

Rothco's Current I.T. Infrastructure



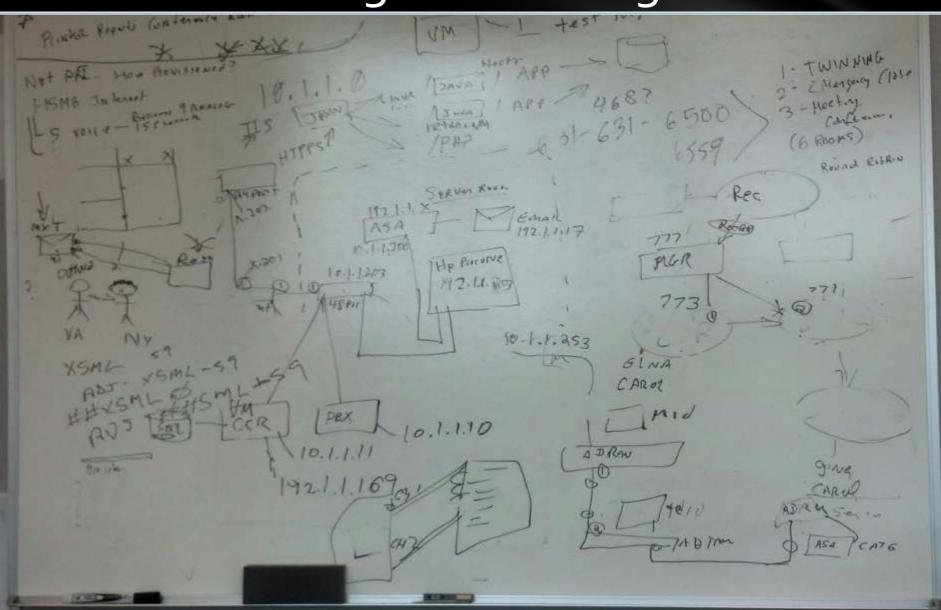
What has Rothco done to ensure 24/7 operational efficiency?

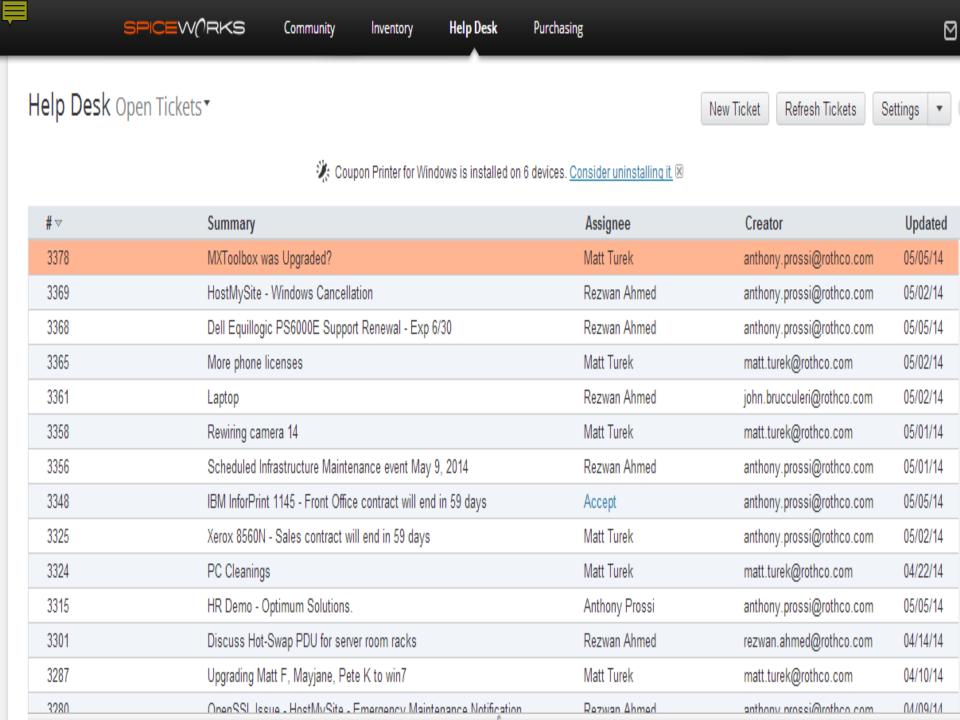
How have we been able to achieve this?

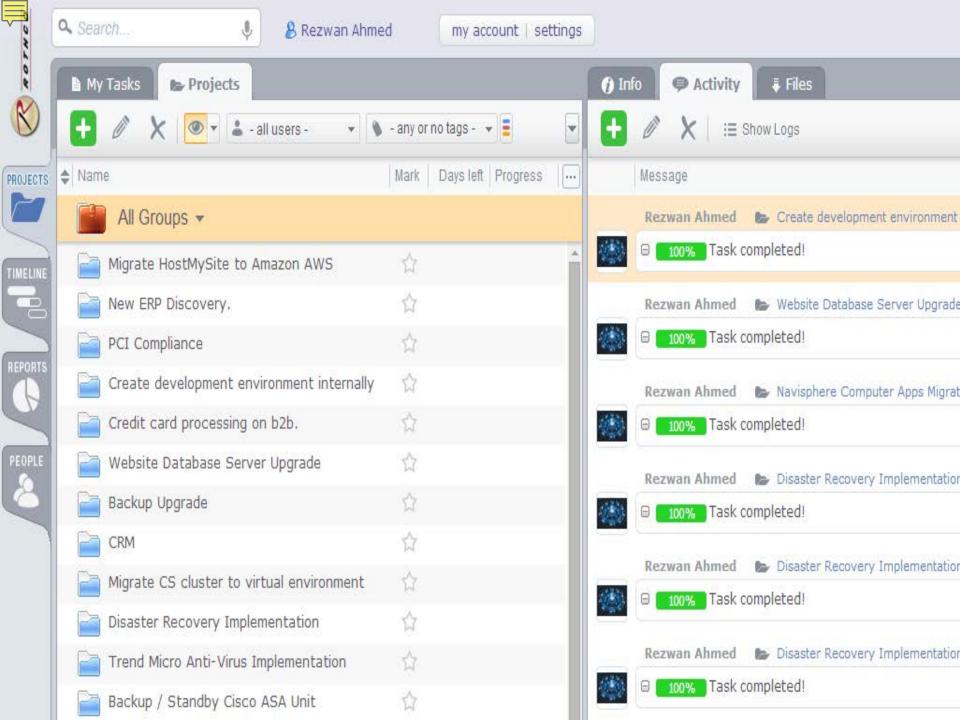
Outline of Topics to be covered:

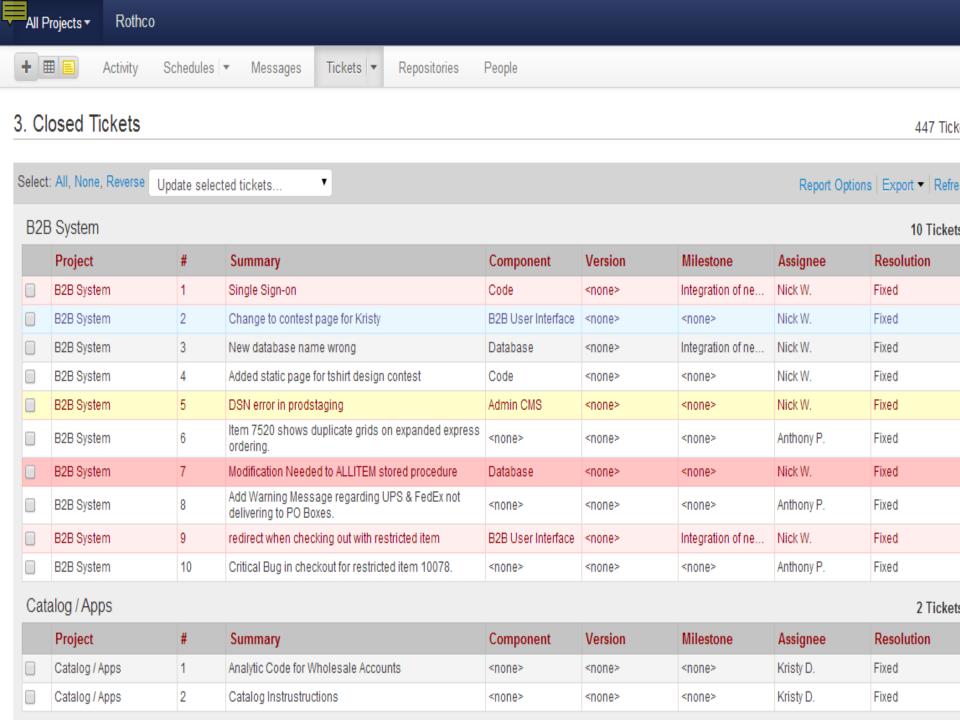
- → Meetings, Planning and Software Tools
- → Redundancy, Virtualization and Backups
- → Phone System and Vuesion Call Center
- → Network Infrastructure and Emergency Email
- → Website Infrastructure and Software Monitors
- → Printer Upgrades and Computer Room Expansion
- → Electrical Upgrades and Facility Generator

Meetings & Planning



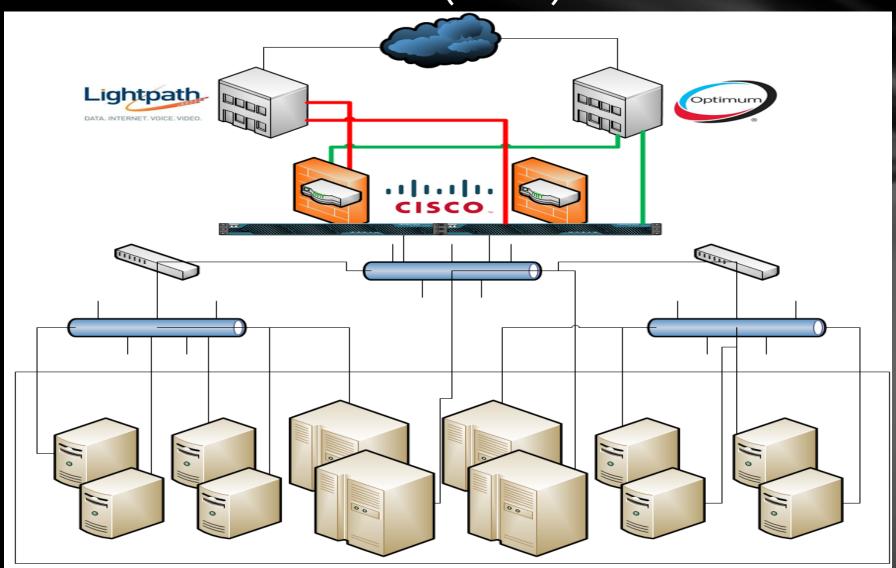








Rothco's Dual Internet Service Providers (ISP's)



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Rothco Virtualized Servers & Cloud

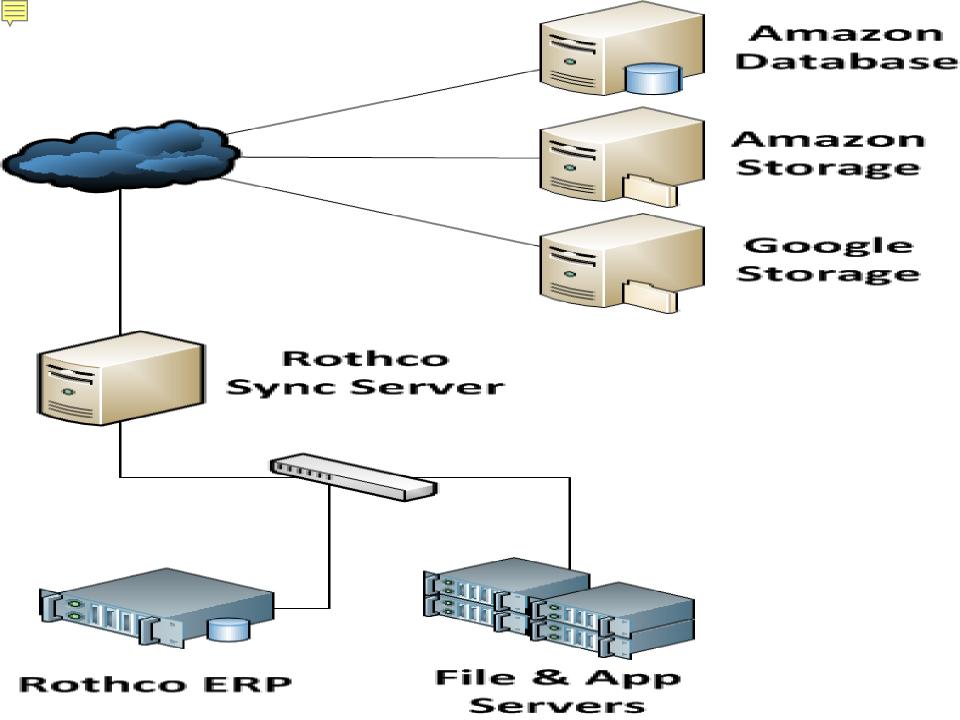
Name	Status	Start time	End time	Size	Read	Transferred	Duration	Detai
EXCAS1	Success	7:01:11 PM	7:05:00 PM	120.0 GB	1.2 GB	386.3 MB	0:03:49	
EXMB1	Success	7:01:13 PM	7:11:13 PM	320.0 GB	10.3 GB	4.8 GB	0:10:00	
EXMB2	Success	7:03:55 PM	7:06:06 PM	180.0 GB	473.0 MB	109.8 MB	0:02:11	
EXMB3	Success	7:04:07 PM	7:06:31 PM	180.0 GB	422.0 MB	140.4 MB	0:02:24	
AD1	Success	7:05:19 PM	7:08:09 PM	80.0 GB	1.0 GB	304.2 MB	0:02:49	
AD2	Success	7:05:46 PM	7:08:31 PM	80.0 GB	940.0 MB	252.8 MB	0:02:44	
AV1	Success	7:07:18 PM	7:13:47 PM	60.0 GB	7.0 GB	3.6 GB	0:06:28	
TS1	Success	7:07:45 PM	7:12:02 PM	85.0 GB	1.2 GB	348.4 MB	0:04:16	
vCenter1	Success	7:10:32 PM	7:13:51 PM	80.0 GB	1.9 GB	481.1 MB	0:03:18	
vmSync1	Success	7:10:55 PM	7:15:31 PM	60.0 GB	2.3 GB	943.1 MB	0:04:36	
BCM1	Success	7:12:09 PM	7:14:48 PM	60.0 GB	712.0 MB	198.8 MB	0:02:39	
Navisphere	Success	7:13:51 PM	7:15:01 PM	14.0 GB	168.0 MB	57.3 MB	0:01:10	
JetPrintMonitor	Success	7:13:53 PM	7:16:17 PM	13.0 GB	1.6 GB	634.2 MB	0:02:24	
netMon	Success	7:11:17 PM	7:12:40 PM	40.0 GB	357.0 MB	92.8 MB	0:01:23	
vmXPtestO9i	Success	7:14:50 PM	7:17:34 PM	13.0 GB	1.8 GB	1.1 GB	0:02:44	





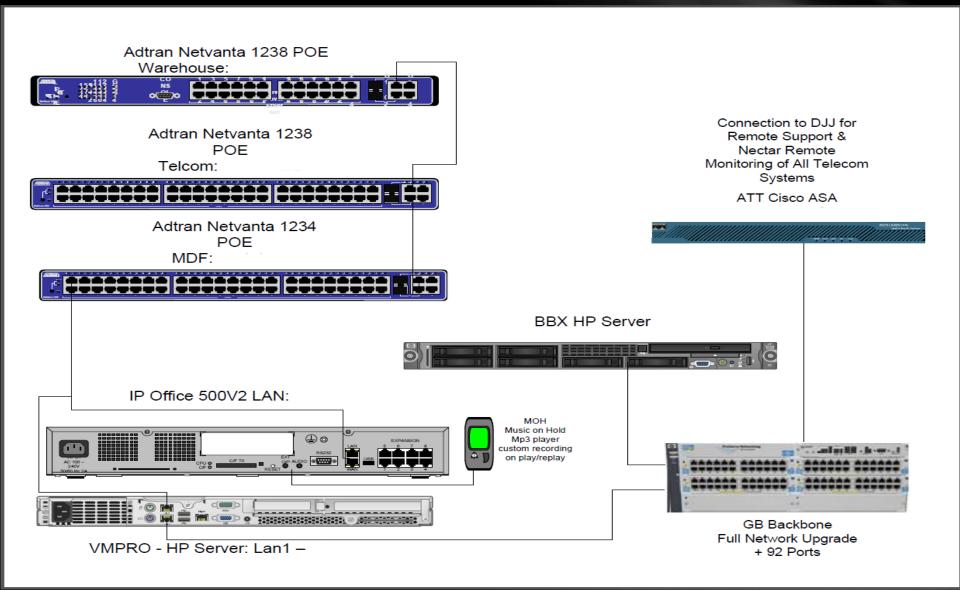
EQUALLOGIC





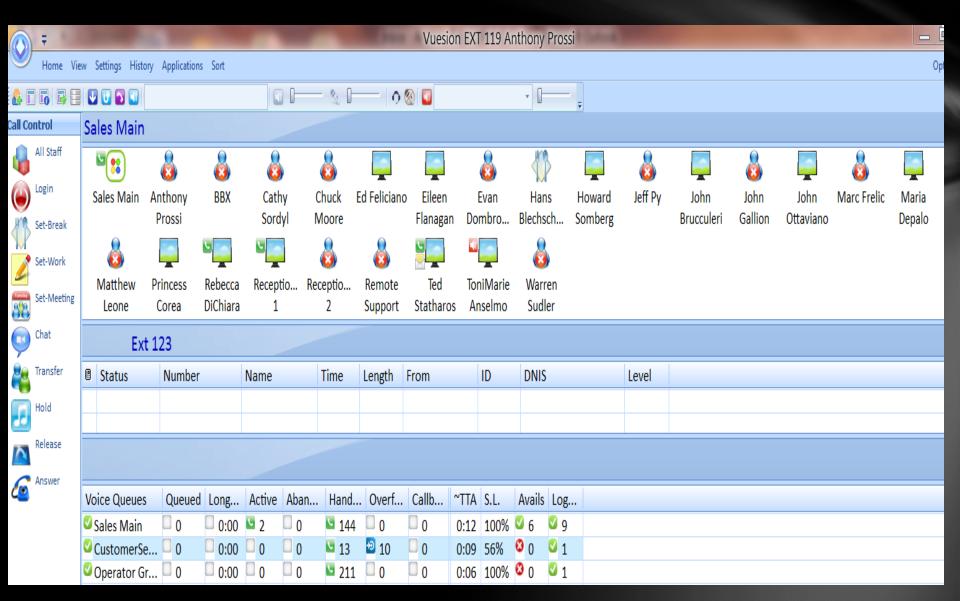


Rothco's Voice Over Internet Protocol (VOIP) Phone System





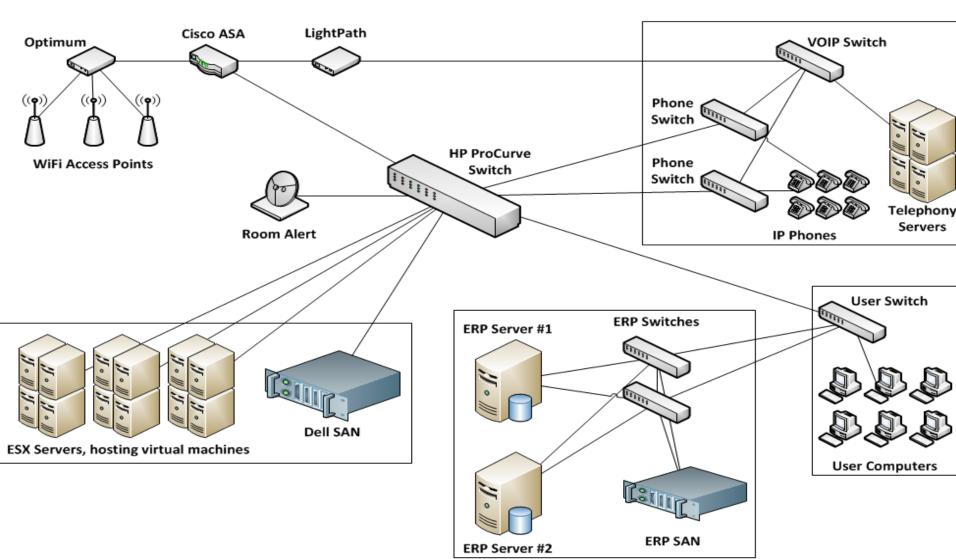
Vuesion Call Center





Rothco's Network Infastructure.

The Rothco Environment



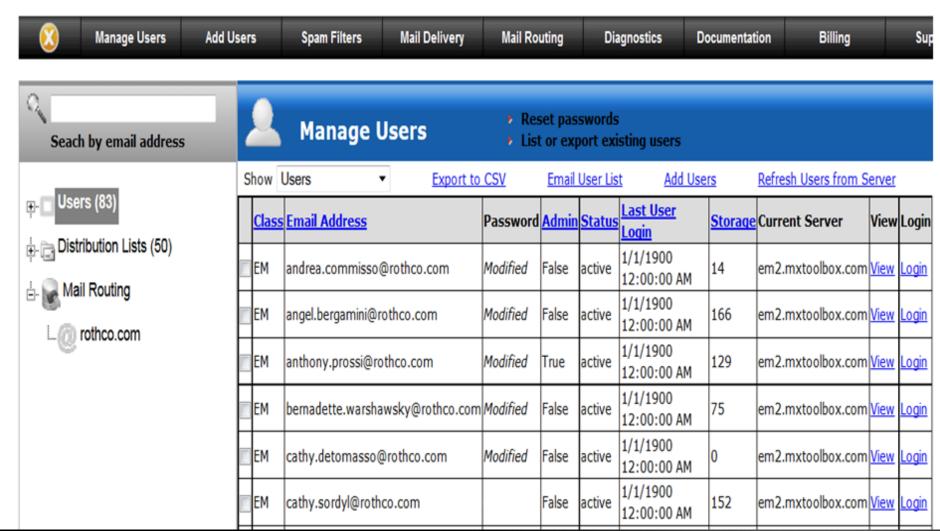


Rothco's Emergency Email Services.



ROTHCO - Emergency Mail Services

Logout, anthony.prossi@ro

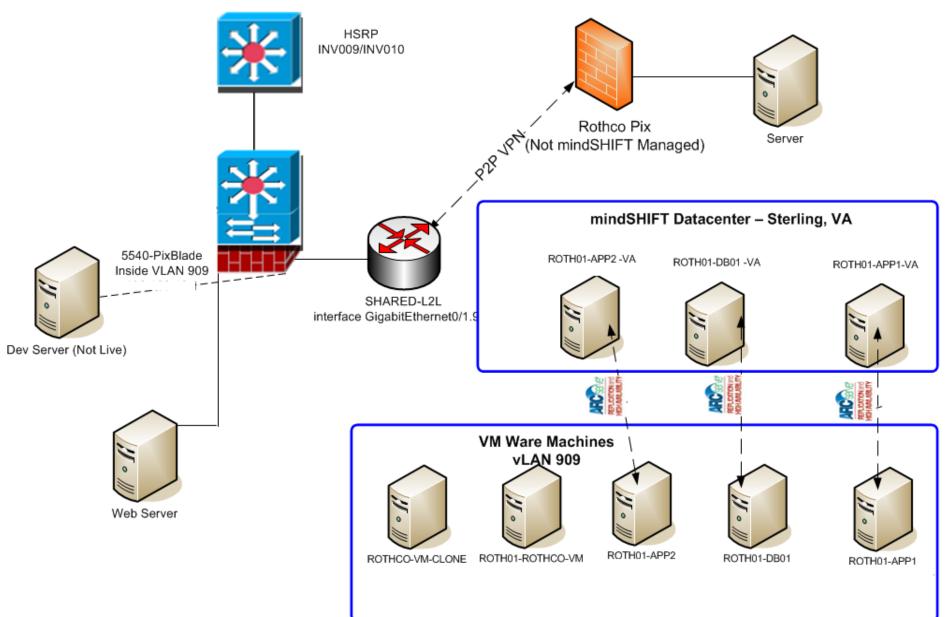




Rothco Colo-Network Diagram



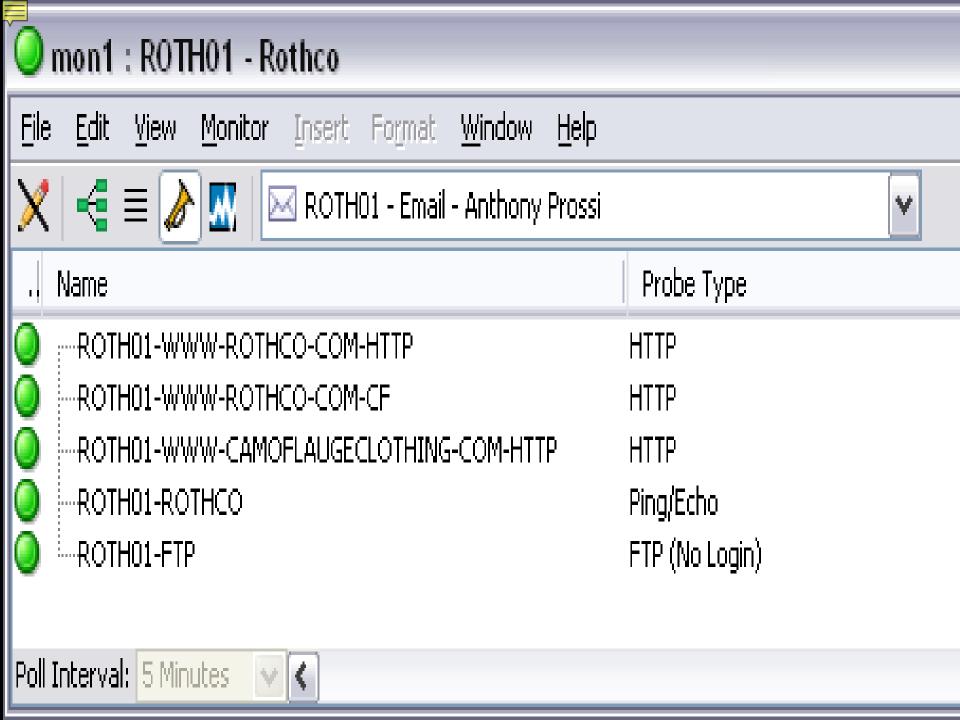






Rothco's Website Data Sync

Α	В	С	D	E	F	G	Н	I	J	K	L	М	N
Sort Order	Туре	Table	Records	Size in MB's	Frequency in Hours	May evenutally change	to	Last run Duration	rounded off run time	Start Time)		
1	Item	PC_CATS	671	1	12	12		18 seconds	0.5 minutes	1:50AM	1:50PM	1:50AM	
1	Item	Prods	11,324	1	1	1		49 seconds	1 minute	1:55 AM	Every Hour	7:00AM	7:00PM
1	Item	PC_GR	19,087	2	1	1		43 seconds	1 minute	2:00AM	Every Hour	Ends At	2:00PM
2	Customer	ADD_REC	63,060	22	2	1		39 seconds	1 minute	7:35AM	Every Hour	Ends At	6:45PM
2	Customer	Customers	73,758	7	2	1		15 seconds	.5 minutes	7:40AM	Every Hour	Ends At	6:45PM
2	Customer	CU_SPTO	14,000	1	2	1		2 seconds	.25 minutes	7:45AM	Every Hour	Ends At	6:45PM
3	Pricing	PRC_HD	335	1	6	4		16 seconds	0.5 minutes	2:05AM	8:05AM	2:05PM	8:05PM
3	Pricing	Prices	120,449	10	6	4		1 minute 44 seconds	2 minutes	2:10AM	8:10 AM	2:10PM	8:10PM
3	Pricing	PRC_CU	1,135	1	6	4		16 seconds	0.5 minutes	2:15AM	8:15AM	2:15PM	8:15PM
3	Pricing	Cust_Price	27,285	6	6	4		5 minutes 5 seconds	5.5 minutes	2:20AM	8:20AM	2:20PM	8:20PM
4	Order	OR_SHPTO	185,060	5	6	4		3 minutes 41 seconds	4 minutes	2:35AM	8:35AM	2:35PM	2:35AM
5	Restrictions	EXP_HD	30	1	12	12		16 seconds	0.5 minutes	3:00AM		12:25PM	
5	Restrictions	EXP_CNTY	467	1	12	12		17 seconds	0.5 minutes	3:05AM		12:20PM	
5	Restrictions	EXP_PC	2,425	1	12	12		17 seconds	0.5 minutes	3:10AM		3PM	
6	Purchase	PO_Detail	143,808	12	24	12		22 seconds	0.5 minutes	11:15PM			
6	Purchase	PO_GR	145,612	11	24	12		5 minutes 5 seconds	5.5 minutes	11:30PM			
7	Units	CNVERTS	2	1	24	24		17 seconds	0.5 minutes	12:25AM			
7	Country	Regions		1	24			2 min 5 seconds	2.5 minutes	11:00PM			





Service Status Details For All Hosts

Host ↑↓	Service ↑↓	Status ↑↓	Last Check ↑↓	Duration ↑√	Attempt ↑↓	Status Information
ES2	C:\ Drive Space	ок	2014-05-12 11:45:39	0d 0h 6m 19s	1/12	c: - total: 33.91 Gb - used: 21.35 Gb (63%) - free 12.55 Gb (37%)
	CPU Load	ОК	2014-05-12 11:46:37	0d 0h 5m 21s	1/12	CPU Load 1% (5 min average)
	Memory Usage	OK	2014-05-12 11:42:35	0d 0h 4m 23s	1/12	Memory usage: total:11915.72 Mb - used: 1403.31 Mb (12%) - free: 10512.41 Mb (88%)
	NSClient++ Version	ОК	2014-05-12 11:43:33	0d 0h 3m 25s	1/12	NSClient++ 0,4,1,102 2013-07-15
	<u>Uptime</u>	OK	2014-05-12 11:44:31	0d 0h 2m 27s	1/12	System Uptime - 11 day(s) 3 hour(s) 12 minute(s)
Sugar1	C:\ Drive Space	ОК	2014-05-12 11:45:29	0d 0h 1m 29s	1/12	c: - total: 40.00 Gb - used: 20.33 Gb (51%) - free 19.67 Gb (49%)
	CPU Load	ОК	2014-05-12 11:45:48	0d 0h 6m 10s	1/12	CPU Load 0% (5 min average)
	Memory Usage	ок	2014-05-12 11:46:46	0d 0h 5m 12s	1/12	Memory usage: total:4799.53 Mb - used: 1384.75 Mb (29%) - free: 3414.78 Mb (71%)
	NSClient++ Version	ок	2014-05-12 11:42:44	0d 0h 4m 14s	1/12	NSClient++ 0,4,1,102 2013-07-15
	<u>Uptime</u>	ОК	2014-05-12 11:43:42	0d 0h 3m 16s	1/12	System Uptime - 12 day(s) 2 hour(s) 3 minute(s)
<u>localhost</u>	<u> </u>	ОК	2014-05-12 11:44:41	95d 21h 49m 14s	1/12	HTTP OK: HTTP/1.1 200 OK - 454 bytes in 0.001 second response time
	PING	ОК	2014-05-12 11:45:39	81d 0h 12m 46s	1/12	PING OK - Packet loss = 0%, RTA = 0.04 ms
	Root Partition	ОК	2014-05-12 11:45:58	81d Oh 12m 9s	1/12	DISK OK - free space: / 30914 MB (90% inode=91%):
	SSH	ОК	2014-05-12 11:41:56	75d 17h 19m 1s	1/12	SSH OK - OpenSSH_5.9p1 Debian-5ubuntu1.1 (protocol 2.0)
	Swap Usage	ОК	2014-05-12 11:42:54	81d 0h 10m 54s	1/12	SWAP OK - 100% free (4093 MB out of 4093 MB)
	Total Processes	ОК	2014-05-12 11:43:52	95d 21h 47m 34s	1/12	PROCS OK: 65 processes with STATE = RSZDT
vCenter1	C:\ Drive Space	ок	2014-05-12 11:44:50	0d 0h 2m 8s	1/12	c: - total: 79.66 Gb - used: 29.80 Gb (37%) - free 49.86 Gb (63%)
	CPU Load	OK	2014-05-12 11:45:48	0d 0h 1m 10s	1/12	CPU Load 0% (5 min average)
	Memory Usage	ОК	2014-05-12 11:46:08	0d 0h 5m 50s	1/12	Memory usage: total:7871.56 Mb - used: 6218.55 Mb (79%) - free: 1653.01 Mb (21%)
	NSClient++ Version	OK	2014-05-12 11:42:06	0d 0h 4m 52s	1/12	NSClient++ 0,4,1,102 2013-07-15
	<u>Uptime</u>	OK	2014-05-12 11:43:04	0d 0h 3m 54s	1/12	System Uptime - 13 day(s) 1 hour(s) 54 minute(s)
vmBS1	C:\ Drive Space	ок	2014-05-12 11:44:02	0d 0h 2m 56s	1/12	c: - total: 39.66 Gb - used: 31.70 Gb (80%) - free 7.95 Gb (20%)
	CPU Load	OK	2014-05-12 11:45:00	0d 0h 1m 58s	1/12	CPU Load 0% (5 min average)
	Memory Usage	ОК	2014-05-12 11:45:58	0d 0h 1m 0s	1/12	Memory usage: total:4799.53 Mb - used: 1612.63 Mb (34%) - free: 3186.90 Mb (66%)
	NSClient++ Version	ОК	2014-05-12 11:46:17	0d 0h 5m 41s	1/12	NSClient++ 0,4,1,102 2013-07-15
	<u>Uptime</u>	OK	2014-05-12 11:42:15	0d 0h 4m 43s	1/12	System Uptime - 3 day(s) 21 hour(s) 51 minute(s)
vmSync1	C:\ Drive Space	ОК	2014-05-12 11:43:13	0d 0h 3m 45s	1/12	c: - total: 59.66 Gb - used: 19.80 Gb (33%) - free 39.86 Gb (67%)
	CPU Load	OK	2014-05-12 11:44:11	0d 0h 2m 47s	1/12	CPU Load 0% (5 min average)
	Memory Usage	ОК	2014-05-12 11:45:10	0d 0h 1m 48s	1/12	Memory usage: total:7103.55 Mb - used: 1175.39 Mb (17%) - free: 5928.16 Mb (83%)
	NSClient++ Version	OK	2014-05-12 11:46:08	0d 0h 0m 50s	1/12	NSClient++ 0,4,1,102 2013-07-15
	<u>Uptime</u>	OK	2014-05-12 11:46:27	0d 0h 5m 31s	1/12	System Uptime - 59 day(s) 20 hour(s) 37 minute(s)



Nagios[®]

General Home

- Documentation
- **Current Status**

Tactical Overview

- Map
- Hosts
- Services
- Host Groups
- Summary
- Grid
- Service Groups
- Summary
- Grid Problems
- Services (Unhandled)
- Hosts (Unhandled)
- Network Outages





Trends

Alerts

Last Updated: Mon May 12 15:06:52 EDT 2014 Updated every 90 seconds Nagios® Core™ 3.2.3 - www.nagios.org Logged in as nagiosadmin

View History For all hosts View Notifications For All Hosts View Host Status Detail For All Hosts

Current Network Status

Host Status Totals



Service Status Details For All Hosts

HOSE I V	Jetvice 1 *	Jacus	Last Clicck 1	Durauvii	Attempt	Julia IIIoililuuoii
ES2	C:\ Drive Space	OK	2014-05-12 15:04:06	0d 3h 4m 40s	1/12	c: - total: 33.91 Gb - used: 21.35 Gb (63%) - free 12.55 Gb (37%)
	CPU Load	OK	2014-05-12 15:05:03	0d 3h 4m 40s	1/12	CPU Load 4% (5 min average)
	Memory Usage	OK	2014-05-12 15:06:00	0d 3h 4m 40s	1/12	Memory usage: total:11915.72 Mb - used: 1404.92 Mb (12%) - free: 10510.80 Mb (88%)
	NSClient++ Version	OK	2014-05-12 15:01:57	0d 3h 4m 11s	1/12	NSClient++ 0,4,1,102 2013-07-15
	<u>Uptime</u>	OK	2014-05-12 15:02:53	0d 3h 3m 13s	1/12	System Uptime - 11 day(s) 6 hour(s) 29 minute(s)
Hostl/lySite (<u> http</u>	CRITICAL	2014-05-12 15:03:50	0d 0h 3m 2s	1/12	CRITICAL - Socket timeout after 10 seconds
	<u>PING</u>	OK	2014-05-12 15:04:14	0d 0h 32m 38s	1/12	PING OK - Packet loss = 0%, RTA = 18.84 ms
	Root Partition	OK	2014-05-12 15:05:11	0d 0h 31m 41s	1/12	DISK OK - free space: / 30343 MB (88% inode=89%):
	<u>SSH</u>	OK	2014-05-12 15:06:08	0d 0h 30m 44s	1/12	SSH OK - OpenSSH_5.3 (protocol 2.0)
	Swap Usage	OK	2014-05-12 15:02:05	0d 0h 29m 47s	1/12	SWAP OK - 100% free (4093 MB out of 4093 MB)
	Total Processes	OK	2014-05-12 15:03:01	0d 0h 28m 51s	1/12	PROCS OK: 65 processes with STATE = RSZDT
Oursel III	0.4 0.5 0	OV	2044 05 42 45 02 50	04.05.045-	445	Little 10 00 Ob 20 04 Ob /E40/
Sugar1 3	C:\ Drive Space	OK	2014-05-12 15:03:58	0d 3h 2m 15s	1/12	c: - total: 40.00 Gb - used: 20.34 Gb (51%) - free 19.66 Gb (49%)
	CPU Load	OK	2014-05-12 15:04:22	0d 3h 4m 40s	1/12	CPU Load 2% (5 min average)



Job Order Ticket Printer Upgrades.

Talk about speed of old vs new printers.

Move backup printer into a strategic location?









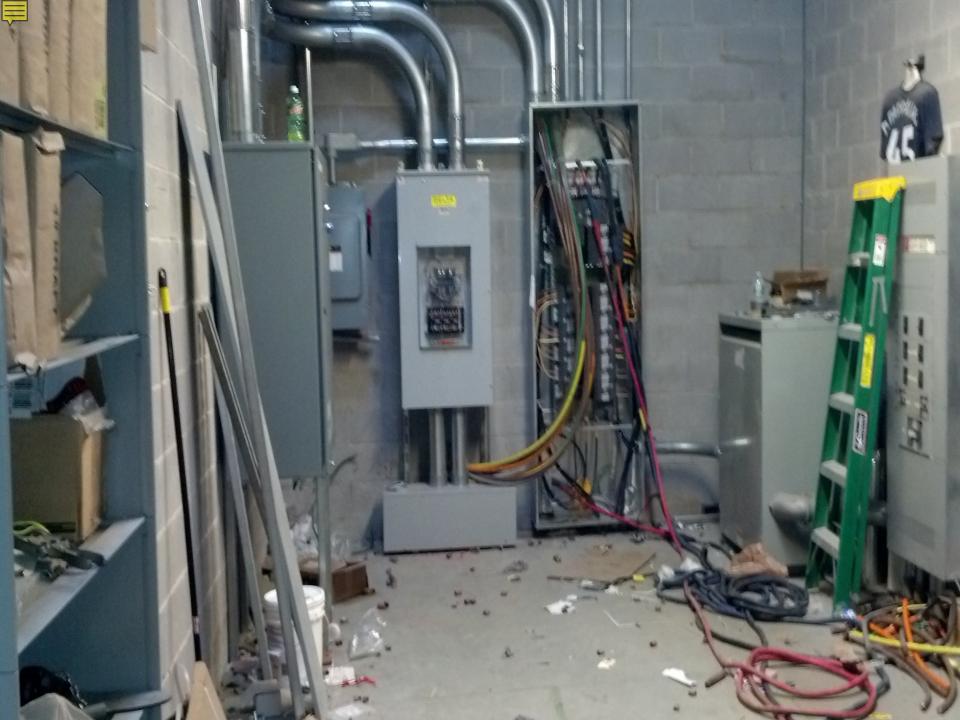


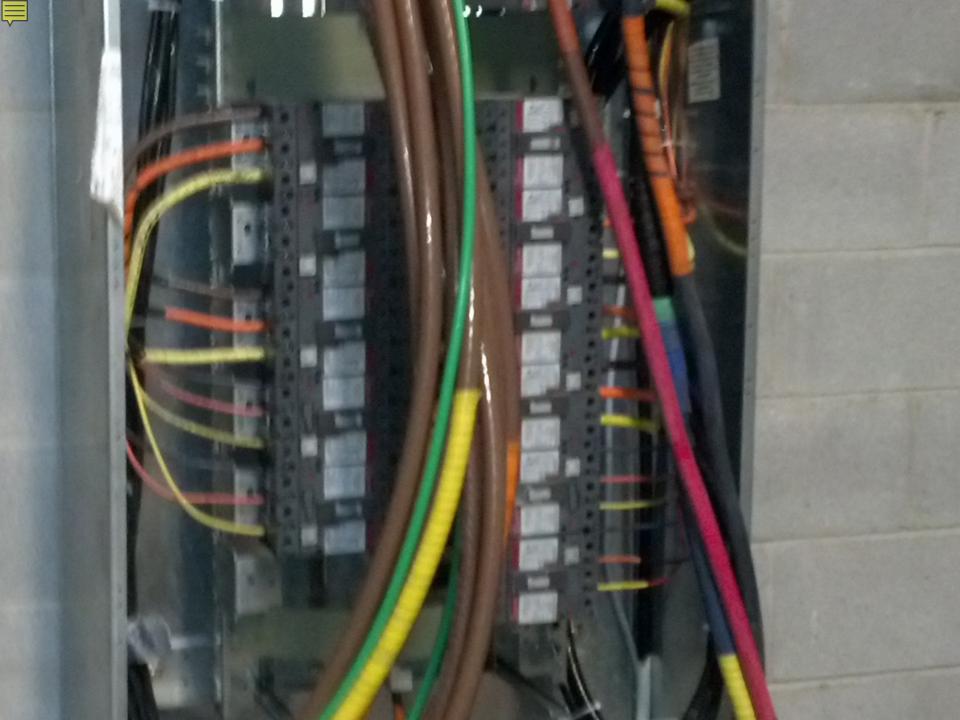


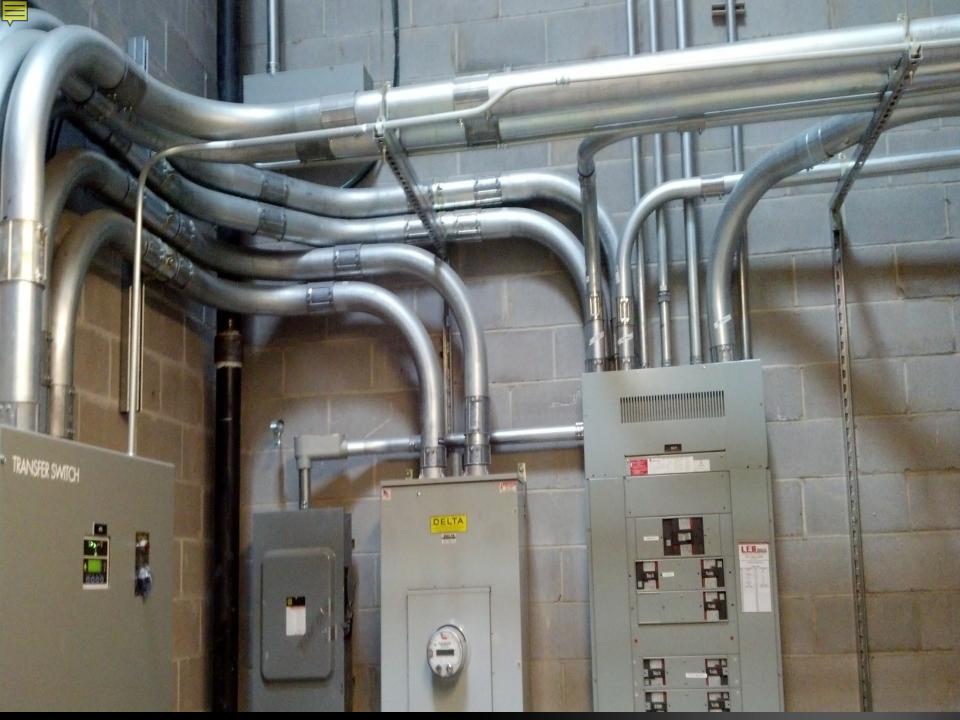














TRANSFER SWITCH







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ROTHCO