

Student Lab Worksheet

Note: This lab environment has been created inside a vApp built on a vCloud Director configuration. The environment uses its own set of IP addresses for the virtual machines within its vApp. These same virtual machines also have external IP addresses for VPN connection.

Log in to the Virtual Data Center

Log in to the virtual data center using the URL: <https://vdc.emc.com>

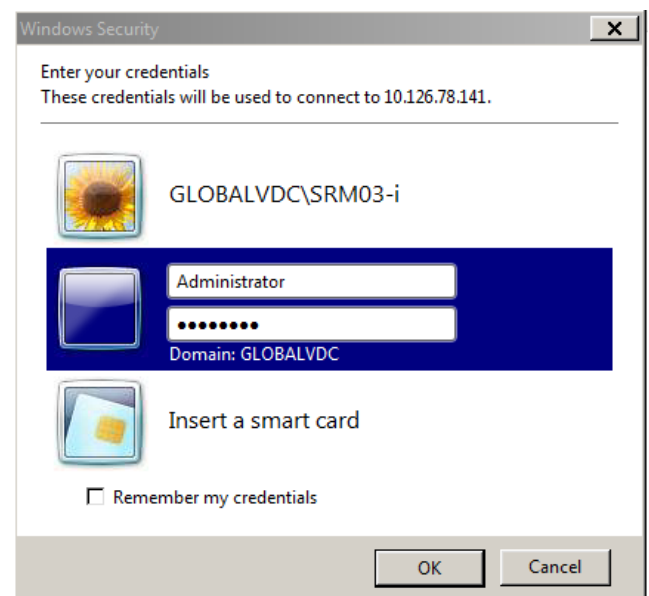
Student Name	Student#	VDC User	Password
Kery Hines	student 1	SRMADMIN2-01	670856
Ashok Kumar1 Reddy	student 2	SRMADMIN2-02	670856
Pulavarpu, Utham	student 3	SRMADMIN2-03	670856
Susan Kaplow	student 4	SRMADMIN2-04	670856
Kommaraju, Raghukumar	student 5	SRMADMIN2-05	670856
Douglas Novellano	student 6	SRMADMIN2-06	670856
Ati Sekhar	student 7	SRMADMIN2-07	670856
Scott Taylor	student 8	SRMADMIN2-08	670856
James Walter Gonzales	student 9	SRMADMIN2-09	670856
Krishnam Raju Vathsavai	student 10	SRMADMIN2-10	670856
Shibu Thayil	student 11	SRMADMIN2-11	670856
Samir Hasan	student 12	SRMADMIN2-12	670856

Launch Your Windows Server

Click the link matching your Student number to launch your windows server. You will be performing lab exercises from that server.

If you are prompted to install the **Citrix Receiver** software (allows Windows RDC through the HTTPS connection), you can download it from the Citrix web site. *Install* the plug-in in your browser then restart it.

When logging into windows server - **Do not use the GLOBALVDC** domain account. Click on "Use another account" and log in as **Administrator** with the password: **password** (the prompt will still read: "Domain: GLOBALVDC"). In the security window for certificates select "Yes" to the question "Do you want to connect despite



these certificate errors?" You should now connect to your assigned workstation

Citrix Receiver for Windows: <http://www.citrix.com/go/receiver.html>

Citrix Receiver for Mac OS: <http://www.citrix.com/downloads/citrix-receiver/mac/receiver-for-mac-1182.html>

Windows 2008 R2 Server (External IP addresses)

Host IP	Host Name	Student#	User	Password
10.126.138.31	SRM-WIN1-----	student 1	administrator	password
10.126.138.32	SRM-WIN2-----	student 2		
10.126.138.33	SRM-WIN3-----	student 3		
10.126.138.34	SRM-WIN4-----	student 4		
10.126.138.35	SRM-WIN5-----	student 5		
10.126.138.36	SRM-WIN6-----	student 6		
10.126.138.37	SRM-WIN7-----	student 7		
10.126.138.38	SRM-WIN8-----	student 8		
10.126.138.39	SRM-WIN9-----	student 9		
10.126.138.40	SRM-WIN10-----	student 10		
10.126.138.41	SRM-WIN11-----	student 11		
10.126.138.42	SRM-WIN12-----	student 12		

Windows 2008 R2 Server (Internal IP addresses)

Host IP	Student#	User	Password
192.168.2.11	----- student 1	administrator	password
192.168.2.13	----- student 2		
192.168.2.15	----- student 3		
192.168.2.17	----- student 4		
192.168.2.19	----- student 5		
192.168.2.21	----- student 6		
192.168.2.23	----- student 7		
192.168.2.25	----- student 8		
192.168.2.27	----- student 9		
192.168.2.29	----- student 10		
192.168.2.31	----- student 11		
192.168.2.33	----- student 12		

SRM Internal User Interface (use for labs)

ViPR SRM UI	User	Password
http://192.168.2.12:58080/APG	student#	student

(e.g. Student 1 will log in as "student1")

The Linux host name is “SRM-Linux”

LAB NOTES:

Lab 1, part 1, step 3 - verify the Solution Packs installed are:

Brocade FC Switch

EMC ViPR

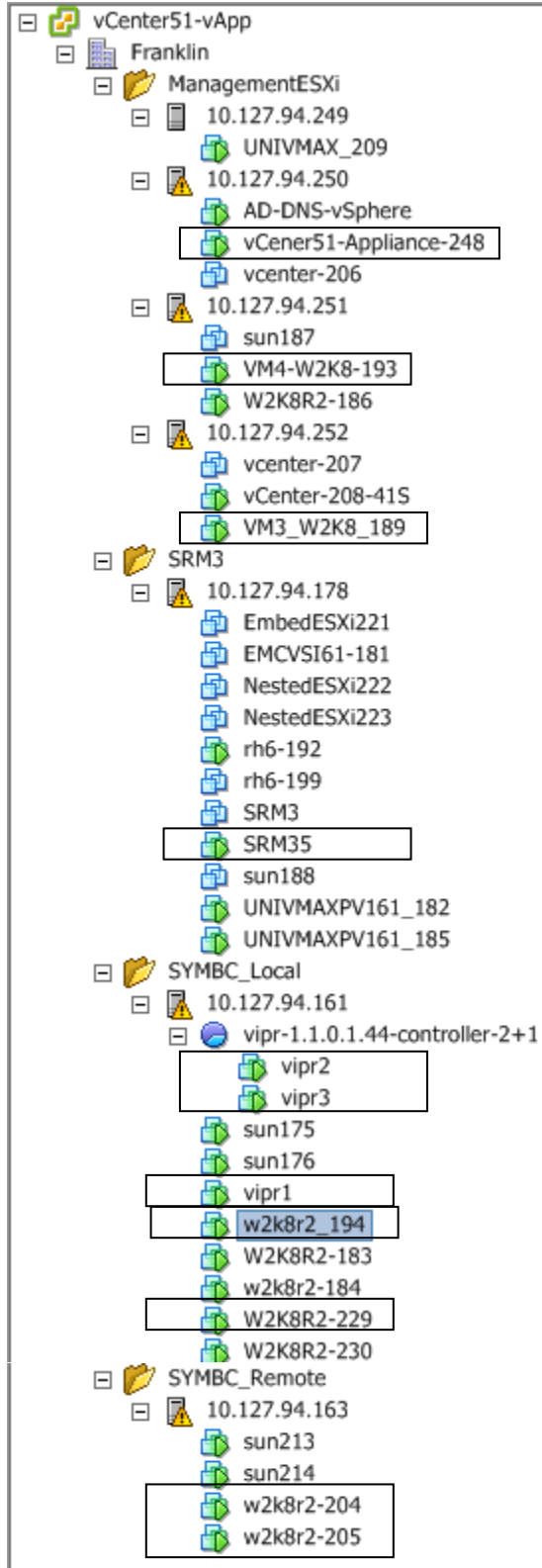
EMC VMAX

EMC VNX

EMC Watch4net Health

VMware vCenter

Lab 5, part 1, step 1 use array “000192606304”



Slide Notes for Module 1.

Slide 6 (Course and lab environment):

Array Serial numbers

VNX200 – APM00134401136 (Unified)

SPA – 10.127.136.213

SPB – 10.127.136.214

CS – 10.127.136.200

VNX152 – APM00134303866 (Block)

VMAX 304 – 000192606304

VMAX327 – 000192606327

VMAX102 – ViPR instance (ViPR VMAX 10k-102)

Slide 7 (ViPR SRM Deployment for Course and Lab):

ESXi Server – 10.127.94.248

All-in-one-vApp – 10.127.94.180

Slide 8 (Configuration for VMAX Discovery) :

VM1 – W2k8R2-186, IP 10.127.94.186, on ESX server 10.127.94.251

Hosts Unisphere for VMAX

VM3 – VM3_W2K8_189, IP 10.127.94.189, on ESX server 10.127.94.252

Hosts Solutions Enabler 7.6.2.8 with the storevntd daemon for forwarding snmp traps to ViPR SRM

VM4 – VM4-W2K8-193, IP 10.127.94.193, on ESX server 10.127.94.251

ViPR SRM VM – SRM35, IP 10.127.94.180, on ESX server 10.127.94.178

VM6 – w2k8r2-204, IP 10.127.94.204, on ESX server 10.127.94.163

Hosts Solutions Enabler 7.6.2.8 with the storevntd daemon for forwarding snmp traps to ViPR SRM

VM7 - w2k8r2-205, IP 10.127.94.205, on ESX server 10.127.94.163

To view 204 follow:

All >> Explore >> Hosts >> 10.127.94.163 >> Device Summary >> 10.127.94.163 >> Virtual Machines >> Virtual Machines >> w2k8r2-204

Slide 9 (Configuration for VNX Discovery) :

VM5 – W2K8R2-229, IP 10.127.94.229, on ESX server 10.127.94.161

All >> Explore >> Storage >> Storage Systems >> APM00134303866 >> Device Summary >> Unified VNX-152 >> Enterprise - Path Details & Storage Connectivity

Check the “Array LUN” column and Compare LUN identities to :

All >> Explore >> Hosts >> 10.127.94.161 >> Device Summary >> 10.127.94.161 >> Virtual Machines >> Virtual Machines >> W2K8R2-229 >> Storage Path Details

Then compare “Storage Volume” column to check – it should be the same.

Slide 10 (Configuration for SAN Discovery) :

VM8 – W2K8R2, IP 10.127.94.194, on ESX server 10.127.94.161

VM8 has an SMI provider for Brocade discovery – needed for fabric discovery and zoning information. The vCenter name for this VM is w2k8r2_194

Snmp collectors are also configured for the Brocade switches

Slide 11 (Configuration for VMware vCenter Discovery):

VM-VMware vCenter server (vCenter51-vApp), IP 10.127.94.248, is configured on ESX server 10.127.94.250

Slide 12 (Configuration for ViPR Discovery):

ViPR discovery – ViPR controller VMs (vipr1, vipr2, vipr3), is located on ESX server 10.127.94.161

The EMC ViPR system IP address: 10.127.94.228

Virtual DataCenter friendly name: ViPR VMAX10K-102