GENESYS

SIP Voicemail HA Deployment Guide

Creating Virtual IP control scripts (Windows)

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Start

1. On the primary VM Server, create a batch file that is named SC_VIP_UP.BAT, and enter the following commands into the file:

[+] Commands for SC_VIP_UP.BAT

```
@echo off
rem set the following parameter corresponding to your machine configuration
set VirtualIP=<Virtual IP of the Machine>
rem for example VirtualIP=172.24.133.254
set vipMask=<Subnet mask of the Machine>
rem for example vipMask=255.255.255.0
set VirtualInterface=<Name of existing network Interface in which VIP will be
created>
rem for example VirtualInterface="Local Area Connection"
set startCount= 0
set EndCount= 20
rem set the path in which log files will be stored
set Logpath= <Specify the path to log files>
rem for example Logpath= C:\Solution_HA\Logs

echo ******************** SC_VIP_UP_start **********************
>> %Logpath%\Takeover_On.log
echo %date% >> %Logpath%\Takeover_On.log
echo %time% >> %Logpath%\Takeover_On.log
echo. >> %Logpath%\Takeover_On.log
rem check if Virtual IP released on paired host and below loop will check up to 20
counts

:start
if %startCount% GTR %EndCount% GOTO end
        echo %startCount%
        cscript.exe ping.vbs %VirtualIP% //Nologo >> %Logpath%\Takeover_On.log
        if not errorlevel 1 goto ready
        echo Looping till VIP disable in backup host >> %Logpath%\Takeover_On.log
        set /a startCount+=1
        timeout 1
        goto start

:end
echo. >> %Logpath%\Takeover_On.log
echo VIP is already enabled either in the same host or the paired host
>> %Logpath%\Takeover_On.log
goto done
exit
:ready
rem Add VirtualIP
netsh interface ip delete arpcache
netsh interface ip add address name=%VirtualInterface% addr=%VirtualIP%
mask=%vipMask% >> %Logpath%\Takeover_On.log
rem check if VirtualIP added succesefully if not do it again
```

```
cscript.exe check_ip.vbs localhost %VirtualIP% //Nologo >> %Logpath%\Takeover_On.log
if errorlevel 1 goto done

netsh interface ip delete address name=%VirtualInterface% addr=%VirtualIP%
>> %Logpath%\Takeover_On.log
netsh interface ip add address name=%VirtualInterface% addr=%VirtualIP%
mask=%vipMask% >> %Logpath%\Takeover_On.log
if errorlevel 1 echo %VirtualIP% not added to %VirtualInterface%
>> %Logpath%\Takeover_On.log

:done
echo. >> %Logpath%\Takeover_On.log
echo ******************** SC_VIP_UP_End **********************
>> %Logpath%\Takeover_On.log
```

2. In the batch file, replace the variables indicated by angle brackets with appropriate values.

3. On the primary VM Server, create a batch file that is named SC_VIP_DOWN.BAT, and enter the following commands into the file:

[+] Commands for SC_VIP_DOWN.BAT

```
@echo off
rem set the following parameter corresponding to your machine configuration
set VirtualIP=<Virtual IP of the Machine>
rem for example VirtualIP=172.24.133.254
set VirtualInterface=<Name of existing network Interface in which VIP will be
created>
rem for example VirtualInterface="Local Area Connection"
rem set the path in which log files will be stored
set Logpath= <Specify the path to log files>
rem for example Logpath= C:\Solution_HA\Logs

echo ******************** SC_VIP_DOWN_Start **********************
>> %Logpath%\Takeover_Off.log
echo %date% >> %Logpath%\Takeover_Off.log
echo %time% >> %Logpath%\Takeover_Off.log
netsh interface ip delete address name=%VirtualInterface% addr=%VirtualIP%
>> %Logpath%\Takeover_Off.log
netsh interface ip delete arpcache
Timeout 10
cscript.exe ping.vbs %VirtualIP% //Nologo >> %Logpath%\Takeover_Off.log
echo %date% >> %Logpath%\Takeover_Off.log
echo %time% >> %Logpath%\Takeover_Off.log
echo ******************** SC_VIP_DOWN_End **********************
>> %Logpath%\Takeover_Off.log
```

4. In the batch file, replace the variables indicated by angle brackets with appropriate values.

5. Add the SC_VIP_DOWN script as a task in Task Scheduler and schedule it to execute when the system starts. This disables the VIP by default when the system starts and according to the mode (Primary/ Backup) of the application, the VIP will be enabled or disabled by the alarm reaction scripts.

6. Copy the MLCMD utility files (mlcmd.exe and mlcmd.exe.manifest files) that are installed with SCS onto the VM Server.

7. On the primary VM Server, create an accessory script that is named Ping.vbs, and enter the following

commands into the script:

[+] Commands for Ping.vbs

```
rem ping host and return 1 if ping successful 0 if not
On Error Resume Next

if WScript.Arguments.Count > 0 then
    strTarget = WScript.Arguments(0)
    Set objShell = CreateObject("WScript.Shell")
    Set objExec = objShell.Exec("ping -n 2 -w 1000 " & strTarget)
    strPingResults = LCase(objExec.StdOut.ReadAll)
    If InStr(strPingResults, "reply from") Then
      WScript.Echo strTarget & "responded to ping."
      wscript.Quit 1
    Else
      WScript.Echo strTarget & "did not respond to ping."
      wscript.Quit 0
    End If
Else
    WScript.Echo "target is not specified."
    wscript.Quit -1
End If
```

8. On the primary VM Server, create an accessory script that is named Check_ip.vbs, and enter the following commands into the script:

[+] Commands for Check_ip.vbs

```
rem check if IP address (arg0 ) can be found on host (arg1 )

On Error Resume Next

if WScript.Arguments.Count > 0 then
    strComputer = WScript.Arguments(0)
    targetIPAddress = WScript.Arguments(1)
    Set objWMIService = GetObject("winmgmts:" &
"{impersonationLevel=impersonate}!\\" & strComputer & "\root\cimv2")
    Set colNicConfigs = objWMIService.ExecQuery ("SELECT * FROM
Win32_NetworkAdapterConfiguration WHERE IPEnabled = True")

  WScript.Echo "Computer Name: " & strComputer & " ip " & targetIPAddress

  For Each objNicConfig In colNicConfigs

  For Each strIPAddress In objNicConfig.IPAddress
        If InStr(strIPAddress, targetIPAddress) Then
      WScript.Echo targetIPAddress & " is found on " & objNicConfig.Description
        wscript.Quit 1
    End If
   Next
  Next
    WScript.Echo targetIPAddress & "not found."
    wscript.Quit 0
Else
    WScript.Echo "target not specified."
    wscript.Quit -1
End If
```

9. Place the accessory scripts `Ping.vbs` and `Check_ip.vbs` in the same directory as the `SC_VIP_UP.BAT` and `SC_VIP_DOWN.BAT` files.

10. Repeat the steps in this procedure to create the scripts on the backup VM Server.

End

Next Steps

Testing control scripts OR Back to Task Table