**Introduction**

This is a PowerShell script specifically made to install the Carbon Black Sensor on remote machines silently, in a bulk fashion. This script can be used if there are issues with pushing the sensor installation through GPO and/or SCCM. This script, along with the PSEXEC utility made by Mark Russinovich and can be found at:

<https://technet.microsoft.com/en-us/sysinternals/bb896649>

Thanks to Mark Russinovich for making the Sysinternals suite and PSEXEC.EXE which makes this script and the ability to silently install the sensor without much trouble, possible.

**Minimum Requirements**

-> Must be in a Windows Environment, machines must have at the minimum Windows 7 and PowerShell 2.0

(Most machines with Windows 7 are at default PowerShell Version 2.0)

-> Must have Workstation Administrator privileges to run this script

-> Basics of launching a script or program using PowerShell or command line.

-> Your Enterprise must be using CarbonBlackSensor, or wishes to use it (and maybe in POC mode),

and the necessary installer folder will be provided by your vendor (Carbon Black).

**Setup Instructions**

1) Create a C:\Temp directory if it already doesn't exist

2) Place the following files and folders into your C:\Temp directory:

A) PSEXEC.EXE utility, can be downloaded from here and place in your C:\Temp folder for this Script: <https://technet.microsoft.com/en-us/sysinternals/bb896649>

After Downloading, you can place PSEXEC.exe in your C:\Temp folder, along with other files.

B) hostnames.txt file, place in your C:\Temp folder, and add the hostnames (or IP addresses, since PSEXEC works with IPs as well) of the remote machines that you would wish to install the sensor on.

C) CarbonBlackSensor Installer folder. Ask your vendor to provide you with this (assuming you are using Carbon Black sensor.). This folder MUST have at the very minimum, Settings.INI file and the Carbon Black Executable.

D) BulkInstall-CarbonBlackSensor.ps1 (This script itself). From the C:\Temp directory, you can launch this script by opening PowerShell.exe in elevated privileges (Workstation Admin).

**Running the Script**

1) Go to your C:\Temp folder and find the hostnames.txt file. If it doesn't exist, simply create one by right-clicking in the folder and New > Text Document.

2) Save the document as "hostnames.txt".

3) On each new line of the hostnames.txt document, input the names of the hosts that you want to install the CB sensor on. It’s best to do this first on machines within your own team so you can test and verify that the script and the install worked for you before pushing the installer on user's machines. You can also input IP addresses of remote hosts if hostnames are not available. Just make sure that you input 1 hostname or IP per line and leave no trailing spaces or empty lines at the end.

4) Save and Close the hostnames.txt file.

5) Open Powershell.exe in elevated privileges (Workstation Admin). Right-Click Powershell.exe (this can be on your taskbar or you can search for it in your start menu), "Run As Different User" and enter your Workstation Admin credentials.

6) Once the PowerShell console window is opened with elevated privilege, navigate to:

C:\Temp (Type cd C:\Temp and press Enter)

7) Type "DIR" and press Enter to see the list of files in your C:\Temp directory.

8) Launch the script by typing .\BulkInstall-CarbonBlackSensor.ps1 and then Pressing Enter. You can try hitting the TAB key before you finish typing the file name and PowerShell will do a

"TAB-Completion" for you.

9) Watch the script run on your machine's PowerShell console.

**Troubleshooting/Logging**

A log is created after the script has completed its run. This log file will be placed in the same directory as the script is located. Simply check the log file for any issues and errors. You may get machines that were not ping-able or online at the moment the script was launched, so the script will skip those files and keep track of them and list them at the very end of the script launch.

**Feedback**

Even though I have been scripting for a while, this is the FIRST script that I am putting out into the world through GitHub and I would love to get some feedback on this if you found it useful to you or your organization.