

Change VM ip address ...



ICT-Freak 62 posts since

Dec 28, 2006

I am trying to get the change vm ip address (from the PowerCLI faq <http://communities.vmware.com/docs/DOC-4210>) to work but get an error. The error can be found in the attachment.

This is the code:

```
$vmclonespec = New-Object VMware.Vim.VirtualMachineCloneSpec
$vmclonespec.Customization = New-Object VMware.Vim.CustomizationSpec
$vmclonespec.Customization.NicSettingMap = @(New-Object VMware.Vim.CustomizationAdapterMapping)
$vmclonespec.Customization.NicSettingMap[0].Adapter = New-Object VMware.Vim.CustomizationIPSettings
$vmclonespec.Customization.NicSettingMap[0].Adapter.ip = New-Object VMware.Vim.CustomizationFixedIp
$vmclonespec.Customization.NicSettingMap[0].Adapter.Ip.IpAddress = "192.168.123.123"
$vmclonespec.Customization.Identity = New-Object vmware.Vim.CustomizationIdentitySettings
$vmclonespec.Customization.GlobalIPSettings = New-Object VMware.Vim.CustomizationGlobalIPSettings

$vmclonespec.config = New-Object VMware.Vim.VirtualMachineConfigSpec
$vmclonespec.location = New-Object VMware.Vim.VirtualMachineRelocateSpec

$vmclonespec.powerOn = $false
$vmclonespec.template = $false
$name = "Test"

$target = Get-Folder -Name "Lab" | % {Get-View $_.ID}
$vmmor = Get-VM -Name "WXPLAB" | Get-View
$vmmor.CloneVM_Task($target.MoRef,$name, $vmclonespec )
```

Attachments:

-  [spec_identity.PNG](#) (10.6 K)



DougBaer 602 posts since

Oct 20, 2004 1. **Re: Change VM ip address** Jul 4, 2009 11:41 AM

I believe your customization spec is incomplete. I think you need to populate the object a little more fully, but I am not 100% certain what you need to provide to ONLY change the IP address. Your error is being caused by not having the following. From there, I am still following the trail of breadcrumbs left by subsequent error messages 😊

```
$vmcloneSpec.Customization.Identity =
New-Object VMware.Vim.CustomizationSysprep
```

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[DougBaer](#) 602 posts since

Oct 20, 2004 2. **Re: Change VM ip address** Jul 4, 2009 1:07 PM

[↑](#) in response to: [DougBaer](#) It may be helpful to look here

<http://communities.vmware.com/message/1301800#1301800>

for an example of a script that populates the customization spec.



[DougBaer](#) 602 posts since

Oct 20, 2004 3. **Re: Change VM ip address** Jul 4, 2009 2:41 PM

[↑](#) in response to: [DougBaer](#) After much trial and error, I think I have found out how to do it without the need to clone the VM. I don't know if this is useful, but you should be able to construct the same CustomizationSpec and apply it during a CloneVM operation instead of CustomizeVM.

```
#connect to VirtualCenter with
credentials
Connect-VIServer -Server VC_SERVER -User USERNAME -Password
PASSWORD

#VM Variables
$vmpool = "Testing Pool"
$vmname = "TestVM01"
$vmtemplate = "winxpsp3"
$vmfolder = "DB-Provision"
$datastore = "LAB_ESX_Celerra"
$ip = "192.168.0.101"
$subnetmask = "255.255.255.0"
$gateway = "192.168.0.1"
$dns = "192.168.0.20"
$domain = "lab.local"

##
$vm = Get-VM $name
$cg = New-Object VMware.Vim.CustomizationGlobalIPSettings
$cg.DnsServerList = $dns
$cg.DnsSuffixList = $domain

$cfi = New-Object VMware.Vim.CustomizationFixedIp
$cfi.IpAddress = $ip

$cis = New-Object VMware.Vim.CustomizationIPSettings
$cis.DnsDomain = $domain
$cis.DnsServerList = $dns
$cis.Ip = $cfi
$cis.Gateway = $gateway
$cis.SubnetMask = $subnetmask

$cm = New-Object VMware.Vim.CustomizationAdapterMapping
$cm.Adapter = $cis
```

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```
$customspec = New-Object VMware.Vim.CustomizationSpec
$customspec.GlobalIPSettings = $cg

$cust_name = New-Object VMware.Vim.CustomizationFixedName
$cust_name.Name = $vmname

#Windows
$cust_sysprep = New-Object VMware.Vim.CustomizationSysPrep
$cust_sysprep.GuiUnattended = New-Object
VMware.Vim.CustomizationGuiUnattended
$cust_sysprep.GuiUnattended.autoLogon = $true
$cust_sysprep.GuiUnattended.autoLogonCount = "1"

$cust_sysprep.GuiUnattended.Password = New-Object
VMware.Vim.CustomizationPassword
$cust_sysprep.GuiUnattended.Password.plainText = "True"
$cust_sysprep.GuiUnattended.Password.value = "password"

$cust_sysprep.UserData = New-Object
VMware.Vim.CustomizationUserData
$cust_sysprep.UserData.orgName = "Testing"
$cust_sysprep.UserData.fullName = "Testing"
$cust_sysprep.UserData.ProdID = "YOUR PRODUCT KEY HERE"

$cust_sysprep.UserData.ComputerName = New-Object
VMware.Vim.CustomizationFixedName
$cust_sysprep.UserData.ComputerName.name = $vmname

$cust_sysprep.Identification = New-Object
VMware.Vim.CustomizationIdentification
$cust_sysprep.Identification.JoinWorkgroup = "WORKGROUP"

#$cust_sysprep.Options = New-Object
VMware.Vim.CustomizationWinOptions
#$cust_sysprep.Options.changeSID = 0

$customspec.Identity = $cust_sysprep
$customspec.NicSettingMap = $cm


$vmv = Get-View $vm
$vmv.CustomizeVM($customspec)
```

Message was edited by: DougBaer -- I failed to mention that CustomizeVM only works when the VM is PoweredOff!



[ICT-Freak](#) 62 posts since

Dec 28, 2006 4. **Re: Change VM ip address** Jul 4, 2009 3:20 PM

 in response to: [DougBaer](#)

Thanks for you reply. Going to test it next Monday.

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Have a great weekend 🤗



[bartvp](#) 1 posts since

Aug 21, 2007 5. **Re: Change VM ip address** Sep 8, 2009 2:32 AM

👤 in response to: [DougBaer](#)

Hi Dougbaer,

Did you test your code on VI3 or on vSphere environment?

Don't manage to get it working, do I miss something?

I'm dealing with a SRM project and I have to set my IP address with a script (althoug SRM has an other solution, I know)

My VM is turned of in this phase.

Code starts but get an error back :Exception calling "CustomizeVM" with "1" argument(s): "Customization failed."

All idea are welcome

Thanks

Christof

Script i'm testing:

Modified script (two lines (bold))

#VM Variables

#\$vmpool = "Testing Pool"

\$vmname = "w2k3-tst-srv07"

#\$vmtemplate = "winxpsp3"

#\$vmfolder = "DB-Provision"

#\$datastore = "LAB_ESX_Celerra"

\$ip = "192.168.0.101"

\$subnetmask = "255.255.255.0"

\$gateway = "192.168.0.1"

\$dns = "192.168.0.20"

\$domain = "lab.local"

##

\$vm = Get-VM \$name

\$cg = New-Object VMware.Vim.CustomizationGlobalIPSettings

\$cg.DnsServerList = \$dns

\$cg.DnsSuffixList = \$domain

\$cfi = New-Object VMware.Vim.CustomizationFixedIp

\$cfi.IpAddress = \$ip

\$cis = New-Object VMware.Vim.CustomizationIPSettings

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```
$cis.DnsDomain = $domain
$cis.DnsServerList = $dns
$cis.Ip = $cfi
$cis.Gateway = $gateway
$cis.SubnetMask = $subnetmask

$cm = New-Object VMware.Vim.CustomizationAdapterMapping
$cm.Adapter = $cis

$customspec = New-Object VMware.Vim.CustomizationSpec
$customspec.GlobalIPSettings = $cg

$cust_name = New-Object VMware.Vim.CustomizationFixedName
$cust_name.Name = $vmname

#Windows

$cust_sysprep = New-Object VMware.Vim.CustomizationSysPrep
$cust_sysprep.GuiUnattended = New-Object VMware.Vim.CustomizationGuiUnattended
$cust_sysprep.GuiUnattended.autoLogon = $true
$cust_sysprep.GuiUnattended.autoLogonCount = "1"

$cust_sysprep.GuiUnattended.Password = New-Object VMware.Vim.CustomizationPassword
$cust_sysprep.GuiUnattended.Password.plainText = "True"
$cust_sysprep.GuiUnattended.Password.value = "password"

$cust_sysprep.UserData = New-Object VMware.Vim.CustomizationUserData
$cust_sysprep.UserData.orgName = "Testing"
$cust_sysprep.UserData.fullName = "Testing"

<code>#$cust_sysprep.UserData.ProdID = "YOUR PRODUCT KEY
HERE"</code>*$cust_sysprep.UserData.ProductId= "xxxxx-xxxxx-xxxxx-xxxxx-xxxxx"*
$cust_sysprep.UserData.ComputerName = New-Object VMware.Vim.CustomizationFixedName
$cust_sysprep.UserData.ComputerName.name = $vmname

$cust_sysprep.Identification = New-Object VMware.Vim.CustomizationIdentification
$cust_sysprep.Identification.JoinWorkgroup = "WORKGROUP"

#$cust_sysprep.Options = New-Object VMware.Vim.CustomizationWinOptions
#$cust_sysprep.Options.changeSID = 0

$customspec.Identity = $cust_sysprep
$customspec.NicSettingMap = $cm

$vmv = Get-View $vm.Id
#$vmv = Get-View $vm
$vmv.CustomizeVM($customspec) Attachments:
```


Change VM ip address ...

-  error.jpg (6.6 K)



[DougBaer](#) 602 posts since

Oct 20, 2004 6. **Re: Change VM ip address** Sep 8, 2009 7:26 AM

 in response to: [bartvp](#) I was using vSphere all the way. Did you enter your product key in the customization spec? Note that this example only works with Windows VMs, and I was using a Windows 2003 OS.

To me, this is a rather ugly to do it. I would look at using something like Invoke-VMscript from PowerCLI to change the IP address while the VM is online:

```
$vm = Get-VM myVM
$gc = Get-Credential 'administrator'
$hc = Get-Credential 'root'
$script = "ipconfig /all"

#Change to static IP address
$script = @"
`$config = gwmi Win32_NetworkAdapterConfiguration
`$adapter = `$config | where { `$_ .IPEnabled -eq 'true' }
`$adapter.EnableStatic('172.16.254.51','255.255.255.0')
`$adapter.SetGateways('172.16.254.1')
"@
Invoke-VMScript -vm $vm -ScriptText $script -hostcredential $hc
-guestcredential $gc


#Revert all adapters to DHCP
#$script = @"
#`$config = gwmi Win32_NetworkAdapterConfiguration
#`$adapter = `$config | where { `$_ .IPEnabled -eq 'true' }
#`$adapter.EnableDHCP()
#"@
#Invoke-VMScript -vm $vm -ScriptText $script -hostcredential $hc
-guestcredential $gc
```

You can get some additional information [here](#)



[ugauchr](#) 6 posts since

Jan 10, 2007 7. **Re: Change VM ip address** Sep 9, 2009 4:06 AM

 in response to: [DougBaer](#)

Hi DougBaer,

The problem had nothing to do with vSphere or VI3.5, the posted code apperantly missed a mandatory sysprep field (in my situation, anyway).

I had to add these lines:

```
$cust_sysprep.LicenseFilePrintData = New-Object VMware.Vim.CustomizationLicenseFilePrintData
$cust_sysprep.LicenseFilePrintData.AutoMode = "perseat"
```

Thanks any way for the great code !!

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Tested it out and works fine except for the part that it plays with the domain/workgroup, where I'm only interested in changing IP.

So I follow you advise and go for launching a Powershell script in the VM that does the job

Tx

Christof

The slightly modified code:

```
$vm = Get-VM $name
$cg = New-Object VMware.Vim.CustomizationGlobalIPSettings
$cg.DnsServerList = $dns
$cg.DnsSuffixList = $domain
$cfi = New-Object VMware.Vim.CustomizationFixedIp
$cfi.IpAddress = $ip
$scis = New-Object VMware.Vim.CustomizationIPSettings
$scis.DnsDomain = $domain
$scis.DnsServerList = $dns
$scis.Ip = $cfi
$scis.Gateway = $gateway
$scis.SubnetMask = $subnetmask
$cm = New-Object VMware.Vim.CustomizationAdapterMapping
$cm.Adapter = $scis
$customspec = New-Object VMware.Vim.CustomizationSpec
$customspec.GlobalIPSettings = $cg
$cust_name = New-Object VMware.Vim.CustomizationFixedName
$cust_name.Name = $vmname
#Windows
$cust_sysprep = New-Object VMware.Vim.CustomizationSysPrep
$cust_sysprep.GuiUnattended = New-Object VMware.Vim.CustomizationGuiUnattended
#$cust_sysprep.GuiUnattended.autoLogon = $true
#$cust_sysprep.GuiUnattended.autoLogonCount = "1"
#$cust_sysprep.GuiUnattended.Password = New-Object VMware.Vim.CustomizationPassword
#$cust_sysprep.GuiUnattended.Password.plainText = "True"
#$cust_sysprep.GuiUnattended.Password.value = "password"
#
$cust_sysprep.UserData = New-Object VMware.Vim.CustomizationUserData
$cust_sysprep.UserData.orgName = "Testing"
$cust_sysprep.UserData.fullName = "Testing"
#
$cust_sysprep.UserData.ProductId= "xxxxx-xxxxx-xxxxx-xxxxx-xxxxx"
```

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```
$cust_sysprep.LicenseFilePrintData = New-Object VMware.Vim.CustomizationLicenseFilePrintData
```

```
$cust_sysprep.LicenseFilePrintData.AutoMode = "perseat"
```

```
$cust_sysprep.UserData.ComputerName = New-Object VMware.Vim.CustomizationFixedName
```

```
$cust_sysprep.UserData.ComputerName.name = $vmname
```

```
#
```

```
$cust_sysprep.Identification = New-Object VMware.Vim.CustomizationIdentification
```

```
$cust_sysprep.Identification.JoinWorkgroup = "WORKGROUP"
```

```
#$cust_sysprep.Options = New-Object VMware.Vim.CustomizationWinOptions
```

```
#$cust_sysprep.Options.changeSID = 0
```

```
$customspec.Identity = $cust_sysprep
```

```
$customspec.NicSettingMap = $cm
```

```
$vmv = Get-View $vm.Id
```

```
#$vmv = Get-View $vm
```

```
$vmv.CustomizeVM($customspec)
```



[DougBaer](#) 602 posts since

Oct 20, 2004 8. **Re: Change VM ip address** Sep 9, 2009 7:00 AM

in response to: [ugauchr](#) Thanks for the update. I feel your pain -- I know how much 'fun' it was to strip away the pieces of the Customization Spec to get to just the IP address part.

I wonder if the requirements have something to do with the version of sysprep that gets kicked off, since I'm pretty sure I didn't have to set the AutoMode parameter.