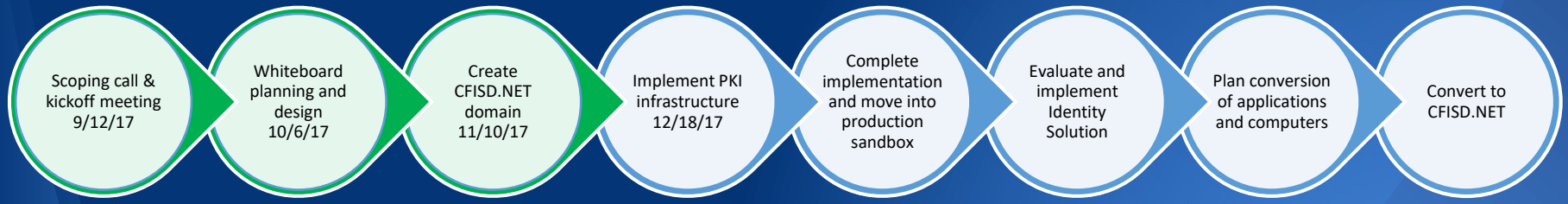
CFISD.NET and PKI



Josh Zhang continues to work on the new CFISD.NET domain. One of the pillars of security in the new domain will be a two tier PKI (Public Key Infrastructure). Security certificates allow for computers to send encrypted communication between each other such as with the CFISD_CP wireless to authenticate district devices to the wireless access points.

CFISD.NET will issue computer level certificates to all devices on the domain, this will prevent intruders from intercepting communications between computers and servers and allow for more types of services to be implemented in the district.

Ricky Flowers (Microsoft engineer) will be onsite Monday, December 18th to assist Josh with the PKI configuration.



Network Management Operations
Posted by: Josh Zhang, Network Specialist

December 15, 2017

VPLEX Tuning

Mike Diaz worked with **Kai Yee** (EMC Datacenter Engineer) to collect information on our VPLEX virtual array so that EMC can better understand our issues with database latency.

Kai is reviewing our VPLEX and virtual infrastructure configurations to troubleshoot latency for large SQL database re-indexing.

After his review, Kai plans to come onsite with EMC local support to resolve and/or provide strategies to resolve the issue.

Network Management Operations
Posted by: Mike Diaz, Network Specialist

December 15, 2017

Isilon Storage

Ken Gibson replaced a hard drive on Node 6 of the production Isilon storage at Data Center 4.

Our storage is monitored through EMC's Secure Remote Services (ESRS). Similar to "phone home", the Isilon notifies EMC when there is disk failure; whereby, EMC automatically sends out a replacement.

A single drive failure is never a concern because of the way the Isilon is structured with its raid striping.