South Plainfield Project

Setup of 4 VNX2 arrays for Customer Test Environment

Setup of arrays that arrived out of state

Design of rack and row layout

Physical rack and stack and cabling

Design of Infrastructure cabinet cabling and ip scheme

Mentoring of jr. members for implementation

Back end reconfigurations andd front end reconfigurations

Sent: Friday, February 24, 2017 2:54 PM
To: Tran, Ngoc
Subject: Congratulations, you've received an Excellence@Dell Award!

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For more information about Excellence@Dell, click here.

Sent: Tuesday, February 7, 2017 7:25 AM

Subject: RE: South PlainField - hand off

Good work Kim, Bryan and Ed.

From: Tran, Ngoc

Subject: RE: South PlainField - hand off

Chris,

Here's an update on the progress:

The arrays and hosts have been racked/stacked.
Cabling and switch ports, network/connectivity ran and configured.
Arrays and hosts have been powered on and configured with requested (or latest stable available) os/image
Connectivity/access as applicable validated (bmc/solmux[terminal-console]/ssh, etc...)
Attached is the cable matrix / ip information

Environment is ready for hand off/returned.

Please reach out to Joey ████████ for further issues.

I would like to take a moment to **THANK EVERYONE** involved. Meeting the delivery timeline would not have been possible without your efforts. A very special **THANK YOU** goes out to **DAN** ████████ for on the spot assistance with hiccups and roadblocks that were encountered throughout the progress at multiple levels of the effort.

Kim Tran
Lab Systems Engineer
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████████████████

Sent: Thursday, February 02, 2017 10:06 AM
████████████████████████████████
Subject: Re: South PlainField Syncup Part Deux Update 1.31.17

Hi Guys-

I'm looking over the cable matrix and IP plan, currently the Lenovo boxes are IPd as such:

nc8020090	MJ00P726	**10.228.20.90**
nc8020091	MJ00P72A	**10.228.20.91**
nc8020092	MJ00P729	**10.228.20.92**
nc8020093	MJ00P723	**10.228.20.93**
nc8020094	MJ00P725	**10.228.20.94**
nc8020095	MJ00V2VA	**10.228.20.95**

Can this be modified as follows:

```
MJ00V2VA    10.228.20.90
MJ00P72A    10.228.20.91
MJ00P729    10.228.20.92
MJ00P725    10.228.20.93
MJ00P726    10.228.20.94
MJ00P723    10.228.20.95
```

It's somewhat important that these remain in the same order that they were in before they left, meaning …2VA is the 1st one of the group as it is the master for the rest of them.

Thanks!

Chris

████████████████████████

Date: Tuesday, January 31, 2017 at 3:42 PM

████████████████████████ "Tran, Ngoc" <Ngoc.Tran@emc.com>, ████████████████████████

██

████████████████████ >

Subject: RE: South PlainField Syncup Part Deux Update 1.31.17

Chris,

Work is proceeding to plan ! The team is making excellent progress on all fronts. See action update below.

Actions:

*** The following actions were taken in support of the next steps in this effort. Please provide any updates by replying to all on this email thread.

#	Action	Owner	Opened	Forecast	Actual	Status/Comment
1	Provide additional server requirements for review	█████████	1.26.17	1.31.17	1.30.17	
2	Scrap old Servers (Dells)		1.26.17	1.31.17	1.31.17	
3	Set up SharePoint site for project		1.26.17	1.26.17	1.26.17	
4	Develop Rack Layout for (4) Jetfires /(2) BC's. Utilizing existing space on Row 12	Kim Tran	1.26.17	1.27.16	1.27.17	
5	Reinstall all Array hardware in new locations	Kim Tran / ████	1.26.17	1.30.17	1.30.17	
6	Develop new IP scheme for new hardware South Plainfield hardware	█████████	1.30.17	1.31.17	1.31.17	
7	IP Plan for all of existing South Plainfield hardware in Durham					TBD
8	Relocate (6) Lenovo servers & 2 supermicro to 12AE server rack		1.26.17	1.27.16	1.30.17	
9	Develop Cable Matrix for Arrays and Hosts additions	Kim Tran	1.26.17	1.30.17	1.31.17	
10	Run all cables for new hardware additions (array/hosts)	Kim Tran / ████	1.26.17	2.2.17		
11	Array configurations and setup	Kim Tran / ██	1.26.17	2.7.17		
12	Host configurations	████	1.26.17	2.3.17		

[SharePoint Site] ⬚ ------ CTRL Right click

████████████████

Sent: Thursday, January 26, 2017 2:50 PM
To: ███████ Tran, Ngoc; S████████████
████████████████████
Subject: South PlainField Syncup Part Deux 1.26.17

All,

Many thanks for your time to review & plan the re-installation of the recently relocated hardware from South Plainfield to Durham Lab 1.

Please see below for a summary of our meeting , actions planned and key data points and timeline. Also note I have created a SharePoint site(ref. below) to house all associated project data (Rack layout, Hosts data, IPS, cable matrix).

Summary

Meeting to discuss and plan the reinstallation of 4 racks of hardware from South Plainfield to Durham. Team reviewed hardware listing and setup requirements, IP changes and expectations for availability in Durham. Team agreed that all older servers (Dell 1950s and SuperMicro) can be removed form service and Chris will provide a data on additional server needs.

Timeline

Target Date to complete all work has been reset to **2.7.16**.

Key Project Notes

- Project team defined and team kickoff held. Team and responsibilities:

- <mark>Kim Tran – Overall Prime (Planning and Arrays)</mark>

- ▮▮▮▮▮ – Array Installation and Setup

- ▮▮▮▮▮ Lenovo Server Setup

- ▮▮▮▮rchi – Networking Prime

    **** Please note that all ESM tickets to transfer and install hardware for this effort has been closed. The project lead will open a Generic project RITM and the team will open tasks as required to execute the re-installation and configuration.

- **Chris** ▮▮▮▮▮ Single Point of Contact for all requirements gathering and liaison into Engineering team

- **Hardware shipment** – All hardware arrived in Durham on 1.23.17 and has been located in Row 12 column 2 Lab 1.

- Hardware listed on the attached excel. Includes: 4-Jetfires, 2- beachcombers and 5 – Lenovo's. All array hardware will be relocated to available space within the existing racks in row 12 (plan TBD) and all hosts will be placed in the infrastructure rack located at 12AE.

- **IP Addressing** – All new installations will be assigned IP addressing using the new Durham IP Scheme (i.e. 10.228.xx.xx) All non-Firewall

- Additional Work will be required to transition the remainder of the environment to the new IP Scheme (Phase 2) The primary short term goal is to get the new hardware operational on new IP's.

- **Virtual Resource Requirements** – N/A at this time

- **Fibre Requirements -** N/A at this time

- **No plans for future growth**

    Hardware Setup

- **Lenovo's** – (5) Lenovo's require only ISCSI connectivity and no OS change. Only need to connect and change IP address and hostname if required.

- **Array Setup** - 4 Jetfires (NAS) require two 1 interface per DM and ISCSI interfaces; Load latest image available

- **BC's** – Setup BC (each BC has one associated DAE). Requires 1 interface per SP (ISCSI); Load latest image available

- **Infrastructure** – Existing hardware has room to accommodate the new

- **2248** – Repurpose to Network team

-

    Actions:
    *** The following actions were taken in support of the next steps in this effort. Please provide any updates by replying to all on this email thread.

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1	Provide additional server requirements for review	██████	1.26.17	1.31.17		
2	Scrap old Servers (Dell & SuperMicro)	██████	1.26.17	1.31.17		
3	Set up SharePoint site for project	██████	1.26.17	1.26.17	1.26.17	
4	Develop Rack Layout for (4) Jetfires /(2) BC's. Utilizing existing space on Row 12	Kim Tran	1.26.17	1.27.16		
5	Reinstall all Array hardware in new locations	Kim Tram / ██	1.26.17	1.30.17		
6	Develop new IP scheme for new hardware South Plainfield hardware	██████				TBD
7	IP Plan for all of existing South Plainfield hardware in Durham	██████				TBD

8	Relocate (5) Lenovo servers to 12AE server rack	▮	1.26.17	1.27.16
9	Develop Cable Matrix for Arrays and Hosts additions	Kim Tran	1.26.17	1.30.17
10	Run all cables for new hardware additions (array/hosts)	Kim Tran / ▮	1.26.17	2.2.17
11	Array configurations and setup	Kim Tran / ▮	1.26.17	2.7.17
12	Host configurations	▮	1.26.17	2.3.17

[SharePoint Site](#) ▯ ------ CTRL Right click

<< File: SouthPlainfieldHW_List.xls >>
Cheers,
Joey

Kim Tran
Lab Systems Engineer
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Dell EMC | IEO Cloud Operations
office: +1 919 767-0885
ngoc.tran@dell.com

From: ▮
Sent: Saturday, January 28, 2017 10:49 AM
To: Tran, Ngoc; ▮
▮

Subject: RE: south plainfield - arrays

Tran,
Good work. I will take care of the empty racks and server Scrap. Overall goal is as agreed. Thanks all!!!

Please note handover date to customer. If we could better that by a couple days it would be great ☺

#	Action	Owner	Opened	Forecast	Actual	Status/Comment
1	Provide additional server requirements for review		1.26.17	1.31.17		
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3	Set up SharePoint site for project		1.26.17	1.26.17	1.26.17	
4	Develop Rack Layout for (4) Jetfires /(2) BC's. Utilizing existing space on Row 12	Kim Tran	1.26.17	1.27.16	1.27.16	
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6	Develop new IP scheme for new hardware South Plainfield hardware		1.27.17	1.31.17		
7	IP Plan for all of existing South Plainfield hardware in Durham					TBD
8	Relocate (5) Lenovo servers to 12AE server rack		1.26.17	1.27.16		
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10	Run all cables for new hardware additions (array/hosts)	Kim Tran /	1.26.17	2.2.17		
11	Array configurations and setup	Kim Tran /	1.26.17	2.7.17		
12	Host configurations	Bryan	1.26.17	2.3.17		
13	Handover relocated setups to Customer	All	1.26.17	2.7.17		

From: Tran, Ngoc
Sent: Friday, January 27, 2017 11:56 PM
To:
Subject: RE: south plainfield - arrays

Ed,

Please find the rack layouts for the 4x jetfires/vnx's and 2 beachcombers/vnxe's at row12 in lab 1

===Joey, please confirm===

Racks to be cleared:

12AP (2 x beachcombers/vnxe's with 2x daes); to be relocated to 12AJ; there are 2 servers, I think these are to be scrapped/decomm?

12AK (2 x jetfires/vnx's); should have 'deimos' and 'phobos' to be relocated to 12AH

12AI (2 x jetfires/vnx's); should have 'oberon' and 'titania' to be relocated to 12AJ and 12AF respectively

=======================

These should be the corresponding sn's from a manual audit:

12AI
OBERON
VNX7600 - APM00134401843
Data Mover 2/3 - APM00134501225
Data Mover 4/5 - APM00134501226
CS - FC6NS133100054

12AI
TITANIA
VNX7600 - APM00134501934
Data Mover 2/3 - APM00134501227
Data Mover 4/5 - APM00134501957
CS - FC6NS134000456

12AK
DEIMOS
VNX7600 - APM00123700953
Data Mover 2/3 - APM00134702493
Data Mover 4/5 - APM00134702494
CS - FC6NS134500531

12AK
PHOBOS
VNX7600 - APM00134700954
Data Mover 2/3 - APM00134503282

Data Mover 4/5 - APM00134603281
CS - FC6NS134000287

12AP
VNXE – FNM00131900112
VNXE – FNM00131900114
DAE – JWXEC140701339
DAE – US1D1100601190

As mentioned, you can go ahead and relocate the beachcomber/vnxe's.
Attach the sas cables from port bus 0 of the dpe to port 1 of the dae, for spa and spb, or just leave one end of sas cable plugged in and I'll connect ☺

I will get with you on Monday to follow up and confirm the go ahead with the jetfires/vnx's – as soon as I map the existing backend connections, I should be done by the time you're in around 2pm.

Thanks,

Kim Tran
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-------- Original message --------
From: "Tran, Ngoc" <Ngoc.Tran@emc.com>
Date: 1/27/17 5:14 PM (GMT-05:00)

Subject: south plainfield - arrays

Hey Ed,

I should be done with the rack move layout this evening,
I can send that over when done, but just an fyi – PLEASE DO NOT MOVE THEM YET.
I want to finish mapping the existing backend cabling to cross-reference with the documentation.
I'll let you know when ready to do the physical move, it shouldn't be no later than Monday.

Thanks,

Kim Tran
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ngoc.tran@dell.com

_____

████████████████████

Sent: Thursday, January 12, 2017 11:50 AM
██; Tran, Ngoc

Subject: RE: South Plainfield Relocation to Durham Review Part two Update 1.12.17

All,
Many thanks for your time to review the planning to relocate the attached hardware from South Plainfield to Durham Lab 1.

Please see below for a summary of our meeting and the actions planned and key activities.

Summary

Meeting to discuss and planning the reinstallation of 4 racks of hardware from South Plainfield to Durham. Team reviewed shipping status, hardware listing, IP changes and expectations for availability in Durham. As discussed we will need to look for alternatives to reinstallation of some of the older server hardware and prioritize the VNX array bring-up.

Timeline

Target Date to complete all Work 1.27.17 (Initial focus will be on all prioritized hardware – as provided by Chris ████████)

Key Project Notes

<mark>•   Durham project team assembled to support reinstallation and re-ip addressing effort.</mark>
        o   <mark>Kim Tran – VNX; ████████ – Servers/VMs; ████████ - EGS</mark>
•   ████████ - Single Point of Contact for all requirements gathering and liaison into Engineering team.
•   Hardware availability – Equipment is scheduled to be picked up from South Plainfield on 1.13.17. Expected delivery to Durham will be the week of 1.16-1.20.
•   Request made to add primes to shipping tracking emails and updates.
•   Additional Networking equipment will be included in the shipment for Rob Greene.
•   New IP Scheme for incoming and existing South Plainfield hardware will be developed to transition area to new required IP addressing as part of this project.

SouthPlainfieldH...

Cheers,
Joey

-----Original Appointment-----
From: ████████████
Sent: Friday, January 06, 2017 3:14 PM
To: ██ an, Ngoc
Subject: South Plainfield Relocation to Durham Review Part two
When: Thursday, January 12, 2017 10:30 AM-11:00 AM (UTC-05:00) Eastern Time (US & Canada).
Where: Conference Bridge 888.643-3084 (Toll-Free) Access Code 64852067