## Agent Based Monitoring in a Remote Device Utilizing a Windows 11 Virtual Machine

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In this Lab I am creating a virtual reality where an "Employee" is working at a workstation/computer/device "remotely." I have created an "Agent" to be a "Local Agent" and installed it on the workstation/computer/device to perform an assessment of vulnerabilities, and observe the results in our Tenable portal. In order to facilitate this in this "virtual reality" I have placed the file "start.txt" on the workstation/computer/device (aka: Virtual Machine) to create a potential vulnerability to find and resolve. This file named "start.txt" will trigger the scan Agent and begin the process of allowing this scan Agent to remove this file "start.txt." We will be able to watch the file be removed from this workstation/computer/device in real time.

## Tools Used:

- Tenable.sc / Nessus
- Microsoft Azure Virtual Machine

In this Lab I have provisioned a Windows 11 Virtual Machine using Microsoft Azure.



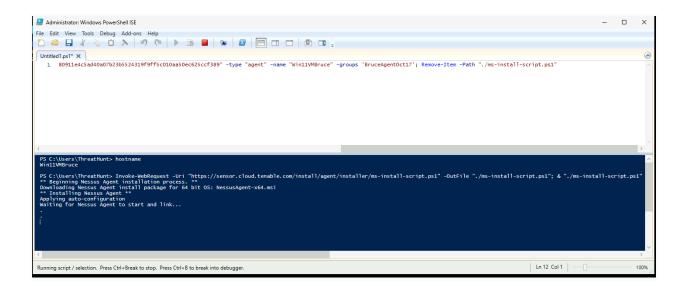
I have also utilized Tenable to create an Agent Based Scan.

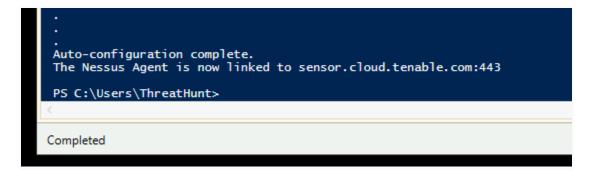


This command is provided within Tenable under: settings -> Sensors -> Nessus Agents -> +Add Nessus Agent, on the right side of the screen I find the Windows command and highlight and copy it. I will open PowerShell ISE on the Virtual Machine and the run the command:

## Invoke-WebRequest -Uri

- "https://sensor.cloud.tenable.com/install/agent/installer/ms-install-script.ps1"
- -OutFile "./ms-install-script.ps1"; & "./ms-install-script.ps1" -key
- "58aab372289ac80911e4c5ad40a07b23b5524319f9ff5c010aa50ec625ccf389"
- -type "agent" -name "Win11VMBruce" -groups 'BruceAgentOct17'; Remove-Item -Path "./ms-install-script.ps1"



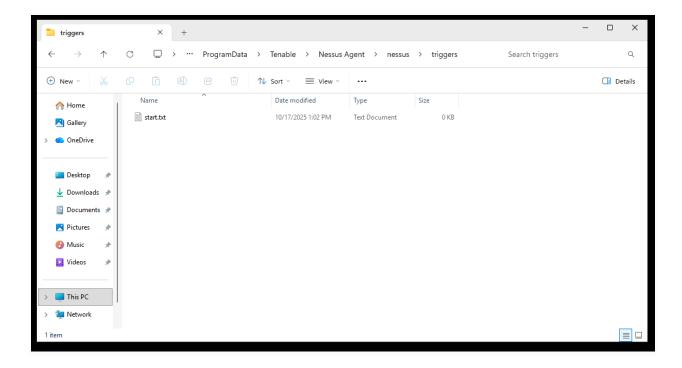


The Agent is now properly installed on my Virtual Machine. Now I will give the Agent the file: "start.txt" to trigger the scan and initiate the process of removing the file "start txt"

I will demonstrate the file path taken and the commands to install the file: "start.txt" here:

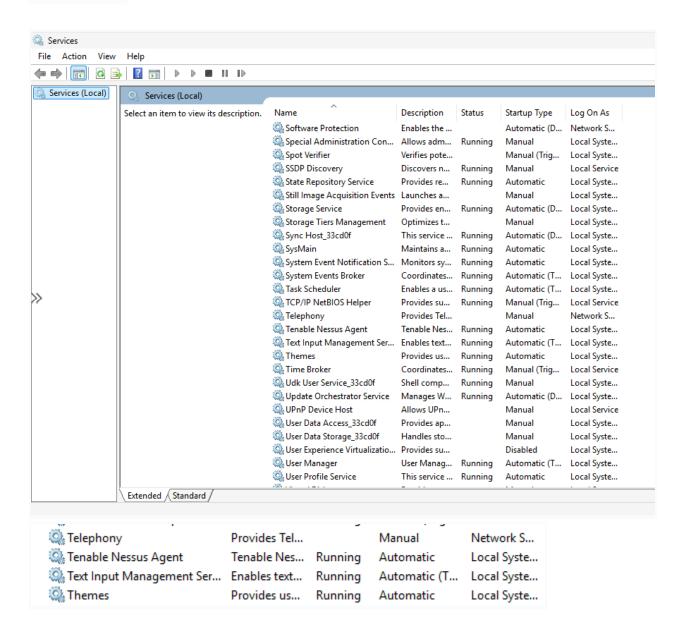
```
PS C:\Users\ThreatHunt> cd \
  PS C:\> cd ProgramData
  PS C:\ProgramData> cd Tenable
  PS C:\ProgramData\Tenable> cd '.\Nessus Agent\'
  PS C:\ProgramData\Tenable\Nessus Agent> cd nessus
  PS C:\ProgramData\Tenable\Nessus Agent\nessus> cd triggers
  PS C:\ProgramData\Tenable\Nessus Agent\nessus\triggers> New-Item -Name start.txt
      Directory: C:\ProgramData\Tenable\Nessus Agent\nessus\triggers
  Mode
                       LastWriteTime
                                              Length Name
                10/17/2025
                             1:02 PM
                                                   0 start.txt
  PS C:\ProgramData\Tenable\Nessus Agent\nessus\triggers>
Temps to drop
                                                       Q Search
 Sunday
```

I have successfully created the file to trigger the scan Agent.



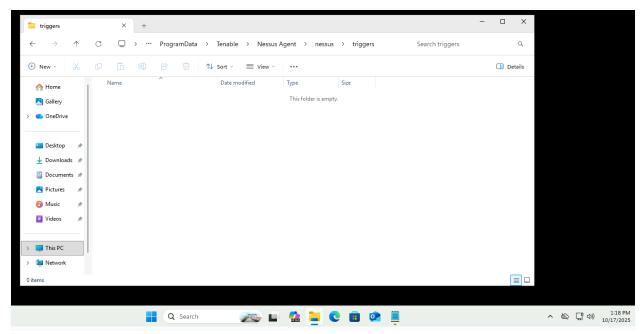
I check to ensure that Tenable is running by opening the Command Line and running:

## services.msc

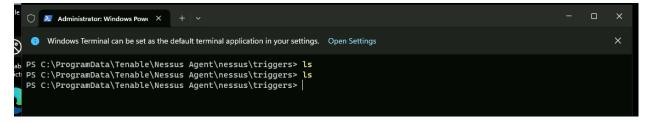


The Tenable Nessus Agent is confirmed in these screenshots as running within our Virtual Machine.

The Agent has been triggered, and the file has been removed:



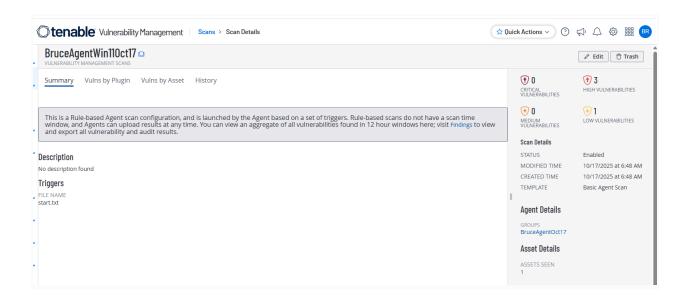
Confirming this in the Command Line:

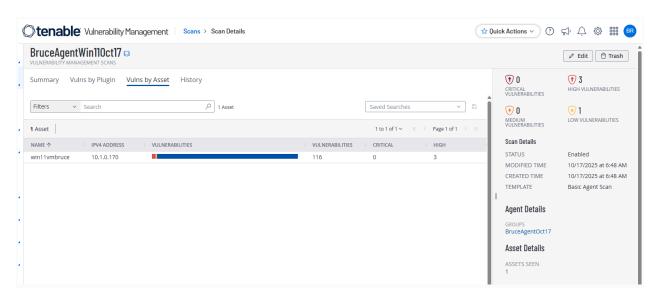


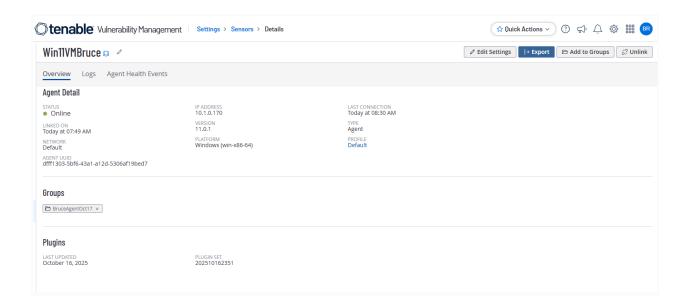
Confirming that Tenable has discovered the file "start.txt" and has performed the necessary actions and discovered "Vulnerabilities by Severity":



In the following screenshots Tenable shows that the Asset has been discovered in the bottom right under Asset Details and also within the "Vulns by Asset" tab:

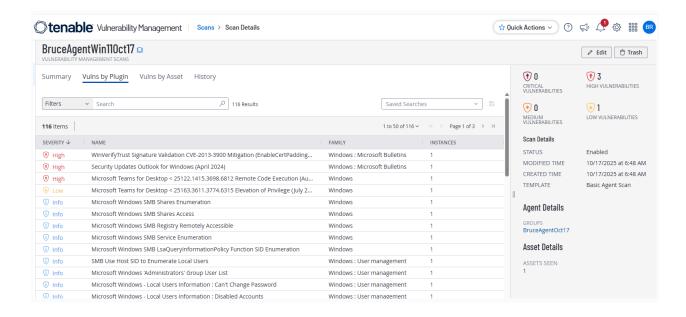






I have included this screenshot of the output for the Agent through Tenable as well.

I have also included this list of vulnerabilities that were found by this Agent:



Concluding this Lab and moving forward, the vulnerabilities can be remediated at this point. I can scan the results of my remediations by adjusting our scan criteria.

This Lab demonstrates my ability to work with Enterprise grade tools, setting up and utilizing real world tools and techniques to successfully create and deploy an Agent in Tenable for use with remote workstations/computers/devices for Vulnerability Management and Remediation.