

# Deploying SecPod Saner Agent Through Microsoft Active Directory







#### Introduction

This article lists instructions to install SecPod Saner agent through Microsoft Active Directory.

#### **Steps Involved in Deploying Agent:**

- 1. Convert SecPod Saner agent in EXE to MSI format
- 2. Create a Software Distribution Point
- 3. Create a Group Policy Object (GPO)
- 4. Upload MSI through GPO
- 5. Deploy Agents on Multiple Endpoints

### **Convert SecPod Saner Agent EXE to MSI Format**

Since the Active Directory allows only MSI format, we need to convert SecPod Saner agent present in EXE to MSI by using any of the EXE to MSI converter. In this article, we use MSI Wrapper.

Steps to convert SecPod Saner agent in EXE format to MSI,

**Step 1**: Download the tool from below link and install, <u>http://www.exemsi.com/download</u>.

**Step 2:** Open installed tool from the Windows menu, specify the EXE file path and MSI path as show in the below image and click next.

🐻 MSI	Wrapper 8.0.21.0 (fre	e version)		_		$\times$
Execu Sele spec	table of the setup executable offy the file name and pa	e you would like to ath of the MSI out	o convert to an M put file.	ISI file. <mark>Al</mark> so,		2
	Setup Executable Inpu C:\Users\Public\SpS Include all files in s Compression of wrapp None	ut File Name: aner-Windows-no setup folder and s ed files: ~	ui-4.1.exe ubfolders			
This co	MSI Output File Name C:\Users\Public\SpS	: aner-Windows-no	ui-4.1.msi			
	nor marks reatures avai	lable in the profes	sional version.			
Go	Pro!	< Back	Next >	Cancel	Help	<b>b</b>



Step 4: Specify the exact version of the agent as 'SecPod Saner 4.1.x.0' click on create new button and click next.

🐻 MSI V	Wrapper 8.0.21.0 (free version)	—		$\times$			
Applica Enter	tion lds the system identification numbers used by Windows Installer.			2			
2	Application Id: SecPod Saner 4.1.0.0		Look u	īÞ			
	{469F1B7D-6D3F-44EE-B36B-D478F0B5A34A}		Create N	lew			
{469F1B7D-6D3F-44EE-B36B-D478F0B5A34A}       Create New         The application id and upgrade code are needed to identify the installation package when upgraded and uninstalled.       If you don't specify an application id then the MSI package will not be able to uninstall the wrapped installation. It is highly recommended that you specify the application id of the executable setup.         Make sure these values are correct. Click the help button for more information.							
Go P	ro! < Back Next > Can	cel	Hel	p			

**Step 5:** Select 'Manufacturer' option as **Manual** and specify the value as 'SecPod Technologies Pvt Ltd' and click next.

👸 MSI	Wrapper 8.0.21.0 (free version)	_		$\times$
Proper Infor	ties mation describing your installation package.			2
	Product Name: SecPod® Saner	Get From: Executable	~	
	Manufacturer: SecPod Technologies Pvt Ltd	Manual	$\sim$	
	Version:	Manda	-	
	4.1.0.0	Executable	~	
	Note: If the version only changes on the 4th position then you get duplicate entries in the list of installed programs.			
	Comments:			
		Executable	. ~	
	Product Icon:			
	base64:AAABAAIAICAAAAAAIACoEAAAJgAAABAQA	Executable	• ~	
	Icon Preview: Export			
This co	olor marks features available in the professional version.			
Go F	<pre>Pro! &lt; Back Next &gt; </pre>	Cancel	Help	1



Step 6: Skip more Properties by clicking next.

Step 7: Specify 'Install Arguments' value as (/S) for silent installation, and then click next followed by build button

🐻 MSI Wrapper 8.0.21.0 (free version) —								
Parameters Fixed parameters for the installer and uninstaller.	Z							
Install Arguments: /S Advanced arguments used	Tips Advanced							
Uninstall Arguments: Advanced arguments used	Tips Advanced							
Specify command line arguments that are always used when running the wrapped installer and uninstaller. Note: When you install the MSI using msiexec.exe you can specify additional arguments.								
This color marks features available in the professional version.								
Go Pro! < Back Next > Cancel	Help							

Step 9: Click Build button to create an agent in MSI format.

🐻 MSI Wrapper 8.0.21.0 (free version)	—		$\times$
Summary Review your selections before building the MSI file.			2
Summary:			
BUILD INFORMATION SUMMARY Source Executable: C:\Users\Public\SpSaner-Windows-noui-4.1.exe Include files: no Compression: None Impersonate: yes Elevate Executable: administrators Per User: auto InstallPrivileges: Elevated Target MSI File: C:\Users\Public\SpSaner-Windows-noui-4.1.msi Product Name: (detect from executable) Product Version: (detect from executable) Manufacturer: SecPod Technologies Pvt Ltd Icon: (detect from executable) Comment: (detect from executable) Help Link: Update Link: About Link: Contact: Install Exit Codes: Install Exit Codes: Install Arguments:			~
	Save	Settings	
This color marks features available in the professional version.			
Go Pro! < Back Build Ca	ncel	Hel	p



### **Create a Shared Distribution Point (SDP)**

The first step in deploying an MSI through GPO is to create a distribution point on the publishing server. This can be done by following the steps below,

- 1. Log on to the server as an Administrator.
- 2. Create a shared **network folder**.
- 3. Set Permissions on this folder to allow access to the distribution package.
- 4. Copy Saner MSI agent file in this shared folder.

# **Create a Group Policy Object (GPO)**

Group Policy is the central component of the Change and Configuration Management features of the Microsoft Windows Server Operation System. Group Policy specifies settings for groups of users and of computers, including registry-based policy settings, security settings, software installation, scripts (computer startup and shutdown, etc.) though Active Directory.

An MSI package is deployed (distributed) through GPO as Group Policy object. To create an object for your package, you can follow these steps,

Step 1: Go to the Windows start button; go to the Programs, select Administrative Tools and then Select Group Policy Management.

Step 2: In the menu bar, Right-Click on your domain (ex: testadmin.net) in the console tree and select new GPO.Step 3: Specify name for a new group policy (ex: Agent). Enter OK button.

R	Group Policy Management
File Action View Windo	w Help - & ×
Group Policy Management Group Policy Management Derset: testadmin.net Domains Domain Contu Domain Contu Sites Group Policy Modelin Group Policy Results	
< III >	



Step 4: New Group Policy is created under the domain.

# Upload MSI file in GPO

A package can be assigned per-user or per-machine. Also, if the package is assigned, it will automatically be installed silently. To assign a package, follow these steps:

Step 1: Right-click on that created group click edit option, it Opens Group Policy Management Editor.

<u>III</u>	Group	Policy M	anageme	nt		-	
File Action View	Window Help						_ & ×
🧇 🌳 🖄 📰 💥 🖸							
Group Policy Manager A Forest: testadmin.n. A Domains testadmin.n. A and testadmin.n. A Agent Def	et           Agent           Scope         Details         Settings           et         Links         Display links in this location:	Delegation	testadmin.net are linked to t	t his GPO:			~
▷ 🗃 Dor ▷ 🍪 Gro ▷ 🎲 WM ▷ 🛅 Star	Enforced Link Enabled Save Report			Enforced No	Link Enabled Yes	Path testadmin.net	
Group Polis     Group Polis	View  New Window from Here					-	
	Delete Rename Refresh	only apply	to the followi	ng groups, use	ers, and computers:		
	Help		e	Properties			
	WMI Filtering This GPO is linked to the fo	llowing WM	l filter:		0		
< III Toggle the Enforced attribut	te for this link			~	Open		

Step 2: Under Computer Configuration, expand Software Settings.

- Step 3: Right-click on Software installation, Click New and Select Package.
- Step 4: Open Browse window, select new MSI installer file in SDP. Click Open.
- Step 5: Choose default policy as Assigned Method, Click OK.





#### **Deploying Agent on Multiple Endpoints**

Every system under Active Directory goes under fresh installation type, with silent mode. When the endpoint starts or restarts, the assigned package will be installed automatically on all the endpoints. After a few minutes we can verify agent installation status by logging into one of the endpoint system and check under Program and features.

G v 🖾 « All Control Pane	el Items 🔸 Programs and Features	- 49	Search Programs and Feature	es 🔎			
Control Panel Home View installed updates Turn Windows features on or off	Uninstall or change a program To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.						
Install a program from the	Name	ublisher	Installed On				
network	<ul> <li>Python 3.4.4</li> <li>SecPod Saner</li> <li>SnakeTail v1.9.3.0</li> </ul>	P S S	ython Software Foundation ecPod Technologies Pvt Ltd nakeNest.com	10/4/2017 10/13/2017 10/13/2017			
	•			Þ			
	Currently installed progra 3 programs installed	ms Total size: 67.7 I	MB				

You could also verify on the Saner Console after login if all the systems have been activated under Manage -> Devices.

4	sanernow				5			Fri Sep 7 7:10:36 PM 🛛 😋	👗 sec	podadmin
۲	Device Groups	Device Table						Scan Now Deployment	Create G	Sroup
8	Unassigned Devices	Host Name	IP Address	MAC Address	Operating System	Saner Enabled	Group Name	Last Seen	1 0	
<b>A</b>	Disabled Devices All Groups	e win-Sbbkdlrrfgk	192.168.2.213 192.168.2.63	00-0C-29-5F-ED-97 00-0C-29-D8-8C-88	Microsoft Windows Server 2012 R2 Microsoft Windows 7 v8.1.7800 arc	4.1-0.0-noui-1-exe-x88 4.1-0.0-noui-1-exe-x88	bk-server2012r2-cm windows 7	2018-09-07.12:08:50(UTC+00.00) 2018-09-07.12:02:31(UTC+00.00)		~
<i>₽</i> ©	BK-Mac-Machine sk-win2008-69	web-server	192.168.2.121 192.168.1.49	00-0C-29-04-08-F2 02-00-4C-4F-4F-50	Microsoft Windows 8.1 v8.3.9800 a Microsoft Windows 10 v8.3.17134	4.1-0.0-noui-1-exe-x88 4.1-0.0-noui-1-exe-x88	bk-newtest windows 10	2018-09-07.12:08:38(UTC+00.00) 2018-09-07.12:00:59(UTC+00.00)		•
	pk-win8.1	desktop-d7n1hin	192.168.2.172	00-0C-29-78-4E-F0	Microsoft Windows 10 v6.3.17134	4.1-0.0-noui-1-exe-x88	smitha-rule	2018-09-07.12:07:18(UTC+00.00)	8	φ
	debian	secpod-pc1	192.168.2.210	00-0C-29-64-DB-78	Microsoft Windows 7 Service Pack	4.1-0.0-noui-1-exe-x86	smi-win7-normal	2018-09-07.12:05:32(UTC+00.00)		*
	comp-bk-server2012r2 pk-windows7	smitha-pc	192.188.1.108 192.188.1.58	08-00-27-85-34-3B B0-83-FE-B3-AD-A8	Microsoft Windows 8.1 v8.3.9600 a Microsoft Windows 10 v8.3.17134	4.1-0.0-noui-1-exe-x88 4.1-0.0-noui-1-exe-x88	windows 8.1 AV-Group	2018-09-07.12:08:18(UTC+00.00) 2018-09-07.12:08:32(UTC+00.00)		
	sm3	🗭 localhost	192.168.2.111	00-0C-29-89-98-84	Fedora 28 v4.17.3-200.fc28.x88_64	4.1-0.0-noui-1-rpm-x84	smitha-upgrade-download	2018-09-07.07:42:27(UTC+00.00)		~
	support	sp-smitha-desktop	192.168.1.31	B0-83-FE-B3-AD-B7	Ubuntu 14.04 v4.4.0-124-generic a	4.1-0.0-noui-1-dpkg-x84	smitha-upgrade	2018-09-07.12:08:58(UTC+00.00)		~
	test_jayanth	sp-ubuntu14-x88-ii	192.168.2.59	00-0C-29-C0-8E-F8 08-00-27-01-54-B4	Ubuntu 14.04 v3.13.0-24-generic a Ubuntu 14.04 v3.18.0-30-generic a	4.1-0.0-noui-1-dpkg-x88	bk-nowtestingall	2018-09-07.12:08:23(UTC+00.00) 2018-09-07.12:09:07(UTC+00.00)		-
	sm2	🖞 qa-ubutnu18.04-x88	192.168.2.56	00-0C-29-83-1B-6F	Ubuntu 18.04 v4.4.0-21-generic ar	4.1-0.0-noui-1-dpkg-x88	sharath-test	2018-09-07.07:47:38(UTC+00.00)		-
	custom_group	Showing 1 to 15 of 77 entries					Previ	ous 1 2 3 4 5	6 1	Next



#### **About Us**

SecPod Technologies creates cutting edge products to ensure endpoint security. Founded in 2008 and headquartered in Bangalore with operations in USA, the company provides computer security software for proactively managing risks and threats to endpoint computers.

#### **Contact Us**

Web: <u>www.secpod.com</u> Tel: +91-80-4121 4020 Email: <u>info@secpod.com</u> +1-918-625-3023

© SecPod Technologies

