Using Deploy-Vms.ps1

Wednesday, September 04, 2013

10:04 AM

* 1. RDP into the Excmgmt01osg server
  2. Open windows explorer and navigate to U:\share\scripts
  3. Make a copy of NewVMs-TEMPLATE.csv and rename to something relative to what your deploying

Machine generated alternative text: Scripts
- Favorites
Deslop
4 Downloads
Recent Places
-a Libraries
Documents
Music
Pictures
Videos
Computer
zifl
j j NewVMs-TEMPLATE - Copy.csv
a,j Microsoft Excel Comma Separated Values File
Date modified: 9/4/20 13 10:25 AM
Size: 220 bytes
Date created: 9/4/20 13 10:39 AM
itJ
[O (_i)’ r Computer UPDATES (U:) Share • Scripts
Organize  Open Share with Print New folder
Name
w  Search Scripts
EE j O
Date modified
Type Size
. Report-ADServerCountForLicensing
Automate Symantec AV install2,ps 1
AVInstaIl.txt
‘j Deploy-VMs.psi
j ListServerDrivesFreespace_Email . psi
I1,
6/20/2013 6:20 PM
7/8/2013 7:45 AM
7/16/20i3 8:34 AM
9/4/2013 10:30 AM
7/10/2013 9:22 AM
9/4/2013 10:25 AM
[‘twV[.ls-TEIVtPLXTE - Cppv!
LiJ New VMs-TEMPLATE.csv
File folder
Windows PowerShel...
Text Document
Windows PowerShel...
Windows PowerShel...
Microsoft Excel Com...
9/4/2013 10:25 AM
Microsoft Excel Com...
1 KS

* 1. Open your newly copied file in Excel.
  2. Populate the information below for each server you want to deploy
     + VMName - Name of the server
     + IPAddress - IP address that will be assigned to the server
     + SubnetMask - Subnet Mask that will be assigned to the server
     + Gateway - Gateway IP address that will be assigned to the server
     + VLAN - VLAN name on the VCenter you are deploying to - The name must match exactly as it is listed in VCenter (you may need to log into the VCenter and check the name)
     + Pool - Name of the VCenter cluster you want to deploy the machine to. The name must match exactly as it is listed in VCenter (you may need to log into the VCenter and check the name)

The below example is for deploying servers to the staging VCenter vcenter01sc.ecollege.net

Machine generated alternative text: A S C D _______ E - F
1 VMName IPAddress SubnetMask Gateway VLAN Pool
2 wsl5lsc 10.52.249.93 255.255.254.0 10.52.248.1 dvpg-CRN-VLAN-248 R720-02
3 wsl52sc 10.52.249.94 255.255.254.0 10.52.248.1 dvpg-CRN-VLAN-248 R720-03

* 1. Save your file - Please make sure that you save it as a Comma Seperated Value File ( .csv )
  2. Once your CSV file is updated and saved - Launch the "VMware vSphere PowerCLI (32-Bit)" client from Start ->All Programs -> VMWare -> VMware vSphere PowerCLI

* 1. In the "VMware vSphere PowerCLI (32-Bit)" change your directory to "U:\Share\Scripts" (cd u:\share\scripts)

Machine generated alternative text: a!-’ VMwre vSphere PcwerCLI 5.1 Release 1
PouerCLI C:\Progran Piles (x86)\UMware\Infrastructure\uSphere PowerCLI> cd u:\sh
are\scripts
PowerCLI U:\share\scripts>

* 1. Run the Deploy-VMs.ps1 script by typing in ".\Deploy-VMs.ps1"
  2. Select the VCenter you want to deploy the new VM's to
     + Staging (AthensQA) - vcenter01sc.ecollegeqa.net
     + Production (Athens) - esxmgmt01c.ecollege.net

Machine generated alternative text: j vcenter II 12
C vcenterOl sc.ecollegeqa.net
r esxmgmWl c ecollege. net
OK Cancel
4

* 1. Enter your credentials for connecting to the VCenter you have selected.

Machine generated alternative text: ‘Windows Powershell Credential Request ? I xl
Enter your credentials.
Qser name: C athensqa\stevens
Eassword: I
OK Cancel

* 1. You will be prompted to select the source file you created earlier to deploy your VM's

Machine generated alternative text: Please Select File :
1) deployStagingSeruers.csu
2) NewUMs—TEMPLATE.csu
Enter Selection Nunher

* 1. Enter the number that corresponds to the file you created, in the case above I would enter "1" and press enter.
  2. Select the template that you would like to use to deploy your servers and click "OK" (Clicking Cancel will exit the script)

Machine generated alternative text: I• SelectedTemplate SI!I 6)
r Template-mars
r Template-mars_OS-i 7-2013
r Template-neptune
r Template-NEXT -64bit-v5
r Template-N ext-S4bit-v5 05-08-201 3
r Template-N ext-S4bit-v5_05-1 3-20 1 3
r Template-N ext-S4bit-v5_05-1 3-2013-BACKUP
r Template-NEXT-B4bit-v5_05-30-201 3
r Template-ssl
r Template-st_OS-i 5-2013
r Template-Ubuntu-1 0.04
r Template-U buntu-1 204
r WIN2K3_64b1t_Standard_Clean
r WIN2KB_R2_Standard-v2.5.i
r WIN 2K8_R 2_S tandard-v2. 5.1_05-08-2013
r WIN 2KB_R 2_S tandard-v2. 5.1_05-1 3-2013
1 WIN2KB_R2_Standard-v2.5.i_07-1 5-2013
OK Cancel
4’

* 1. Select the customization you would like to use to deploy your servers and click "OK" (Clicking Cancel will exit the script)

Machine generated alternative text: Ifl Selectedcust IÍ 13’
r AUTOMATION-WIN2K3-32-bit-ECOLLESEQA.NET
r AUTOMATION-WIN2K3•64•bit-ECOLLEGEQA.NET
r AUTOMATION-WIN2K8•R2•ECOLLEGEQA.NET
r AUTDMATION-WIN2K8-R2-WORKGROUP
r Copy ol WIN2K8-R2-ECOLLEGEQA.NET-VLAN248
r U buntu-1 0.04
r LJbuntu-1204
r WIN2K3-32-bit-ECOLLEGEQA.NET-VLAN 248
r WIN2K3-32-bit-Legacy-ECOLLE G EQA. NE T-VLAN 248
r WIN2K3-32-bjt-SSL•ECQLLEGEQANET-VLAN 248
r WIN2K3-32Next-ECOLLEGEQA.NET-VLAN 248
r WIN2K3-64-bit-ECOLLEGEQA.NET-VLAN 248
( WIN2K8-R2-ECOLLEGEQA.NET-VLAN248
OK Cancel
šhI

* 1. You will now be prompted to confirm the Template, Customization, and File that you selected. Click "OK" to continue. This is your last chance to cancel out of the script before the VM build process starts.

Machine generated alternative text: Please Coníìrm
Template:
WIN2K8_R2_Standard-v2.5. 1_07-1 5-20 13
Customization: WIN2K8-R2-ECOLLEGEQA . NET-VLAN248
DNS: 10.52.4.10 10.52.4.20
File: U:\Share\Scripts\NewVMs-TEMPLATE.csv
OK Cancel

* 1. The VM Build process will begin. One machine at a time will be deployed. You will be able to see the name, IP, Template, Customization, Pool, Storage Cluster, Subnet Mask, Gateway, Folder, and DNS information that will be used to deploy the server (See below)

Machine generated alternative text: fr1ware vphere Fcu,erCLI £1 Re[eese 1
IT1.yjjjjto ConneStto ‘vcenterølsc.ecollegeqa..net
Creating UM’
Creating UM wsl5lsc 10.52.249.93 UIN2MOJI2_Standard—v2.5.l_0?—15—2013
WIN2K8—R2—ECOLLEGEQA . NET—ULAN24B R?20—02 NFS—CLUSTEBOÍ 255. 2
.254.0 10.52.240.1 ilindows 10.52.4.10 10.52.4.20
Position IPMode IPAddress DefaultCatewa!í
1 UseStaticiP 10.52.249.93 10.52.240.1
ji

* 1. After each VM is deployed the networking will be configured, and the VM will be started automatically.
  + If your VM that was deployed has not been automatically started you will need to double check the VLAN information in VCenter that has been assigned from your CSV file. If the VLAN in your CSV file does not match any VLANS on the selected VCenter, the script will not start the VM. Assign the VM to the correct VLAN manually, and start the VM.

* 1. You will need to follow the Post-Deployment items to finish deploying the VM's
     + Log into the server with domain credentials after the deployment is complete to run the "VMWare Run Once" commands that are in the customization
     + Deploy AntiVirus
     + Upgrage VMWare Tools (if applicable)
     + Move Computer account to Proper OU in Active Directory

VM Template and Customization Info

Wednesday, September 04, 2013

1:34 PM

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Environment** | **Type** | **Template** | **Customization** | **Post Deployment Info** |
| Staging | WS Server | WIN2K8\_R2\_Standard-v2.5.1\_05-13-2013 | WIN2K8-R2-ECOLLEGEQA.NET-VLAN248 | Click on "OK" Ecollege Logon Security box for Customization to complete |
| Staging | .Next 64 Bit | Template-NEXT-64bit-v5\_05-30-2013 | WIN2K3-64-bit-ECOLLEGEQA.NET-VLAN248 | Login with Domain credentials to complete Run Once commands |
| Staging | .next 32 Bit | Template-32NEXT\_05-15-2013 | WIN2K3-32Next-ECOLLEGEQA.NET-VLAN248 | Login with Domain credentials to complete Run Once commands |
| Staging | SSL Servers | Template-ssl\_05-15-2013 | WIN2K3-32-bit-SSL-ECOLLEGEQA.NET-VLAN248 | Login with Domain credentials to complete Run Once commands |
| Staging | Legacy Web Servers | Template-mars-05-17-2013 | WIN2K3-32-bit-Legacy-ECOLLEGEQA.NET-VLAN248 | Login with Domain credentials to complete Run Once commands |
|  |  |  |  |  |
| Production | WS Server | WIN2K8\_R2\_Standard-v2.5.1\_06-10-2013 | ws-cust-specs | Login with Domain credentials to complete Run Once commands |