20160919 Meeting Minutes

Monday, September 19, 2016   7:59 PM

Action Items
- Joel/Oscar: Determine whether or not to install Brocade switches in the current environment or wait until structured cable plan completed.
- Ken: Fortinet - Fix for asymmetric routing or do we hard pin the traffic
  - Joel/Fortinet/Ken (Ira)
    - *IF NOT hard pinned, need to inform NSX implementation engineer immediately so we can adjust the design.
- Andrew/BJ/Layer 3: VPN tunnel back from both data centers (Clay to help coordinate from Presidio side)
- Clay: Have Al reach out to Oscar on IP, Proxy, and DNS information today, 20 Sep.
- Oscar/Greg: Look at maintenance windows for joining the two fabrics together
- Ken: Setup meeting within next two weeks Oscar, Greg, Andrew, Paul, Joel, Lance, Mike, Anthony, Ira joining the fabrics together
- Al:
  - review test scenarios for back-up and recovery testing
  - vm "blown away" restore scenario completed
  - 2 VMs on the AMP to support DPA
- Paul: vCenter licensing confirmation audit
- Clay: Have BJ reach back out to Ken regarding Spyglass install
  - Originally the design was the pin it to one side
  - Most of the routing changes would happen in the data center fabric. EMCP to spring traffic across all of the edge gateways. North bound of the datacenter to steer traffic

Decision Points
- M&S/Fortinet and asymmetric routing?
  - Currently Layer 3 plan is to hard pin the traffic to one side or the other for egress and ingress path
  - Fortinet asymmetric routing?
  - vCloudAir - VPN tunneling for Phase 1 for the Management Cluster
    - Direct connect for Phase 2 filing a 470 for e-rate would be higher availability, bandwidth, and able to put more bring it on as soon as March 2017.

Notes
- Clay Knight, David Steinke remote
- Row C-
  - Before start Row C need to create a structured cabling scheme prior to completion. (Oscar) Gathering information at this time to figure out how many ports you may need. Need to discuss the fiber, talked of copper last week.
- BGP peering
  - (Joel) To build out for the stretch addressing space will require dynamic routing advertisement. Currently static. In order to do this (NSX requirement) BGP peering must be complete.
    - Stewart is scheduled to meet at CyFair after the wireless meeting tomorrow morning. The stretch management up and running.
    - Everything plumbed behind the data center firewall. Peering is not allowing access past the firewall. Unable to deploy vCenter, OneView, and anything else on the network.
    - East/West is working correctly, but North South connection is an issue through the firewalls at the data center.
    - Joel did mention static routes with Stewart as a temp solution, but would like to move towards the final solution of dynamic routing. Asymetric routing.
    - Firewalls are what keeps Frankie up at night. (M&S/Fortinet) Policies as a security measure are extremely important and keeping students safe.
- vCloudAir -
  - Option 1: VPN-tunnel - then file e-rate with direct connect with AT&T
  - Option 2: AT&T MPLS
  - Option 3: Cyrus One - Megaport or learn connection for a direct connect service from the digital real-estate in Dallas
    - Not done one, but are interested in doing it
    - Would like to make CFISD the first direct connect in the Houston market
  - If we lost one data center then the witness provides automation if one data center goes down.
  - VPN from both locations back to location. Dedicated connection with high availability.
  - The Witness lives in vCloudAir. "veto" vote for data centers.
- IP, Proxy, and DNS information for Avamar
- Board power point slide updated
- High level functional milestones
  - Including vmWare that will allow the users to vmWare. Before P2V targeted timeline to have up and running (business management in place prior to P2V) Demonstrate to the financial team on how to insert this.
  - *Business management piece in before going P2V
- Timeline for merging the two fabrics together and clean up the routing from the Fortigates - Priority - dependency on Joel to migrate configurations over and prep switches
- VM "blown away" and restore. (Al)
- Documentation of steps restoring a vm? - should be included in Al's documentation. Should be included in his test scenarios.
- Replication and snapshot policies in place prior to moving any production data to new storage. Procedures are in place for data migration.
  - Carlos - EMC will be there to help with strategy for data migration, when CFISD is ready.
- ViPR does not want to schedule until data collection complete. Harsh will only need to review the data. Mike Diaz is point on ViPR.
- vCenter to begin following BGP peering. Hopefully 21 Sep.
- Cluster would be a stand-alone from everything else
  - Failover would be the same if under one vCenter versus two vCenters.
- Lance and Mike are good for the Virtual Connect and OneView deployment next week on 27-28 Sep.