

## How to deploy the Saner agent through SecPod Saner deployer?

1. Download the **Saner agent** from the **Offline Deployer** option in the **Control Panel**.
2. Deployment tool can be used for device discovery and saner agent installation. SecPod Saner deployer options are as shown in the image below:

```
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#### For Device Discovery ####
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Usage : python run.py --discovery [--light_scan] --network_range=<network_range> --dis_result_csv_file=<nw_discovery.csv> [--get_host_names] --run_env=<Windows|Linux|Darwin>
Eg: python run.py --discovery --network_range=192.168.1.10-100 --dis_result_csv_file=hosts.csv --run_env=Windows
Eg: python run.py --discovery --network_range=192.168.1.* --dis_result_csv_file=hosts.csv --run_env=Linux
Eg: python run.py --discovery --network_range=192.168.1.1/24 --dis_result_csv_file=hosts.csv --get_host_names --run_env=Windows

[*] Supported Valid IP Address Formats Are,
192.168.1.10/24 | 192.168.1.* | 192.168.1.10-20 | 192.168.1.10

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#### For Saner Deployment ####
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Usage : python run.py --deploy_saner --host=<host_ip|hosts.csv> [--delete_host_csv=<true|false>] --user=<username> --pass=<password> [--first_scan_disable] [--agent_activation_disable] [--agent_remove] [--uninstall_pass=<saner_uninstall_pass_if_required>] [--proxy_ip=<proxy_ip>] [--proxy_port=<proxy_port>] [--proxy_user=<proxy_user>] [--proxy_pass=<proxy_pass>] [--ms_eula=<yes|no>] --run_env=<Windows|Linux|Darwin>
Eg: python run.py --deploy_saner --host=192.168.1.10-100 --user=test_user --pass=test_pass --first_scan_disable=true --agent_activate=true --ms_eula=yes --run_env=Windows
Eg: python run.py --deploy_saner --host=hosts.csv --delete_host_csv=true --user=test_user --pass=test_pass --first_scan_disable=true --agent_activate=true --ms_eula=yes --run_env=Windows
Eg: python run.py --deploy_saner --host=192.168.1.100/32 --user=test_user --pass=test_pass --first_scan_disable=true --agent_activate=true --proxy_ip=192.168.1.1 --proxy_port=80 --proxy_user=proxy_user --proxy_pass=proxy_pass --run_env=Linux
Eg: python run.py --deploy_saner --host=hosts.csv --delete_host_csv=false --user=test_user --pass=test_pass --agent_remove --uninstall_pass=saner_uninstall_pass_if_required --proxy_ip=192.168.1.1 --proxy_port=80 --proxy_user=proxy_user --proxy_pass=proxy_pass --ms_eula=yes --run_env=Linux
Eg: python run.py --deploy_saner --host=192.168.1.* --user=domain\test_user --pass=test_pass --first_scan_disable=true --agent_activate=true --proxy_ip=192.168.1.1 --proxy_port=80 --proxy_user=proxy_user --proxy_pass=proxy_pass --ms_eula=yes --run_env=Windows

[*] Supported Valid IP Address Formats Are,
192.168.1.10 | 192.168.1.10/24 | 192.168.1.* | 192.168.1.10-20

[*] NOTE: Put All The Passwords in Double Quotes, eg: --pass="password"

#####
```

**Note:** To deploy Saner agents on Windows, we need to run the deployer script from a Windows system, and to install on Linux/macOS systems we need to run the deployer from Linux/macOS operating systems respectively.

3. To discover devices in the network, run the following command and pass the CSV filename as a command-line argument to the deployer,

### Options:

-discovery	To Run device discovery
-network_range	Network IP Range
-light_scan	Does only ICMP scan (Optional) (Default: full scan)
-dis_result_csv_file	Discovered IPs/Hosts will be stored in this CSV file
-get_host_names	Save hostname instead of host IPs (Optional) (Default: Won't collect hostnames)

-run_env	Running OS: From where this tool is being run (Values: Windows Linux Darwin)
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> *python.exe run.py -discovery options*

```

C:\Work\cloud_deployer_v2>python run.py --discovery
=====
[+] This Tools Works Only on Windows, Linux and Mac Systems.
[+] To Discover Hosts on Linux/Mac OS X Systems, Please Run This Discover Tool From Linux/Mac OS X Systems.
[+] To Discover Hosts on Windows Systems, Please Run This Discover Tool From Windows System.
=====
Usage : python run.py --discovery [--light_scan] --network_range=<network_range> --dis_result_csv_file=<rw_discovery.csv> [--get_host_names] --run_env=<Windows|Linux|Darwin>
Eg: python run.py --discovery --network_range=192.168.1.10-100 --dis_result_csv_file=hosts.csv --run_env=Windows
Eg: python run.py --discovery --network_range=192.168.1.* --dis_result_csv_file=hosts.csv --run_env=Linux
Eg: python run.py --discovery --network_range=192.168.1.1/24 --dis_result_csv_file=hosts.csv --get_host_names --run_env=Windows
[+] Supported Valid IP Address Formats Are,
192.168.1.10/24 | 192.168.1.* | 192.168.1.10-20 | 192.168.1.10
=====

```

> *python.exe run.py -discovery -network\_range=192.168.1.1/24 -dis\_result\_csv\_file=hosts.csv -run\_env=Windows*

```

C:\Work\cloud_deployer_v2>python run.py --discovery --network_range=192.168.1.4 --dis_result_csv_file=hosts.csv --run_env=Windows
=====
[+] This Tools Works Only on Windows, Linux and Mac Systems.
[+] To Discover Hosts on Linux/Mac OS X Systems, Please Run This Discover Tool From Linux/Mac OS X Systems.
[+] To Discover Hosts on Windows Systems, Please Run This Discover Tool From Windows System.
=====
[+] Performing deep scan to check Host (192.168.1.4) alive/reachable or not
[+] Starting ICMP ECHO Scan...
Pinging 192.168.1.4 with 32 bytes of data:
Reply from 192.168.1.4: bytes=32 time<1ms TTL=64
Reply from 192.168.1.4: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.4:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
[+] Host (192.168.1.4) Alive/Reachable
=====

```

4. To deploy the Saner agent on Windows, run the following commands.

-deploy_saner	To deploy Saner agent
-host	Network IP Range OR CSV file (Format: "ip address","username","password") (credentials: optional, if passed from command-line)
-delete_host_csv	To delete/keep host CSV file, NOTE: We advise to delete this file, if credentials are present (Values: true false)
-user	Username
-pass	Password (passwords should be in double Quotes eg: -pass="password")

-first_scan_disable	To disable agent first scan just after the agent installation (Optional) (Default: First scan will be enabled)
-agent_activation_disable	To disable agent activation just after the agent installation (Optional) (Default: Agent activation will be enabled)
-agent_remove	Include to remove saner agent from endpoint (Optional) (Default: Agent will not be removed)
-uninstall_pass	Required if Saner agent uninstallation require password (Optional)
-ms_eula	Accept Microsoft eula to run psexec tool (Values: yes no) (Optional)
-run_env	Running OS: From where this tool is being run (Values: Windows Linux Darwin)(Optional)(Default: Tries to find out automatically)
-proxy_ip	Proxy Server IP (Optional)
-proxy_port	Proxy Server Port (Optional)
-proxy_user	Proxy Username (Optional)
-proxy_pass	Proxy Password (Optional)

> *python.exe run.py -deploy\_saner -host=192.168.2.1-100 -user="Administrator" -pass="password" -ms\_eula=yes -run\_env=Windows*

```

M:\Work\cloud_deployer_v2>python run.py --deploy_saner --host=192.168.2.174 --user=secpod --pass=secpod --ms_eula=yes --run_env=Windows
*****
[+] This Tools Works Only on Windows, Linux and Mac Systems.
[*] To Discover Hosts on Linux/Mac OS X Systems, Please Run This Discover Tool From Linux/Mac OS X Systems.
[*] To Discover Hosts on Windows Systems, Please Run This Discover Tool From Windows System.
*****
[*] Using PsExec.exe From (M:\Work\cloud_deployer_v2\PsExecTool\PsExec.exe) Directory
*****
[+] Credentials Added Successfully
[*] Host (192.168.2.174)
[*] Checking Saner Installed and Running On (192.168.2.174) Host
[*] Saner Not Present On Windows Host (192.168.2.174)
[*] Deploying Saner On Windows Host (192.168.2.174)
[*] Selected Applicable Installer For Deployment
[*] Mounting Network Drive For Copying Files.
[*] Trying to Mount Remote System (192.168.2.174) 'C$' Share Locally to Copy Saner Installer.
[*] Successfully Mounted Remote System (192.168.2.174) 'C$' Share on (A) Drive
[*] Copying Saner Installer To (192.168.2.174) Host
[*] Successfully Disconnected (A:) Network Drive
[*] Copied Saner Installer Successfully To (192.168.2.174) Host
[*] Installing Saner On (192.168.2.174) Host
[*] Cleanup Successful On (192.168.2.174) Host
[*] Checking Saner Installed and Running On (192.168.2.174) Host
[*] Credentials Deleted Successfully
[*] Deploying To Host (192.168.2.174) Successful
*****

```

5. To deploy the saner agent on Linux/macOS, run the following command

```
> python run.py -deploy_saner -host=hosts.csv -user="root" -pass="password"
-delete_host_csv=false -agent_activation_disable -first_scan_disable
```

```
root@sp-oval-release-vm:~/cloud_deployer_v2# python run.py --deploy_saner --host=hosts.csv --user=root --pass=secpod --delete_host_csv=false --agent_activation_disable --first_scan_disable
#####
[*] This Tools Works Only on Windows, Linux and Mac Systems.
[*] To Discover Hosts on Linux/Mac OS X Systems, Please Run This Discover Tool From Linux/Mac OS X Systems.
[*] To Discover Hosts on Windows Systems, Please Run This Discover Tool From Windows System.
#####
#####
[*] Checking Saner Installed and Running On Ubuntu Host (192.168.2.124)
[*] Selected Applicable Installer For Deployment
[*] Saner Not Present On Ubuntu Host (192.168.2.124)
[*] Deploying Saner On Ubuntu Host (192.168.2.124)
[*] Copying Saner Installer To (192.168.2.124) Host
[*] Copied Saner Installer Successfully To (192.168.2.124) Host
[*] Installing Saner On (192.168.2.124) Host
[*] Cleanup Successful On (192.168.2.124) Host
[*] Checking Saner Installed and Running On Ubuntu Host (192.168.2.124)
[*] Deploying To Ubuntu Host (192.168.2.124) Successful (NOT_RUNNING as Saner Activation is disabled)
#####
```

6. If a proxy is enabled, pass proxy details to the deployer script as shown below,

```
-proxy_ip=192.168.1.1 -proxy_port=80 -proxy_user="proxy_user" -proxy_pass="proxy_pass"
```

```
> python run.py -deploy_saner -host=192.168.1.100 -user="root" -pass="password"
-proxy_ip=192.168.1.1 -proxy_port=80 -proxy_user="proxy_user" -proxy_pass="proxy_pass"
```

7. Other deployer tool options,

```
> python run.py -deploy_saner -host=hosts.csv -delete_host_csv=true -run_env=Linux
-first_scan_disable
```

```
> python run.py -deploy_saner -host=hosts.csv -delete_host_csv=true -user=test_user
-pass="test_pass" -run_env=Linux -agent_activation_disable -first_scan_disable
```

```
> python run.py -deploy_saner -host=192.168.2.1-100 -user=domain\test_user -pass="test_pass"
-proxy_ip=192.168.1.1 -proxy_port=80 -proxy_user="proxy_user" -proxy_pass="proxy_pass"
-ms_eula=yes -run_env=Windows
```