

InstallAnywhere 2021 Release Notes

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Introduction

InstallAnywhere is the leading multiplatform installation and container development solution for application producers who need to deliver a professional and consistent installation experience for physical, virtual, and cloud environments as well as container deployments.

For the latest information about this release of InstallAnywhere, including updates to these release notes, see the online version of the [InstallAnywhere 2021 Release Notes](#).

New Features in InstallAnywhere 2021

InstallAnywhere 2021 includes the following features:

- [Support of File Associations in Windows](#)
- [Support for 8.3 File Naming](#)

Support of File Associations in Windows

In InstallAnywhere 2021, new Action has been added to handle File Associations on Windows platforms. This Action is available for all project types. New Action “Associate File Extension - Windows” is added to Install Phase & Post- Install Phase. It is available at:

- **Sequence > Install > Add Action > General**
- **Sequence > Post-Install > Add Action > General**



Note - This change was tracked in issue IOJ-2136142.

Support for 8.3 File Naming

You can now enable 8.3 file naming for all volumes with elevated privileges for Windows target machines. Added new action “Enable 8.3 File Naming Action” to enable 8.3 naming for all volumes and added a new variable “\$IA_8DOT3_FILENAMECREATION_STATE\$” to identify whether the 8.3 File creation is enabled or not for all volumes.



Note - This change was tracked in issue IOJ-2095596.

Enhancements

InstallAnywhere 2021 includes the following enhancements:

- [Enhancements in InstallAnywhere 2021](#)

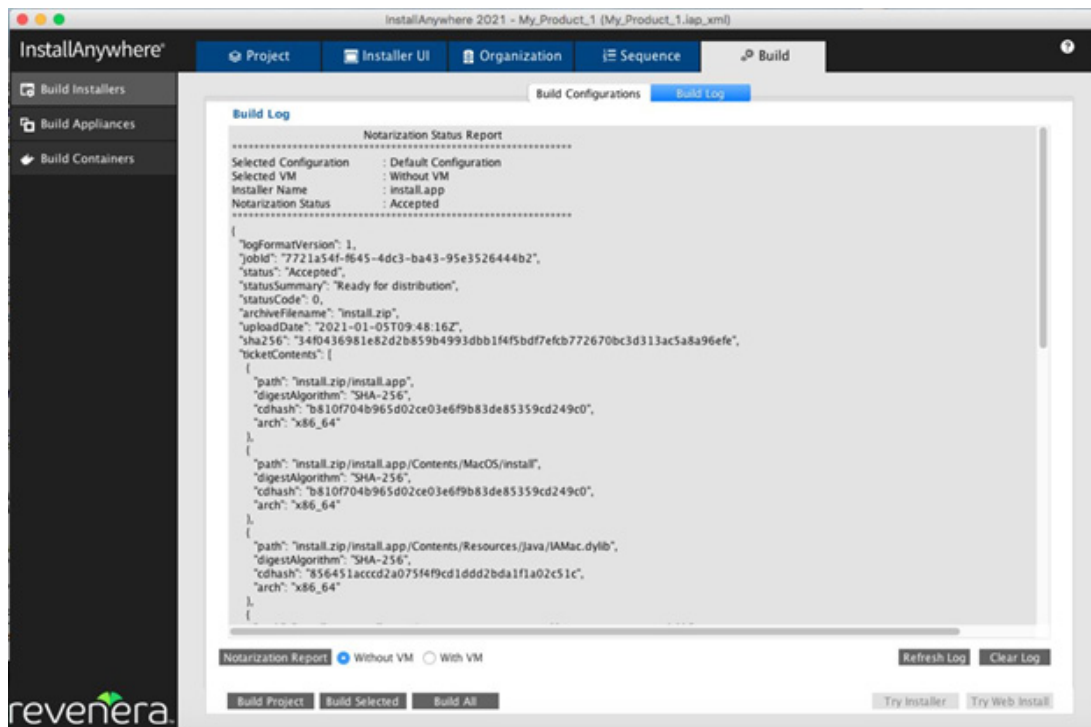
Enhancements in InstallAnywhere 2021

This section lists enhancements that were included in InstallAnywhere 2021:

- [MacOS Notarization Report](#)
- [Advanced Get User Input Panel](#)
- [Support for Text Wrap in Prompt Fields](#)
- [Validation Check to Panels](#)

MacOS Notarization Report

Added Notarization Report option under Build Log. Enable the notarization option while building the Mac Installer to display Notarization Report option under the Build Log. The Notarization Report can be viewed by selecting the “Without VM” or “With VM”.



Note • This change was tracked in issue [IOJ-2134480](#).

Advanced Get User Input Panel

In the Get User Input panel, added Mandatory Field control for Textfield and Choice Group. It controls the navigation of Installer based on value/selection of component.



Note - This change was tracked in issue IOJ-1907418.

Support for Text Wrap in Prompt Fields

Support has been added to text displayed in Prompt fields on panels to wrap rather than being truncated. Wrap Support added to prompt text of the below panels:

- Choose Install Folder
- Choose File
- Choose Folder
- Get Password
- Get Serial Number
- Find File/Folder

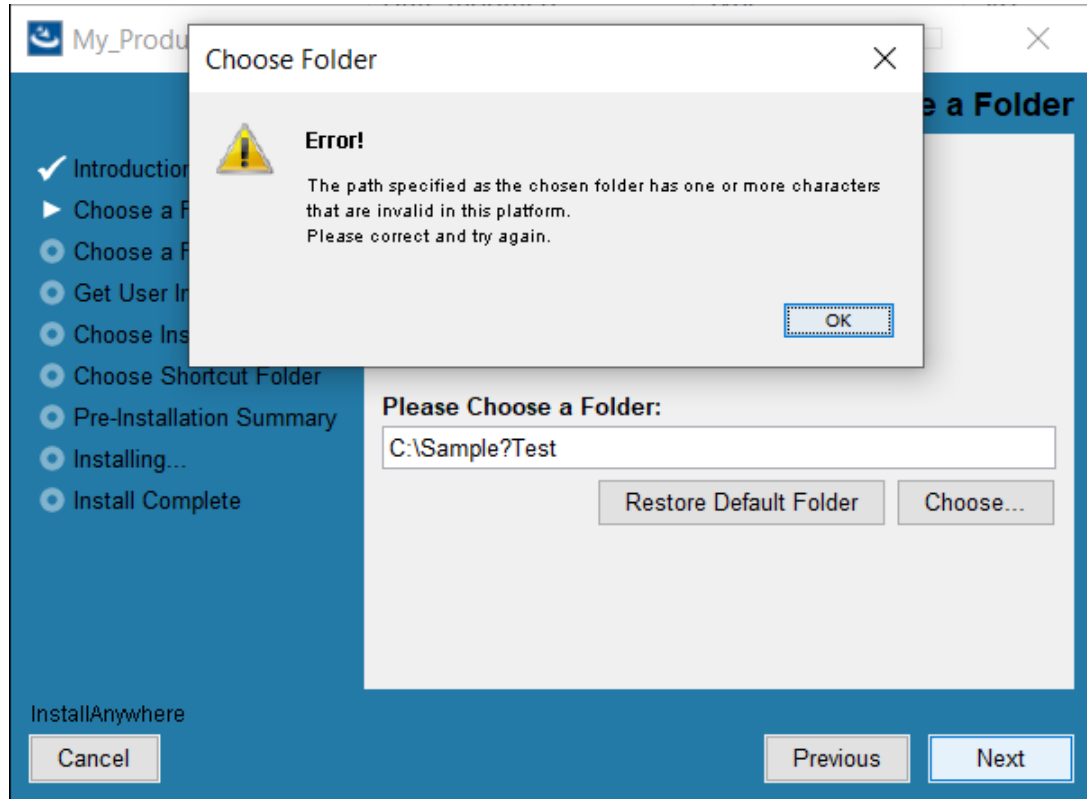


Note - This change was tracked in issue IOJ-2097295.

Validation Check to Panels

Added Validation Check for Choose Folder Panel, Choose File panel, Get User Input Advanced- Panel > File Chooser, and Get User Input Advanced Panel > Folder Chooser.

Special characters ?:"<>| are validated on Windows. The below message will be displayed if these characters are entered in the input box. On invalid entry, default value will be set.



Note • This change was tracked in issue IOJ-1872260.

Important Information

Note the following important information regarding InstallAnywhere 2021:

- [Evaluating InstallAnywhere](#)
- [Obtaining the Installation and License Files for InstallAnywhere](#)

Evaluating InstallAnywhere

Note that if you have not purchased a license for InstallAnywhere, you can install it and use it for a limited number of days without setting up the licensing. When you are using InstallAnywhere in this scenario, it operates in evaluation mode. The licensing wizard that InstallAnywhere displays whenever you launch InstallAnywhere in evaluation mode shows you how many days are left in the evaluation period. If you do not set up the licensing within the evaluation period, InstallAnywhere stops working when the evaluation period ends. You can set up licensing at any time before or after the evaluation period ends.

When you use InstallAnywhere in evaluation mode, there is a time limit for running installers that it creates. If you build an installer in the evaluation version of InstallAnywhere, your installer will stop working after 3 days.

When you use InstallAnywhere in evaluation mode, InstallAnywhere limits you to a maximum of five successful builds of Docker containers.

Obtaining the Installation and License Files for InstallAnywhere

You can obtain the installation and license files for InstallAnywhere through the Revenera Product and License Center. For instructions, see the Download and licensing instructions for InstallAnywhere. If you purchased concurrent licenses of InstallAnywhere, the license server software is also available for download from that same site.

Resolved Issues

This section lists the customer issues that were resolved in the following versions of InstallAnywhere 2021.

- [InstallAnywhere 2021](#)

InstallAnywhere 2021

The following issues have been resolved in InstallAnywhere 2021.

Issue Number	Issue Summary
IOJ-2162825 IOJ-2155918	While building Installer, the exception was written to stderr when Set Windows Registry action created empty key, the key does not exist on the system, and with logging is enabled. This issue has been fixed. Now, the Installer does not throw any exception.
IOJ-2151979	Checkboxes associated with each feature are not visible when Choose Install Set panel was initially displayed; selecting any of the checkbox refreshed the page and displaying the checkboxes. Now, the checkboxes are displayed for all the features in the Choose Install Set Panel.
IOJ-2151380	On the Choose Install Set panel, the feature names were truncated with Java 9 or higher versions when DPI scaling is set to 125%. This issue has been fixed. The feature names are displayed fully on Choose Install Set panel when scaling set to 125%, 150% and 175%.
IOJ-2125373	The bottom border of the language selection drop-down widget is not visible for the Traditional Chinese language selection. This issue has been fixed.
IOJ-2123222	Windows launcher failed when the same installer was launched simultaneously with another instance. This issue has been fixed.
IOJ-2115323	For Mac Installer, the build log output wrote “.zip file” instead of “.app file” in IA 2020 SP1. This issue has been fixed.
IOJ-2113600	LaunchAnywhere launcher with -javaagent option for macOS was not installed successfully during installation. This issue has been fixed.
IOJ-2102856	Icon displayed on Dock when installing a Merge Module on macOS was not related to the product being installed. Now, the icon displayed on Dock is same as parent icon.
IOJ-2099994	License Agreement panel was not refreshed with the content of license file when IA Variable used to specify path to existing file that was updated during runtime. This issue has been fixed.

Issue Number	Issue Summary
IOJ-2099986	Installer threw NullPointerException and exited during initialization, if the Product Registry file in /var did not exist and user.home was not readable. Now, the Installer launches without any error.
IOJ-2097298	Extracted macOS web installer on macOS 10.15 (Catalina) lacked execute permission on executable stub in App Bundle and failed to launch. This issue has been only fixed when building on macOS.
IOJ-2081150	JavaDocs for com.zerog.ia.auto.project.InstallerUI did not explain about which splash screen (100%, 150%, 200%) is set by methods setSplashScreenImage(), setSplashScreenImage1(), and setSplashScreenImage2(). Now, the JavaDocs for com.zerog.ia.auto.project.InstallerUI has been updated with explanation for splash screen (100%, 150%, 200%) is set by methods setSplashScreenImage(), setSplashScreenImage1(), and setSplashScreenImage2().
IOJ-2080568	Installer step labels were not wrapped when "Allow label text to wrap" is checked. This issue has been fixed. Now, the Installer step labels are wrapped and displayed fully.
IOJ-2079782	Text on the right side of Get User Input panel and few other panels were not fully visible. Text was cut off. This issue has been fixed. Now, the text on panels is not cut off and is fully visible.
IOJ-2079773	On panels, line that begins with a space was not left justified. This issue has been fixed. Now, text is aligned based on the Text Justification even when there is a space at the beginning of the sentence.
IOJ-1902003	Billboard image displayed blurry on normal and High DPI. This issue has been fixed. Now, the Billboard image is displayed clearly.
IOJ-2116477	Image displayed for Installer Steps was distorted even when configured not to scale horizontally or vertically. This issue has been fixed.
IOJ-2113645	Installer Steps Image displayed pixelated/blurry on macOS. This issue has been fixed.
IOJ-2095381	When Splash Screen was scaled, the language selection drop-down option and OK button were displayed off the screen. This issue has been fixed.
IOJ-2090274	Billboard images displayed on macOS were blurry and/or pixelated. This issue has been fixed.
IOJ-1992790	On macOS, Splash screen image displayed larger and pixelated with installer built with InstallAnywhere 2018 SP1. This issue has been fixed. Now, the splash screen displays clear.

Issue Number	Issue Summary
IOJ-1930984	On Linux, Introduction Panel text on right side of panel was truncated and cut off. This issue has been fixed. Now, the Introduction Panel text are wrapped correctly.
IOJ-1882431	The standard install log warning message was incorrect when referencing the C drive as the source location for Copy File Action. This issue has been fixed. The correct warning message is shown in standard install log when referencing C drive as source location for Copy File Action & Move File Action.
IOJ-2098020	When Require Root was set to Yes, Require Root check failed and the non-root user was allowed to proceed with the installation. This issue has been fixed. The Installer allows only the root user to proceed with installation. For non-root user, it displays the error associated with the Requires Root property and forces to quit the Installer.
IOJ-2092378	Java style comments were shown in launcher scripts in the install location of InstallAnywhere 2020 SP1. This issue has been fixed.
IOJ-2081153	No documentation was provided for different splash screen images (100%, 150%, 200%). The documentation for the splash screen has been added.
IOJ-2087653	Feature Short Name changed when copying Feature Name using Ctrl+C but not changing the value of Name. This issue has been fixed. Now, Value of name field is copied to clipboard and the values in both the Name and Short Name fields are not altered.
IOJ-2148302	While migrating project with Choose Folder Panel from IA 2017 to IA 2020 SP2 resulted in unsupported type messages in build output. This issue has been fixed.
IOJ-2115903	In InstallAnywhere 2020, the word CS-ERROR was written in the output log and it was confusing as the output did not contain any error. This issue has been fixed and the word CS-ERROR is not written in the output log or console.
IOJ-2087406	When the path to install.jar on macOS contained a directory that ends in .app, the Pure Java installer failed to launch with the error. This issue has been fixed.
IOJ-1994291	Splash screen image displayed pixelated/blurry on high DPI settings on windows. This issue has been fixed. Now, the splash screen displays clear and scales appropriate, as per the DPI settings.
IOJ-1991737	The help text appeared while running the Installer on a Linux machine with GUI not enabled was misleading. This issue has been fixed on Linux. The help text is displayed correctly now.
IOJ-1739948	A Without VM Windows Pure 64 Bit installer failed to launch even when a 64-bit JVM was present on the 64-bit machine. This issue has been fixed. Now, no launcher error displayed while launching Pure 64 Bit installer on 64 bit machine.

Issue Number	Issue Summary
IOJ-1725830	Added the ability to customize the text displayed by the help dialog.
IOJ-2166657	Typo found in the "What's New in InstallAnywhere 2018 SP1" section of the Help is fixed.

System Requirements

The following are the system requirements for InstallAnywhere 2021:

- [Requirements for Systems that are Running InstallAnywhere \(Authoring Environment\)](#)
- [Requirements for Docker Images](#)
- [Requirements for Target Systems \(Installer Run-Time Environment\)](#)
- [Supported Java Virtual Machines](#)
- [Requirements for Virtual Appliances](#)

Requirements for Systems that are Running InstallAnywhere (Authoring Environment)

RAM

256 MB; 512 MB preferred

Hard Disk Free Space

500 MB

Color

High color (16-bit color depth)

Resolution

Minimum 1200 x 800

Operating System

InstallAnywhere runs on the latest versions of these operating systems, fully updated with the most recent patches and service packs.

Operating System	Supported Versions
Windows	<ul style="list-style-type: none">● Windows 10 (20H2)● Windows Server 2008 R2, 2012, 2012 R2, 2016 and 2019(x64)● Windows 10 Fall Creators● Windows 10 Anniversary Update (x86 and x64)● Windows 7, 8.1 and 10 (x86 and x64)● Windows Vista● Windows Server 2008 (x86 and x64)
Apple	<ul style="list-style-type: none">● macOS Big Sur (11) with Oracle and Amazon Corretto Java 11.0.7+, Java 15● macOS Big Sur (11) with Oracle and Amazon Corretto Java 11.0.7+, Java 15 on Apple M1● macOS Catalina (10.15) with Oracle Java 11.0.7+● macOS Mojave (10.14) with Oracle Java 8, 9, 10 or 11 or 12● macOS High Sierra (10.13.3) with Java 7 or 8● macOS Sierra (10.12) with Oracle Java 7 or 8● OS X El Capitan (10.11) with Oracle Java 7 or 8

Operating System	Supported Versions
Linux	<ul style="list-style-type: none"> ● Red Hat Enterprise Linux 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8 (x64), and 8.3 ● Red Hat Enterprise Linux 7/7.1 ● Red Hat Enterprise Linux 6.x (desktop and server editions; x86 and x64) ● Red Hat Enterprise Linux 5.x (x86 and x64) ● OpenSUSE Leap 42.3 (x64) ● OpenSUSE Linux 13.2, 15.1 (x64), 15.2 ● OpenSUSE Linux 11.x, 12.x and 13.1 (x86 and x64) ● SUSE Linux Enterprise 11 (SP2 and SP3; x64), 12 (SP1, x64) and 15 ● Linux PPC 64-bit (build time only) only with Java 6 ● Ubuntu 14.x, 15.04, 17.04, 17.10, 18.04, 18.04.2, 19.04 (x64), and 20.1 ● Ubuntu 13.x (desktop and server editions; x86 and x64) ● Ubuntu 10.x, 11.x, and 12.x (x86 and x64) ● Fedora 18, 19, 20, 24, 27, 28, 29, 30 (desktop editions; x64), and 33 ● CentOS 8.3



Note - When you install InstallAnywhere on a Linux system, the installation attempts to create a symbolic link to the default Linux loader (`/lib/ld-linux.so.2`) if a link with the same name is not already present. The symbolic link is necessary for the host ID to be displayed on the Host ID dialog, and it is also necessary for successful node-locked licensing. The link is present on systems that are Linux Standard Base (LSB) 3 compliant, but it may not be present on systems that are not LSB compliant. For more information, see Knowledge Base article Q209204.

Installers can be built from any supported authoring platform for any other supported target platform or language. Localizations for 32 languages are included.

Requirements for Docker Images

Support for building Docker images from InstallAnywhere 2017 when Docker is installed on the platforms below.

Item	Description
Docker Version Supported	Docker 1.7.1
Windows	<ul style="list-style-type: none">• Windows 7
Linux	<ul style="list-style-type: none">• Ubuntu 14.10• Red Hat Enterprise Linux 7.1• CentOS 7.6
Apple	<ul style="list-style-type: none">• OS X 10.8.x, 10.9.x, and 10.10.3

Requirements for Target Systems (Installer Run-Time Environment)

RAM

64 MB

Color


High color (16-bit color depth)

Resolution

Minimum 640 x 480

Operating System

Installers run on any version of these operating systems, as long as the operating system supports Java 6, 7, or 8 (but Oracle Java 7 or 8 for OS X). InstallAnywhere-generated installers are not supported on beta versions or on early-access releases unless they are explicitly mentioned.

Operating System	Supported Versions
Windows	<ul style="list-style-type: none">• Windows 10 (20H2)• Windows Server 2008 R2, 2012, 2012 R2, 2016 and 2019(x64)• Windows 10 Fall Creators• Windows 10 Anniversary Update (x86 and x64)• Windows 7, 8.1 and 10 (x86 and x64)• Windows 8 (x86 and x64)• Windows Server 2008 (x86 and x64)  <p>Note - Windows-based target systems must also support the SSE2 instruction set.</p>
Apple	<ul style="list-style-type: none">• macOS Big Sur (11) with Oracle and Amazon Corretto Java 11.0.7+, Java 15• macOS Big Sur (11) with Oracle and Amazon Corretto Java 11.0.7+, Java 15 on Apple M1• macOS Catalina (10.15) with Amazon Corretto notarized Java 11.0.7• macOS Mojave(10.14) with Oracle Java 8 or 9 or 10 or 11 or 12• macOS High Sierra (10.13.3) with Oracle Java 7 or 8macOS Sierra (10.12) with Oracle Java 7 or 8• OS X El Capitan (10.11) with Oracle Java 7 or 8

Operating System	Supported Versions
Linux	<ul style="list-style-type: none"> CentOS 6.8, 7, 7.3, 7.4, 7.6, 7.8, 8.1 (x86, x64), and 8.3 Red Hat Enterprise Linux 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8, 8.2 (x64), and 8.3 Red Hat Enterprise Linux 7.2 for PowerPC (little endian) Red Hat Enterprise Linux 7/7.1 Red Hat Linux 7.1 for PowerPC (little endian - silent and console mode only) Red Hat Enterprise Linux 6.x, SUSE 11.x on zSeries Red Hat Enterprise Linux 6.x SUSE 11.x PPC 64-bit (build time only) with Java 6 Red Hat Enterprise Linux 6.x (desktop and server editions; x86 and x64) Red Hat Enterprise Linux 5 (x86, x64, Itanium 2, and AMD-64) OpenSUSE Linux 13.2, 15.1, 15.2, and 42.3 (x64) OpenSUSE Linux 11.x, 12.x and 13.1 (x86 and x64) Oracle Linux 8.2 SUSE Linux Enterprise 11 (SP2 and SP3; x64), 12 (SP1, x64), 15 Ubuntu 14.x, 15.04, 16.04 LTS, 17.10, 18.04, 18.04.2, 19.04, 20.04 (x64), and 20.1 Ubuntu 13.x (desktop and server editions; x86 and x64) Ubuntu 9.x, 10.x, 11.x, 12.x (x86 and x64) Fedora 18, 19, 20, 24, 27, 28, 29, 30, 32 (desktop editions; x64), and 33
Solaris	<ul style="list-style-type: none"> Solaris 11 (x86 and SPARC) Solaris 9, 10 (x86, SPARC, and AMD-64) HP-UX
HP-UX	<ul style="list-style-type: none"> HP-UX 11i (Itanium 2 and PA-RISC)
AIX	<ul style="list-style-type: none"> AIX 5.2, 5.3, 6.1, and 7.1 (Power/PowerPC)
IBM	<ul style="list-style-type: none"> i5/OS (OS/400) on System i - V5R3 and V5R4 (Enterprise Edition only), IBM i 6.1, and IBM i 7.1 z/OS
Other	<ul style="list-style-type: none"> FreeBSD Other Linux and UNIX operating systems (POSIX-compliant shell required)

Supported Java Virtual Machines

InstallAnywhere supports the following Java virtual machines:

Manufacturer	Supported Versions
IBM	1.8.x, 9
HP	1.8.x, 9, 11.0.2
Sun/Oracle	1.8.x, 9, 10, 11, 11.0.7, 12, 14.0.1, 15
OpenJDK	1.8.x, 9, 11, 11.0.7, 12, 14.0.1, 15
Amazon Corretto	8, 11, 11.0.7, 15
AdoptOpenJDK	11.0.7

The InstallAnywhere installer installs JRE 1.7.0_60 VM packs. Any Java virtual machine can be bundled with an installer ensuring that the target system meets the minimum requirements for both the installers and your applications. To download additional JRE VM packs, visit <https://www.revenera.com/install/products/installanywhere/installanywhere-files-utilities.html> and click the VM Packs option.

InstallAnywhere-generated installers are not supported on beta versions or on early-access releases of Java.

Requirements for Virtual Appliances

The following are requirements for virtual appliances:

- [System Requirements for Building and Auto-Deploying Virtual Appliances](#)
- [Supported Hypervisors and Platforms for Virtual Appliances](#)

System Requirements for Building and Auto-Deploying Virtual Appliances

The following table lists the system requirements for building and auto-deploying virtual appliances from within InstallAnywhere.

Hypervisor	Requirements
VMware vSphere 5/vCenter	<ul style="list-style-type: none">• Credentials to a VMware vSphere 5 Server• If your VMware vSphere 5 Server is managed by a VMware vCenter 5 Server, the credentials to the VMware vCenter Server are also required.• Host machine credentials (credentials to a physical/virtual machine that closely resembles the virtual appliance operating system)
Amazon EC2	<ul style="list-style-type: none">• Amazon EC2 account information (account number, access key, secret key, X.509 certificate, and private key associated with your Amazon EC2 account)• Host machine credentials (credentials to a physical/virtual machine that closely resembles the virtual appliance operating system)

Supported Hypervisors and Platforms for Virtual Appliances

InstallAnywhere supports the creation of virtual appliances that run on VMware vSphere 5 and Amazon EC2 hypervisors. A VMware vSphere 5 virtual appliance is deployable on a licensed VMware vSphere 5 Server (standalone) or a licensed VMware vSphere 5 Server that is managed by a licensed VMware vCenter 5 Server.

The following table identifies the operating systems that are supported on the supported hypervisors.

Supported Hypervisor	Supported Operating Systems
VMware vSphere 5/vCenter	<ul style="list-style-type: none">● CentOS 7, 6.2 and 6.3 (x86 and x64)● OpenSUSE 12.2 (x86 and x64) and SUSE Linux Enterprise Server 11 SP2—Requires the use of an existing SUSE VM or snapshot (No support for using a SUSE VM virtual appliance template)● Red Hat Enterprise Linux 6.4 (x86 and x64)—Requires the use of a Red Hat Network-registered RHEL VM virtual appliance template● Red Hat Enterprise Linux 6.3 (x64)—Requires the use of a Red Hat Network-registered RHEL VM virtual appliance template● Ubuntu 11.10, 12.04, 12.1 and 13.04 (x86 and x64)
Amazon EC2	<ul style="list-style-type: none">● Ubuntu 11.10 and 12.04 (x32)

Known Issues

There is no known issue in InstallAnywhere 2021.

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