

NicChanger

Setup and how to use it

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Innhold

1.0 Intro	3
2.1 Create Scheduled tasks	3
2.2 Scheduled Task 1: Save IP Config (GetIPConfig.ps1)	4
2.2.1 Save IP Config (GetIPConfig.ps1) : General	4
2.2.2 Save IP Config (GetIPConfig.ps1) : Triggers	4
2.2.3 Save IP Config (GetIPConfig.ps1) : Actions -> New Action	5
2.3 Scheduled Task 2: Set IP Config (SetIPConfig.ps1)	6
2.3.1 Set IP Config (SetIPConfig.ps1) : General	6
2.3.2 Set IP Config (SetIPConfig.ps1) : Triggers	6
2.3.3 Set IP Config (SetIPConfig.ps1) : Actions	7
2.4 Create a Copy file GPO	8
2.5 Using the powerCLI scripts	9

1.0 Intro

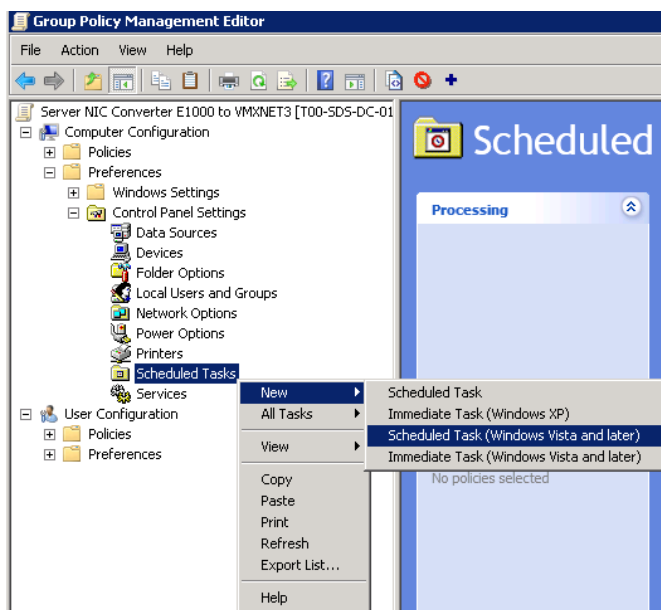
This guide should help you with the following:

- Create the required GPOs with the necessary Scheduled Tasks and script file copy.

2.1 Create Scheduled tasks

First, open up gpmmc.msc. Create a new GPO and link it to your server OU. Then navigate to Computer Configuration -> Preferences -> Control Panel Settings -> Scheduled Tasks -> New -> Scheduled Task (Windows Vista and later)

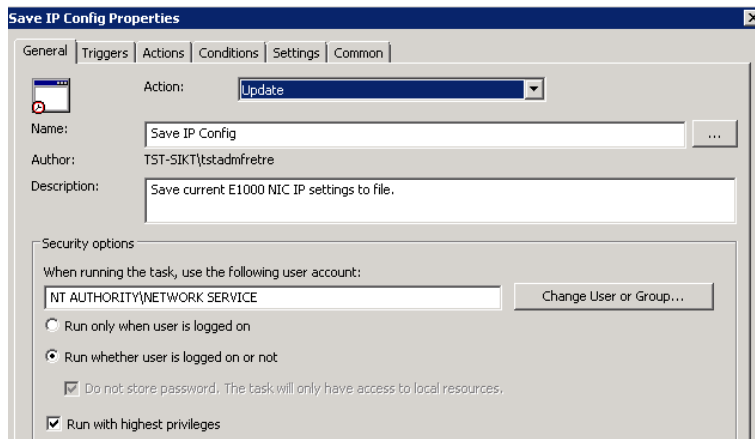
We will now create two tasks. One that runs GetIPConfig.ps1, and another that runs SetIPConfig.ps1.



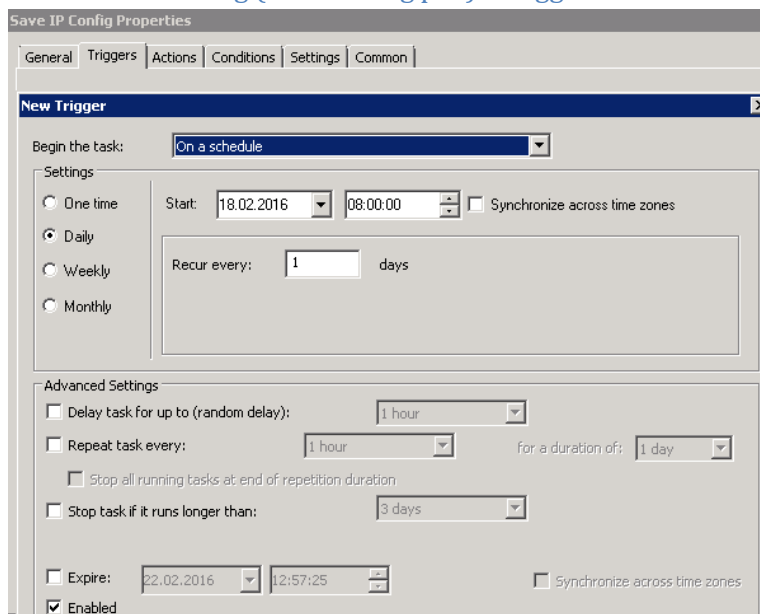
2.2 Scheduled Task 1: Save IP Config (GetIPConfig.ps1)

This script will run once a day. It will check if the current VM his configured with a E1000 adapter, if that's the case it will save the current IP configuration to C:\%MACHINENAME%\IPSettings.csv. If it does not have an E1000 adapter, it will do nothing.

2.2.1 Save IP Config (GetIPConfig.ps1) : General



2.2.2 Save IP Config (GetIPConfig.ps1) : Triggers



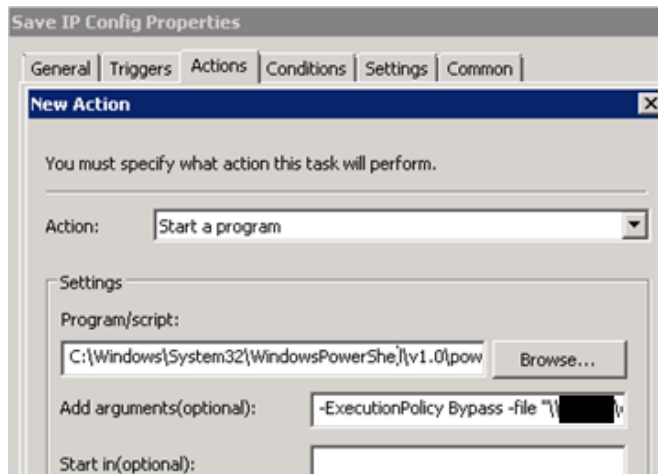
2.2.3 Save IP Config (GetIPConfig.ps1) : Actions -> New Action

Program/script:

C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe

Add arguments:

-ExecutionPolicy Bypass -file "<YourLocation>\NicChanger\Windows\GetIPConfig.ps1"



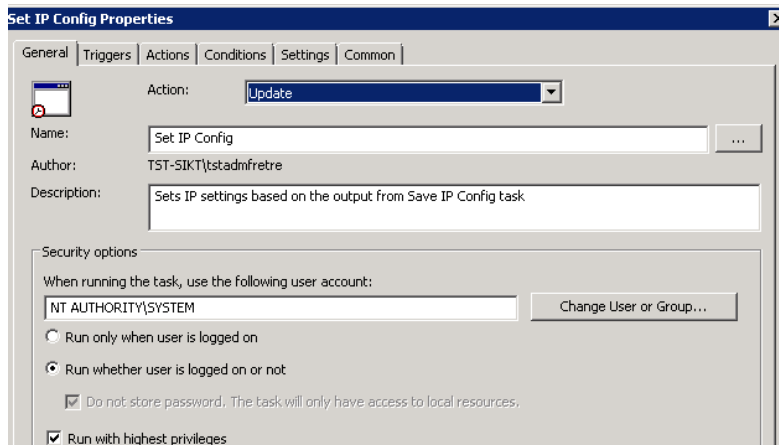
Note: You could host this file on a network share. The VM should have network access when it runs this script anyway.

2.3 Scheduled Task 2: Set IP Config (SetIPConfig.ps1)

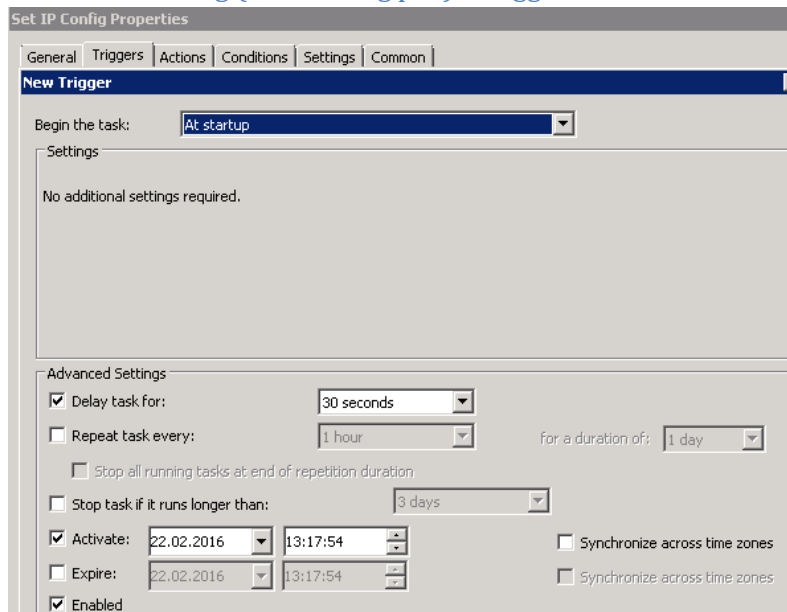
This script will run on windows startup. It checks if the current network adapter is VMXNET 3, and if the output file from Save IP Config (GetIPConfig.ps1) exists under C:\%MACHINENAME%\IPSettings.csv

If the file does not exist, then it will do nothing. If the network adapter is E1000 and the file exist, it will output a file named NIC_IS_E1000 in the C:\%MACHINENAME%\ folder and do nothing else.

2.3.1 Set IP Config (SetIPConfig.ps1) : General



2.3.2 Set IP Config (SetIPConfig.ps1) : Triggers



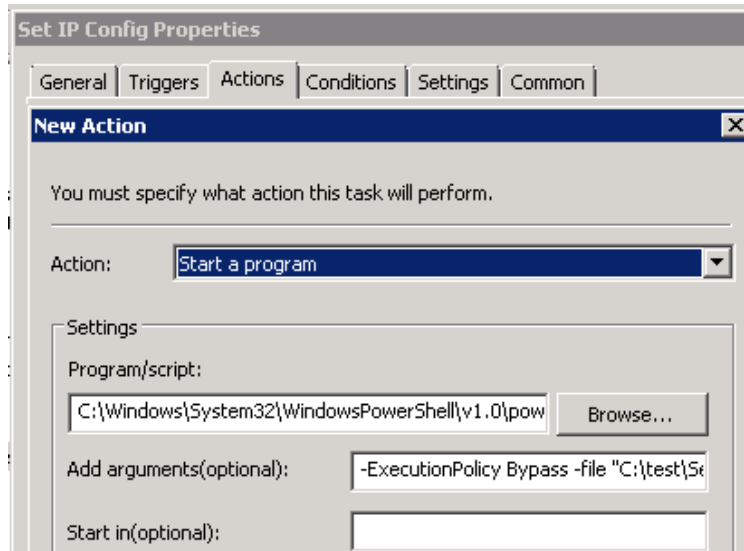
2.3.3 Set IP Config (SetIPConfig.ps1) : Actions

Program/script:

C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe

Add arguments:

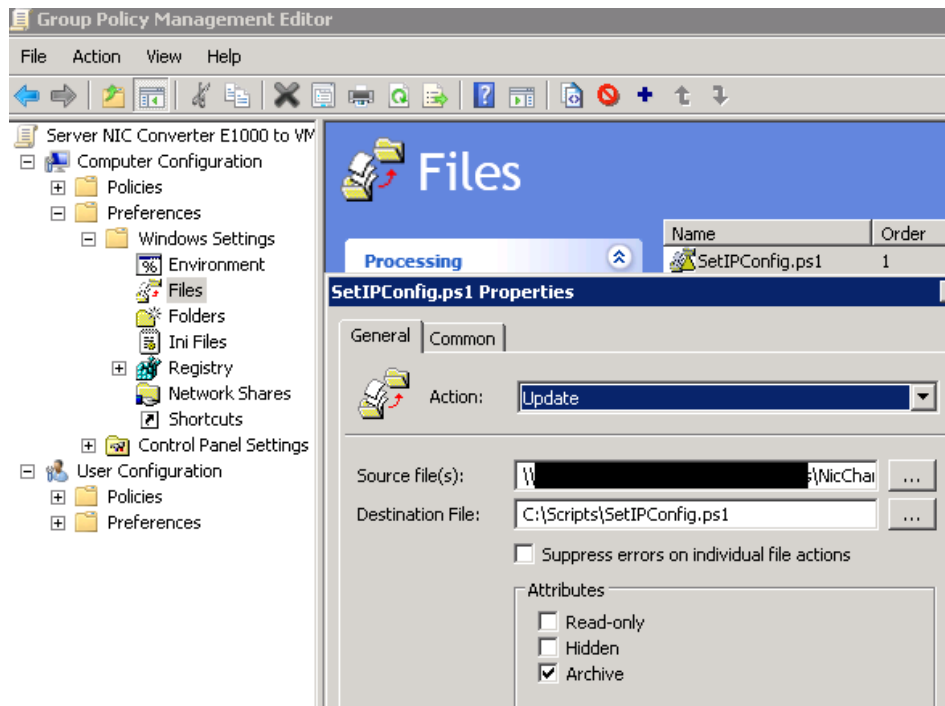
-ExecutionPolicy Bypass -file "C:\Scripts\NicChanger\Windows\SetIPConfig.ps1"



Note: You have to save this file locally, the VM will not have network access to any file shares when it runs this task after the NIC change and reboots! Make a GPO that copies SetIPConfig.ps1 to all the servers locally.

2.4 Create a Copy file GPO

Handy if you don't want to copy the SetIPConfig.ps1 script manually to every computer that you want to change the network adapter on. Add the source file on a network share, then set the destination folder to c:\Scripts\SetIPConfig.ps1. The GPO will create the Script folder if it doesn't already exist.



2.5 Using the powerCLI scripts

Connect to your vcenter by starting PowerCLI, then using the command Connect-VIServer <YourVcenterAddress>

2.5.1 Get-VMs.ps1

Run Get-VMs.ps1 to dump all the current VMs into a file. Edit the script to output it where you want it. Just remember, if you change the destination file you also need to change the source file in Get-OSandPowerstate.ps1

Default: \$FilePath = "c:\tools\Network_Interface.csv"

2.5.2 Get-OSandPowerstate.ps1

In this script you can add rules to only select servers you want to change the network adapters on. It will output compatible VMs to a file. The rule setting is to only select Windows Server 2008 and up.

Default:

Source: \$FilePath = "c:\tools\Network_Interface.csv"

Destination: \$FilePathOutput = "c:\tools\Network_Interface_Sorted.csv"

2.5.3 Change-NIC.ps1

This script will do the network adapter commit to vCenter, and change all the adapters on the VMs it finds inside "c:\tools\Network_Interface_Sorted.csv"

You can edit the "c:\tools\Network_Interface_Sorted.csv" file before running the Change-NIC.ps1 script. You can remove the VMs you don't want to do the change on. You could also remove all but a handful VMs to do tests.

Note: The script will not do anything to VMs which is in a "poweredOff" state.

The reason for this is because [Save IP Config \(GetIPConfig.ps1\)](#) is only run when it powered on. So if a VM is not currently powered on we do not know if the Windows scripts have done their job.