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FortiNAC - Agent Release Notes

Version 9.4.0

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FortiNAC 9.4.0 Agent Release Notes

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Overview of Version 9.4.0

Supplemental documentation

The following can be found in Fortinet Document Library under [FortiNAC Release Information](#):

- Release Matrix
- Release Notes (FortiNAC software)
- Upgrade Instructions and Considerations (FortiNAC software)
- CentOS Updates

Version information

These Release Notes contain additional Enhancements for this FortiNAC Agent Version. Unique numbering is used for the various components of the product. The Agent version supplied with this release is listed below.

Agent Version: 9.4.0.93

Included with FortiNAC version: 9.4.0 (to install in lower FortiNAC versions, see [Upgrade Considerations](#)).

Download size

Name	Operating System	File	Size
FortiNAC Dissolvable Agent	Linux (x86_64)	FortiNAC_Dissolvable_Agent.bin	7393 KiB
FortiNAC Dissolvable Agent	Mac-OS-X	FortiNAC Dissolvable Agent.dmg*	6657 KiB
FortiNAC Dissolvable Agent	Windows	FortiNAC Dissolvable Agent.exe*	2947 KiB
FortiNAC Mobile Agent	Android	FortiNAC Mobile Agent.apk	2371 KiB
FortiNAC Mobile Agent (Store)	Android	FortiNAC Mobile Agent (Store)	2371 KiB
FortiNAC Passive Agent	Windows	FortiNAC_Passive_Agent.exe*	2416 KiB
FortiNAC Persistent Agent (deb)	Linux (x86_64)	bni-persistent-agent_5.2.6.69-1.amd64.deb	11195 KiB
FortiNAC Persistent Agent (dmg)	Mac-OS-X	FortiNAC Persistent Agent.dmg*	10869 KiB
FortiNAC Persistent Agent (exe)	Windows	FortiNAC Persistent Agent.exe*	5954 KiB

Name	Operating System	File	Size
FortiNAC Persistent Agent (msi)	Windows	FortiNAC Persistent Agent.msi*	5836 KiB
FortiNAC Persistent Agent (rpm)	linux (x86_64)	bni-persistent-agent-5.2.6.69-1.x86_64.rpm	11203 KiB

*32 bit agent application. Will run on 32 and 64 bit systems.

System Requirements

The following are the requirements for hosts to be able to install the agent:

- 2.0 GHz 64-bit processor, dual core (or two virtual CPUs)
- 4 GB RAM
- 40 MB free hard disk
- Internet access

Compatibility

The chart below lists the versions of FortiNAC and operating systems currently supported and tested with 9.4.0. Other FortiNAC versions and operating systems may work, but are not guaranteed.

Agent	FortiNAC Version	Operating System
Windows Dissolvable Agent Windows Persistent Agent	8.8 and higher	Windows Server 2008, 2008R2, 2012, 2012R2, 2016 Windows 7 Windows 8.1 Windows 10 Windows 11
macOS Dissolvable Agent* macOS Persistent Agent*	8.8 and higher	OS X Mavericks (10.9) OS X Yosemite (10.10) OS X El Capitan (10.11) macOS Sierra (10.12) macOS High Sierra (10.13) Mojave (10.14) macOS Catalina (10.15) Big Sur (11.x) Monterey (12)
iOS Mobile Agent	Not supported	See related KB article 197745 for details.
Linux Dissolvable Agent Linux Persistent Agent	8.8 and higher	Operating System: x86-64 Linux Distribution: Fedora, CentOS, RHEL, Debian, Ubuntu (not supported on 32-bit systems), SLES 11, 12, 15 *compatibility on all distributions is not guaranteed
Android Mobile Agent	8.8 and higher	Android 4.1 and higher

*Macs with M1 processors should run as expected as long as Rosetta is installed. Rosetta is Apple's translation layer to run x86_64 applications on Apple M1 architecture. Note this has not been tested internally.

New Features

There are no new features in FortiNAC Agent Version 9.4.0.

Enhancements and Addressed Issues

Fortinet Agent Packages contain all of the files required by the FortiNAC server for each agent and the latest version of each agent type, such as the Persistent Agent or the Dissolvable Agent. In some cases, agents cannot be distributed directly from FortiNAC, such as the Android Mobile Agent which must be distributed through Play Store. However, those agents do require supporting files on the FortiNAC server.

Note:

- It is recommended that you use the most recent version of the Agent, whenever possible, to take advantage of the latest features and updates to the Agent software.
- Any agent version prior to 3.1.5 is not forward compatible with a certificate signed with SHA2 RSA Encryption. If you have Persistent Agent versions 3.0 - 3.1.4 deployed, do not update to a SHA2 Certificate until the legacy agents are upgraded to a newer version.
- Unless otherwise specified, enhancements apply to all types of agents. These Enhancements are in addition to the Enhancements that are outlined in previous releases. For previous versions, refer to the Release Matrix document in the Resource Center on the Fortinet web site.

ID	Description
759251	Crash in PA GUI on start in Fedora 35.
746180	The laptop of Fujitsu sleeps for a long time after Persistent Agent is installed.
771993	Spurious agent reconnects due to IP changes while the existing connection is still valid.
779150	Agent unable to connect due to leading or trailing whitespace in server names configured in the agent.
778940	Added option to choose "Security-Center" in Windows AV category. This will produce a test result for the product + version detected.

Known Issues

ID	Description
694407	Linux hosts running CrowdStrike Falcon sensor 6.11 and later failing scans.
869958	FortiNAC Persistent Agent version 9.4.0.93 on MacOS stops communicating.
0739990	Android Mobile Agent prompts for server name. For details and workaround see related KB article 195909 .
904608	Agent reconnect timer is not reset on network reconnect.
875595	Kaspersky Endpoint Protection 11.11 and its definitions are not being detected correctly leading to false positive scan failures.
	Currently the Linux Persistent Agent does not have the ability to be updated via the FortiNAC Administration UI.
	Currently the Agent is not supported on Windows 10S and will not run.

Linux Agent Features Not Yet Supported

The following items are not supported by Linux Agent version 3.4 through 9.4.x:

- Ability to Update the Persistent Agent to future versions.
- Ability to configure the Persistent Agent to uninstall at the specified Expiration Date.
- Supplicant EasyConnect.
- System Tray Icon for Desktop Environments (DE's) that are not XEmbed-based. For example, the system tray icon will not be displayed on DE's such as Ubuntu 14.04 with Unity DE and Kubuntu 15.04 with KDE 5.x.

Note: The system tray icon will be displayed on DE's such as Linux Mint 17 with Cinnamon, Fedora 21 with Gnome 2 or Gnome 3, Ubuntu 14.04 with KDE 4.x, Debian 7 with Xfce 4 and Lubuntu 14.04 with LXDE (and others which are XEmbed-based.)

Features No Longer Supported

ID	Description
0731193	Version 5.3: The securityEnabled setting is no longer considered by the Persistent Agent. As of this version, only secure agent communication will be used (regardless of securityEnabled setting).

Upgrade Considerations

Feature	Description
Agents with Security Disabled	<p>As of Persistent Agent version 5.3, there is no option to disable secure agent communications. Agents upgraded from previous versions to 5.3 or greater will communicate over TCP 4568 regardless of the "securityEnabled" Persistent Agent setting.</p> <p>The following must be done prior to upgrading hosts to agent version 5.3:</p> <ul style="list-style-type: none"> • Ensure valid SSL certificates are installed in the Persistent Agent Certificate Target <ul style="list-style-type: none"> • Version 8.x: Navigate to System > Settings > Security > Certificate Management. • Version 9.x: Navigate to Security Configuration > Certificate Management. • Packet Transport Configurations must have TCP 4568 listed <ul style="list-style-type: none"> • Version 8.x: Navigate to System > Settings > Persistent Agent > Transport Configuration. • Version 9.x: Navigate to Security Configuration > Agent Settings > Transport Configuration.
Agents Communicating with SSLv3	<p>FortiNAC versions 6.2.6, 7.0.3, 7.1.0, and 7.2.0 use SSLv3 to communicate with 3.x agents earlier than version 3.3. When you have replaced all of your 3.2.x, 3.1.x and 3.0.x agents with the 3.3 agent (or higher), FortiNAC 6.2.6, 7.0.3 and 7.1.1 can be configured to disable SSLv3 agent communications - thus completely removing the vulnerability for "POODLE" (CVE-2014-3566.) Contact Product Support for details and assistance.</p>
AV/AS Definitions	<p>Using the "Cert-Check" and "Service" Custom Scans that are new in the 7.3.0 release of FortiNAC requires the use of AV/AS Definitions published June 22, 2015 or greater, Agent 3.5.0 or greater and FortiNAC 7.3 or greater.</p>
Endpoint Compliance	<p>Added Legacy Dissolvable and Legacy Persistent Agent options in Endpoint Compliance Configurations. These options allow you to deploy the latest agent that does not require certificates. Agents that do not require certificates are the 2.X Persistent and Dissolvable Agents and the 3.0.X Dissolvable Agent. If you choose Latest Agent, the Agent on your server with the highest version number is deployed. This could be an agent that requires a certificate. On upgrade the Persistent or Dissolvable Agent options that were set to Latest Agent will now be set to Legacy Agent.</p>
Operating System Case	<p>Agent V3.0 and higher requires Mac OS X 10.6 or higher.</p>
Persistent Agent Case	<p>Changed VMs running on LINUX hosts to show as new rogues. Previously, the VM would be appended to the host's adapters as a Virtual-Guest adapter.</p>

Upgrade Instructions

System Update Settings

1. In the FortiNAC Administrative UI, navigate to **System > Settings > Updates > System**.
2. Update the appropriate fields to configure connection settings for the download server.

Field	Definition
Host*	Set to <code>fnac-updates.fortinet.net</code>
Auto-Definition Directory	Enter a dot (.) This field is not used for the Agent download in this version.
Agent Distribution Directory:	Agent_9
User	Set to <code>updates</code> (in lowercase)
Password	Keep the current value
Confirm password	Keep the current value
Protocol	Set to desired protocol (FTP, PFTP, HTTP, HTTPS) Note: SFTP has been deprecated and connections will fail using this option. SFTP will be removed from the drop down menu in a later release.

3. When the download settings have been entered, click **Save Settings**.

Download Agent Software

1. From the tree on the left select **Updates > Agent Packages**.
2. Scroll to the bottom of the page and click the **Download** button to display a list of available agent packages.
3. Click the **Download** button next to an agent package to initiate the download. A progress page is displayed until the download is complete.

Upgrading Agent Software

It is recommended to upgrade the agent using the same method as deployment.

Software Management System or Group Policy

Download the agent package from FortiNAC. For instructions, see section **Download the Persistent Agent** for custom distribution in the appropriate Administration Guide:

- [Version 9.4](#)

When using Group Policies, add the new agent package and list it as an upgrade to the previous versions. Ensure any previous package referenced by the GPO remains in place until all hosts have successfully moved off that version. For assistance, consult vendor documentation.

FortiNAC Captive Portal

For Persistent Agents distributed via the Captive Portal, see section **Upgrade the Persistent Agent** of the appropriate Administration Guide for agent upgrade instructions.

- [Version 9.4](#)

Numbering Conventions

Fortinet is using the following version number format:

<First Number>.<Second Number>.<Third Number>.<Fourth Number>

Example: 8.0.6.15

- First Number = major version
- Second Number = minor version
- Third Number = maintenance version
- Fourth Number = build version

Release Notes pertain to a certain version of the product. Release Notes are revised as needed. The Rev letter increments accordingly. For example, updating the Release Notes from Rev C to Rev D indicates changes in the Release notes only -- no changes were made to the product.

The next number represents the version in which a Known Anomaly was added to the release notes (for example, V8.0).



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