InstallAnywhere 2012/ InstallAnywhere 2012 SP1

Release Notes

originally released October 2012; updated to include SP1, released January 2013

Introduction

InstallAnywhere 2012 is the leading multiplatform installation development solution for software producers who need to deliver a professional and consistent installation experience for physical, virtual and cloud environments.

InstallAnywhere 2012 creates industry leading multiplatform installations that support the newest operating systems, such as Windows 8 and Windows Server 2012. It also provides new capabilities for releasing software as an Amazon Machine Image and as an enterprise-ready virtual appliance for VMware hypervisors, using the Open Virtual Format 1.1 standard. With InstallAnywhere 2012, you can create both physical and virtual outputs from a single InstallAnywhere project, enabling you to take existing and new software products to virtual and cloud infrastructures. InstallAnywhere 2012 does it all for you with an installation solution that streamlines the deployment process on-premises, in the cloud and in enterprise virtual machine hosting environments.

InstallAnywhere 2012 Service Pack 1 (SP1) includes changes that offer support for Mac OS X 10.8 (Mountain Lion), SUSE Linux 12.2, Ubuntu 12.10, IBM i 7.1, Red Hat Enterprise Linux 6.3, and Fedora 17.

New Features

This section describes the new features in the following versions of InstallAnywhere.

- InstallAnywhere 2012 SP1
- InstallAnywhere 2012

InstallAnywhere 2012 SP1

InstallAnywhere 2012 SP1 includes the following new features:

- New Platform Support
- Ability to Code Sign Mac OS X Installers for Mountain Lion Gatekeeper Support
- Ability to Deploy VMware Virtual Appliances to a Designated Server

New Platform Support

InstallAnywhere 2012 SP1 supports the latest and most updated platforms including Mac OS X 10.8 (Mountain Lion), SUSE Linux 12.2, Ubuntu 12.10, IBM i 7.1, Red Hat Enterprise Linux 6.3, and Fedora 17.

Ability to Code Sign Mac OS X Installers for Mountain Lion Gatekeeper Support

InstallAnywhere now has support for signing Mac OS X installers with a Developer ID installer certificate at build time. Signing an installer with this type of certificate enables you to distribute it outside the Mac App Store. When an end user downloads and runs your installer, Gatekeeper allows the installer to run.

If an end user tries to launch an unsigned, downloaded installer on a Mac OS X Mountain Lion system on which Gatekeeper is turned on, the system displays an alert and blocks the installer from running.

To configure code signing for your Mac OS X installers, use the new Code Signing area on the Mac OS X tab of the Project > Platforms subtask. This area lets you specify whether you want to code sign the installer that InstallAnywhere generates at build time. It also lets you specify the certificate file and password.

Ability to Deploy VMware Virtual Appliances to a Designated Server

InstallAnywhere now lets you specify the deployment server that you want to use for your VMware virtual appliances. If you have a specific server designated as your deployment server and you have your appliance configured to deploy automatically, InstallAnywhere deploys the virtual appliance to the specified machine at build time.

To specify a designated deployment server, open the Build Appliances tab, click the Application Configuration tab, and then configure the settings in the new Deployment Machine Credentials area.

InstallAnywhere 2012

InstallAnywhere 2012 includes the following new features:

- Windows 8/Windows Server 2012 Support
- Additional Platform Support
- New Cloud Pack Provides Support for Creating Virtual Appliances

Windows 8/Windows Server 2012 Support

InstallAnywhere 2012 supports the Windows 8 and Windows Server 2012 operating systems.

- You can run the InstallAnywhere 2012 authoring environment on Windows 8 desktop and Windows 2012 Server operating systems.

- Installers created with InstallAnywhere 2012, or existing installers that are rebuilt using InstallAnywhere 2012, will run successfully on Windows 8 desktop and Windows 2012 Server operating systems.

Also using InstallAnywhere 2012, you can use the **Check Platform** rule to specify that an action, panel, or console should only be executed on Windows 8/Windows Server 2012 platforms.

Additional Platform Support

InstallAnywhere 2012 supports the latest and most updated platforms including Mac OS X 10.7 (Lion), SUSE Linux 11.3, Ubuntu 12.04, Solaris 11 Sparc, HP-UX 11i, AIX 7.1, IBM i5/OS, Z/OS, RHEL 6, and Fedora 16.

New Cloud Pack Provides Support for Creating Virtual Appliances

InstallAnywhere 2012 with Cloud Pack supports the creation of Amazon EC2 cloud-ready images and VMware vSphere 5 enterprise-ready virtual appliances using your existing InstallAnywhere projects. InstallAnywhere 2012's Advanced Designer interface includes a new major task, **Build Appliances**, where you configure virtual appliances.

Virtual appliances are pre-built, pre-configured, and ready-to-run application solutions that are packaged along with an optimized operating system called a "Just Enough Operating System" (JeOS).

InstallAnywhere 2012's virtual appliance support includes the following features:

- Amazon EC2-Based Appliances Support

- VMware vSphere-Based Appliances Support

- Support for Creating VM Templates

- Support for Auto-Deployment of Virtual Appliances

- Advanced Support for Repository-Based Creation of Appliances

- Support for Specifying Hardware Requirements

- Installing Operating System Packages Used to Create Appliances

- Custom Script Support

- Credential Store Support

Amazon EC2-Based Appliances Support

InstallAnywhere 2012 supports the creation of virtual appliances for the Amazon EC2 public cloud infrastructure. For Amazon EC2 public cloud virtual appliances, the following platforms are supported:

- Ubuntu 11.10 (Oneiric Ocelot) 32-bit

- Ubuntu 12.04 (Precise Pangolin) 32-bit

Support for Amazon Elastic Block Store (EBS)

When you launch an Amazon EC2 instance, the root device volume contains the image used to boot the instance. When using InstallAnywhere 2012 to create an Amazon EC2 virtual appliance, you have the option of defining the root device type of the virtual appliance as **Elastic block store backed**, which tells Amazon EC2 to store the virtual appliance on a reliable storage volume that can be attached to a running instance in the same availability zone. EBS volumes attached to an instance persist independently from the life of the instance and are recommended to be used when data changes frequently and requires long term persistence.

Also available is the **EC2 instance store backed** option, which is temporary block level storage (also known as an "instance store" volume). An instance store is dedicated to a particular instance and the data on it persists only during the lifetime of its associated EC2 instance. Data on such instance store volumes are lost when the instances are stopped, fail or are terminated and cannot be restored. It is ideal to use such instance-store-backed instances for temporary storage of information or content.

Support for Regions of Deployment

In InstallAnywhere 2012, you can upload and run your Amazon Machine Image (AMI) from any of the following regions:

- US East (Northern Virginia) region

- US West (Northern California) region

- US West (Oregon) region

- South America (Sao Paulo) region

- EU (Ireland) region

- Asia Pacific (Tokyo) region

- Asia Pacific (Singapore) Region

Using this feature, you can deploy the AMI to the region closest to your customer base, which would result in faster response times, and would help you reduce costs.

VMware vSphere-Based Appliances Support

In InstallAnywhere 2012, you can use the same project that you use to create standard installers and Amazon EC2-based appliances to also create appliances for the VMware vSphere 5 private cloud infrastructure. For VMware vSphere 5 private cloud virtual appliances, the following platforms are supported:

- Ubuntu 11.10 (Oneiric Ocelot) 32-bit

- Ubuntu 12.04 (Precise Pangolin) 32-bit

- CentOS 6.2 and 6.3 32-bit

Support for OVF 1.1 Related Appliances

InstallAnywhere 2012 builds OVF (Open Virtualization Format) 1.1 virtual appliances for VMware vSphere. You also have the option of building VMware vSphere virtual appliances in OVA format, where the OVF 1.1 format output is archived as a `tar` file to enable easier distribution of the virtual appliance.

Support for Creating VM Templates

To create virtual appliances, you need to obtain a VM template, a pre-installed virtual machine disk that contains an operating system and critical operating system packages. In InstallAnywhere 2012, you can create your own VM templates using the **Create InstallAnywhere VM Template** wizard or via command line.

You can also download pre-built VM templates during the installation of InstallAnywhere 2012, or can download VM templates at any time from the InstallAnywhere: Files & Utilities page of the Flexera Software website.

Support for Auto-Deployment of Virtual Appliances

InstallAnywhere 2012 can help you test your virtual appliances using its built-in auto deployment feature, which helps you deploy your appliance to the corresponding hypervisor as part of its build. If you select the automatic deployment option:

- **VMware vSphere**—Your virtual appliance will be automatically deployed on the specified VMware vCenter/vSphere server.

- **Amazon EC2**—Your image will be automatically deployed to the Amazon EC2 infrastructure.

Advanced Support for Repository-Based Creation of Appliances

InstallAnywhere 2012 recognizes your requirement to have your build machines reside safely behind corporate fire walls, but also recognizes the fact that when you are building appliances, you usually need a connection to the Internet so that you can install operating system packages. To address that issue, InstallShield 2012 enables you to avoid connecting your build machine to the Internet by allowing you to use local OS repositories when creating appliances.

Support for Specifying Hardware Requirements

When configuring virtual appliances in InstallAnywhere 2012, you can specify hardware requirements for both Amazon EC2 and VMware vSphere virtual appliances.

Specifying Amazon EC2 Hardware Requirements

InstallAnywhere 2012 enables you to take specify one of the following instance types for Amazon EC2 images, which gives you the flexibility to meet your computing needs:

- Small Instance

- High CPU Medium Instance

- Medium Instance

Each instance provides a predictable amount of dedicated compute capacity and is charged per instance-hour consumed.

Specifying VMware vSphere 5 Hardware Requirements

For a virtual appliance with a target hypervisor of VMware vSphere 5, you can specify basic hardware requirements such as number of virtual CPUs, number of virtual CDROMs, number of virtual Ethernet adapters, the default virtual hard disk size, and the default virtual RAM size. InstallAnywhere 2012 will create the various controllers—such as SCSI and IDE controllers—for your hard drives and CDROMs respectively.

Installing Operating System Packages Used to Create Appliances

VM Templates created by InstallAnywhere include several operating system packages, such as SSH, wget, perl, and openssl. These packages are used by the virtual appliance creation process.

However, if there is a need to install additional operating system packages for your specific virtual appliance to work (such as proprietary operating systems), you can simply choose the ones for your virtual appliance on the **OS Package**s subtab of the **VM Configuratio**n tab of the **Build Appliances** task, and these will be installed for you during the creation of the virtual appliance.

Custom Script Support

Virtual appliances built by InstallAnywhere 2012 have the capability of automatically calling scripts at specific lifecycle stages of your appliance. You have the option of running custom shell scripts at First Boot, First Login, Subsequent Boot, and Subsequent Login of the virtual appliance.

For example, if you have installed an Apache web server in your virtual appliance, and this needs to be started every time your appliance boots up, then you can define a small shell script that will start your Apache web server each time it boots up.

Credential Store Support

InstallAnywhere does not store your credentials for building virtual appliances using the project file, but instead securely stores these credentials using a "credential store".

- **Encrypted**—The credential store is encrypted.

- **Available to all projects**—A credential defined in one project is also available to other InstallAnywhere projects on the same machine.

- **Store in source control**—For the credentials to be retrieved properly while building, these credential stores must also be stored in your source control system.

Licensing Procedure and Requirements for InstallAnywhere

Two different licensing models are available for InstallAnywhere:

- **Node-locked licenses**—With this license model, the product license is tied to a specific user and machine. This model is the traditional option and the one that is most often purchased. The license file is based on the host ID (the Ethernet/MAC address of the network interface card) for the machine on which InstallAnywhere is installed.

- **Concurrent licenses**—This model enables sharing or floating of InstallAnywhere product licenses among multiple users. With this model, you set up a licensing server in your environment, and

install InstallAnywhere on as many machines as needed. The InstallAnywhere license is tied to the specific licensing server, and each machine checks out a license from the server when a user launches InstallAnywhere. The licensing server manages how many instances of InstallAnywhere can be run simultaneously based on the terms of the concurrent license that is purchased. For this model, the license file is based on the host ID of the licensing server.

Note • Starting with InstallAnywhere 2011, the procedure for setting up InstallAnywhere licensing was revised. In earlier versions of InstallAnywhere, users with node-locked licenses registered their product by entering a serial number, while users with concurrent licenses used a Flexera Software-generated license file. Starting with InstallAnywhere 2011, both license models require a license file that is generated through the Flexera Software Product and License Center.

Obtaining License Files

Use the Flexera Software Product and License Center (https://flexerasoftware.subscribenet.com/) to generate and download the node-locked or concurrent license files that you have purchased and to view the license generation history. To learn how to use this site and set up the licensing for either licensing model, see the licensing instructions at:

http://www.flexerasoftware.com/instructions/product-license.htm

Note • You can also download the Flexera Software Product Download and License Guide for InstallAnywhere from the Flexera Software Web site:

http://www.flexerasoftware.com/downloads/instructions/productlicensing/en/ InstallAnywhereProductLicensing.pdf

Troubleshooting Node-Locked Licensing Issues

You may encounter the following issues when installing InstallAnywhere using a node-locked license:

- **Registering InstallAnywhere on a 64-bit Linux machine**—When attempting to license the 64-bit version of InstallAnywhere on a 64-bit Linux machine, after specifying the correct license file, the Licensing Wizard may display an error message stating that InstallAnywhere could not be registered. The issue is caused by how the native library necessary for node-locked licensing was compiled and differences between various Linux operating systems. For information on resolving this issue, see the *Q214129: Unable to License 64-Bit Version of InstallAnywhere 2011 Using a Node-Locked License File on 64-Bit Linux Operating Systems* KB article at:

   http://kb.flexerasoftware.com/selfservice/microsites/ search.do?cmd=displayKC&docType=kc&externalId=Q214129

- **Installing InstallAnywhere on Linux-based systems**—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. This attempt may be unsuccessful. For information on resolving this issue, see the *Q209204: Installing InstallAnywhere 2011 on Linux-Based Systems* KB article at:

   http://kb.flexerasoftware.com/selfservice/microsites/ search.do?cmd=displayKC&docType=kc&externalId=Q209204

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. 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.

Simultaneous Build Restriction

When building an InstallAnywhere project using the command line builder utility with a "build-only" node-locked license, you are permitted up to five simultaneous builds. Each time a build is started, a "token" is acquired, which is released once the build is finished.

If you attempt to perform more than five simultaneous builds, you will see the following error message:

```
Simultaneous Build Manager: Error !!!
Reason=Exceeded Maximum Allowed Simultaneous builds for your license.
Remedy=Please try building after one of your existing build processes complete.
```

Important • *If you cancel a build by pressing Ctrl+C, that token will not be immediately released; it will be locked out for 12 hours, after which it will automatically be released. Therefore, if you cancel multiple builds using Ctrl+C, you may encounter this Simultaneous Build Manager error even though five simultaneous builds are not currently running.*

Resolved Issues

This section describes the issues that were resolved in the following versions of InstallAnywhere.

- InstallAnywhere 2012 SP1
- InstallAnywhere 2012

InstallAnywhere 2012 SP1

This section describes the issues that were resolved in InstallAnywhere 2012 SP1.

Issue Number	Issue Summary
IOA-000028365	The setProgress methods such as setProgressStatusText now set progress information during uninstallation.
IOA-000055389	If the command-line builder attempts to include in the build a specific Java virtual machine (VM) that is specified in the build .properties file, and if the VM is found at build time, the build process now includes that VM in the installer. Previously, the build generated an error, but the build succeeded because the command-line builder used an arbitrary VM (the first valid VM pack that the build process found in InstallAnywhere's default VM pack directory—resource\installer_vms).

Issue Number	Issue Summary
IOA-000065677	If a Set InstallAnywhere Variable action sets a value for a variable that is used in a rule on a panel before that panel is displayed, and then if another Set InstallAnywhere Variable action changes the value after the panel is displayed but before the next panel is displayed, the Previous button is now disabled. Previously in this scenario, the Previous button was not disabled; if the end user clicked the Previous button, the installation stopped responding.
IOA-000066371	If an end user upgrades a product that has a newer version number, the product's entry in Add or Remove Products on Windows-based systems now shows the correct version number. Previously, the version number was not updated during the upgrade.
IOA-000066642	You can now use environment variables in the PLATFORM_HINT section of JVM spec files for non-Windows systems.
IOA-000066700	When end users navigate between panels, the cursor is no longer positioned in read-only locations on the Choose Install Directory panel or the Get User Input - Advanced panel. Previously in some scenarios, the cursor was positioned next to read-only text.
IOA-000068743	When the PLATFORM_HINT section of a JVM spec file contains a valid registry value and it combines with the JVM_EXE property value to form a path where a valid JVM is installed on a target system, the installation finds the JVM and the installation is launched. Previously, the installation failed to find the JVM; therefore, and the installation was not launched.
IOA-000072308	If the destination path of a Create Alias, Link, Shortcut action is a shortcut's destination folder that contains one or more spaces, the spaces are no longer replaced with underscores at run time on Unix systems.
IOA-000072605	The build properties file now contains a WindowsDefaultUI option that lets you specify whether you want to use the GUI or console type of launcher for Windows-based systems.
IOA-000072631	The CustomError class is now available through the UninstallProxy object, enabling you to log additional details in the uninstaller log files.
IOA-000072831	If an installation is built from the command line using a build properties file that specifies console for the Windows install launcher type, and if this installation is run in silent mode from the Command Prompt window on Windows target systems, the installation now waits until the install process is complete before moving to the next prompt. Previously, the installation moved to the next prompt as soon as the silent installation started running in the background.

Issue Number	Issue Summary
IOA-000073548	The installation now displays the product's icon in the Dock on Mac OS X 10.8 Mountain Lion systems without requiring the end user to log out and then log in. Previously, the icon was not displayed, regardless of whether the Dock predefined Magic Folder was selected as the destination location for the Create Alias, Link, Shortcut action, or the end user selected the Dock as the destination for the alias on the Shortcuts Destination panel.
IOA-000073882	If an installation is run in console mode, various panels no longer cut off some of the Japanese text.
IOA-000073952	Uninstalling now properly removes the Dock icon from Mac OS X 10.8 Mountain Lion systems. Previously in this scenario, an icon with a question mark was left on these systems.
IOA-000074231	Installations that use IBM JRE 1.5 SR2 are now able to load InstallShield MultiPlatform APIs.
IOA-000074403	If you launch an installation in console mode and the installation includes support for multiple languages such as English and French, you can now select any of the supported languages on the Choose Language console and have that language used for the remainder of the installation. Previously, English was always used to display the console text, even if a different language was selected.
IOA-000075901	The InstallAnywhere IDE no longer becomes slow and unusable when you are connected to the IBM Virtual Loaner Program system through a virtual private network and using the Cisco AnyConnect Secure Mobility Client.

InstallAnywhere 2012

This section describes the customer issues that were resolved in InstallAnywhere 2012:

Issue Number	Issue Summary
IOA-000053505	When installed on Windows Vista to a path including Unicode characters, installer is unable to write path to Registry or to shortcuts and uninstaller will not run.
IOA-000056103	External Resource Bundles are not built into the installer if the project is created on Windows and built on Linux.

IOA-000057509	A custom code action in the **Pre-Install** task which uses:
	
	`ProductRegistryService.getNewestProduct(sc)`
	
	causes the following to be created when cancelled in **Pre-Install**:
	
	`$USER_INSTALL_DIR$\$PRODUCT_NAME$_installation\.com.zerog.registry.xml`

Issue Number	Issue Summary
IOA-000063596	When browsing to a directory with certain Chinese characters on Windows using the **Choose Install Folder** panel, characters are displayed as ? and you cannot proceed.
IOA-000064629	While cancelling the installation process in **Pre-Install** phase, the log file is always generated on the desktop.
IOA-000065438	Running a command line build on any project using IBM JVM 1.6 build pxp6460sr9fp2-20110625_01(SR9 FP2) on PPC Linux fails with the following message: `IllegalStateException: Message digest cannot be cloned`
IOA-000065589	Installer Exit Code is set to zero (0) when the installer has rolled back due to a fatal exception.
IOA-000066501	Japanese wrapping label changes rapidly.
IOA-000066678	Unable to load project and save project through Project Automation Framework as non-root user on Linux.
IOA-000066886	Uninstall task categories are always displayed in English.
IOA-000068361	**Please Wait** panel of the interface and installer mask the text area.
IOA-000068611	When you specify that you want disk space information to be displayed in gigabytes in the **Pre-Install Summary** panel, the gigabytes are displayed in whole numbers.
IOA-000069329	Unexpected line switch in the **Not Enough Disk Space** panel.
IOA-000069446	Installer executable fails to install on Windows 8: `Stack Trace ZeroGu3 Windows DLL failed to load.`
IOA-000069534	**Choose Locale Panel** no longer automatically selects pt_BR, zh_CN, or zh_TW when launched on a machine set to that locale.
IOA-000069646	The build time variable for product name is not resolved on non-English locales.
IOA-000069778	Build fails when `DISPLAY` is set to an empty value and the project contains a **Get User Input Panel - Advanced** with a `NoClassDefFoundError` for the sun.awt.X11GraphicsEnvironment.
IOA-000070070	Czech is not displayed as default language on splash screen.
IOA-000071069	Uninstall hangs when attempting to uninstall a Set System Environment Variable action.
IOA-000071966	Running installer in silent mode with `-f` switch without a value throws `ArrayIndexOutOfBoundsException.`

Issue Number	Issue Summary
IOA-000072052	Environment variable fails to display after the installation is complete.
IOA-000072612	When `DISPLAY` is set to an incorrect value and the installer is run in silent mode, `NoClassDefFoundError` is thrown and the temp directory is not cleaned up.
IOA-000073465	Error message from **Panel: Choose Alias, Link, Shortcut Folder: Choose Shortcut Folder** cannot be localized.
IOC-000079130	The **Pre-Install Summary** panel displays the wrong information when free disk space available is around 21 TB.
IOC-000080085	Numerous reinstalls causes the `.com.zerog.registry.xml` file become so large that it causes an `OutOfMemoryError` and the installation fails.

InstallAnywhere Editions

There are three editions of InstallAnywhere 2012. Each edition is designed to meet product deployment needs for the different types of customers:

- InstallAnywhere Enterprise Edition

- InstallAnywhere Enterprise Edition with Cloud Pack

- InstallAnywhere Standard Edition

This manual describes all of the features available in the Enterprise Edition with Cloud Pack. Although some specific differences are called out throughout the manual, for a detailed chart of which features are available in each edition, check the InstallAnywhere Web site.

You can install all three editions using the same build; the InstallAnywhere edition that you purchased is activated when you provide license information.

Note • When you are using the trial license in evaluation mode, you will be evaluating the InstallAnywhere Enterprise with Cloud Pack edition.

InstallAnywhere Enterprise Edition

Enterprise Edition provides the powerful configuration options, user interaction, and client/server features. It simplifies complex installations and provides comprehensive developer customization. The Enterprise Edition is available in English and Japanese. Each Enterprise Edition has full international support to create installers in 31 different languages.

InstallAnywhere Enterprise Edition with Cloud Pack

Enterprise Edition provides the powerful features included in Enterprise Edition with the additional ability to build virtual appliances for cloud platforms such as Amazon EC2 and VMware vSphere.

InstallAnywhere Standard Edition

Standard Edition offers more features and customization than any other product in its class. It is ideal for desktop application deployment and has international support for 9 languages.

System Requirements

InstallAnywhere 2012 has the following system requirements:

- Systems Running InstallAnywhere (Authoring Environment)

- Target Systems (Installer Environment)

- Virtual Appliances

- Supported Java Virtual Machines

Important • *In InstallAnywhere 2012, JRE 1.4 for all JVMs is no longer supported for installer runtime environments.*

Important • *In InstallAnywhere 2012, the InstallAnywhere Advanced Designer is no longer supported on AIX and HP-UX platforms. However, the runtime support for these platforms continues to exist.*

Note • *Only architectures/platforms that are listed in this* **System Requirements** *section are officially supported by InstallAnywhere.*

Systems Running InstallAnywhere (Authoring Environment)

InstallAnywhere 2012 has the following system requirements for systems running the InstallAnywhere authoring environment:

Item	Description	
RAM	256 MB free	
Color	Minimum of 8-bit color depth (256 colors)	
Resolution	Minimum 1024 x 768 resolution	
Operating System	InstallAnywhere runs on the latest versions of these operating systems, fully updated with the most recent patches and service packs:	
	Windows	• Windows 8 (x86 and x64)
		• Windows Server 2012 (x64)
		• Windows 7 (x86 and x64)
		• Windows Server 2008 R2 (x64)
		• Windows Vista
		• Windows XP
		• Windows 2000

Item	Description	
Operating System (Continued)	**Macintosh**	Mac OS X 10.4, 10.5, 10.6 (with Java 1.6+), 10.7 (with Java 1.6+), and 10.8 (with Java 1.6+)
	Linux	● Red Hat Enterprise Linux 4, 5, and 6 (x86 and x64) ● SUSE Linux 9, 10 (x86) ● SUSE Linux 11.2, 11.3, 11.4, 12.1 (x86 and x64), and 12.2 (x86 and x64) ● Linux PPC 64-bit (build time only) only on JRE 1.6 ● Ubuntu 10.10, 11.10, 12.04 (x86 and x64), and 12.10 (x86 and x64) ● Fedora 14, 15, 16, and 17 *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.*
	Solaris	Solaris 9, 10, and 11 (SPARC)
		Note • A Japanese-localized version of InstallAnywhere Enterprise Edition is available on the Windows platform only. Installers can be built from any platform for any other platform or language. Localizations for 31 languages are included with Enterprise Edition. Localizations for 9 languages are included with Standard Edition.

Important • In InstallAnywhere 2012, the InstallAnywhere Advanced Designer is no longer supported on AIX and HP-UX platforms. However, the runtime support for these platforms continues to exist.

Target Systems (Installer Environment)

The following are the system requirements for systems running InstallAnywhere 2012 installers:

Item	Description
RAM	64 MB free
Color	Minimum of 8-bit color depth (256 colors)
Resolution	Minimum 640 x 480 screen resolution
Operating System	Installers run on any version of these operating systems, as long as the operating system supports Java 1.6 or later. Note, however, that Java 7 on Mac OS X is not supported.

Note • InstallAnywhere installers are not supported on beta or on early access releases unless explicitly mentioned.

Important • In InstallAnywhere 2012, JRE 1.4 for all JVMs is no longer supported for installer runtime environments.

Windows	- Windows 8 (x86 and x64) - Windows Server 2012 (x64) - Windows 7 (x86 and x64) - Windows Server 2008 R2 (x64) - Windows Server 2008 (x86 and x64) - Windows Vista (x86 and x64) - Windows XP (x86, x64, Itanium 2, and AMD-64) - Windows Server 2003 (x86, x64, Itanium 2, and AMD-64) - Windows 2000 and NT (x86)
Macintosh	Mac OS X 10.2, 10.3, 10.4, 10.5, 10.6, 10.7 (Lion), and 10.8 (Mountain Lion)
Linux	- Red Hat Enterprise Linux 4 and 5 (x86, x64, Itanium 2, and AMD-64) - Red Hat Enterprise Linux 6.2 (x86 and x64) and 6.3 (x86 and x64) - SUSE Linux 9, 10, 11, 12.1 (x86 and x64), and 12.2 (x86 and x64) - Linux on zSeries - Linux PPC (x64) - Ubuntu 9.10, 10.10, 11.4, 11.10, 12.04 (x86 and x64), and 12.10 (x86 and x64) - Fedora 13, 14, 15, 16, and 17

Item	Description	
	Solaris	• Solaris 11 (x86 and SPARC)
		• Solaris 9, 10 (x86, SPARC, and AMD-64)
Operating System (continued)	**HP-UX**	HP-UX 11i (Itanium 2 and PA-RISC)
	AIX	AIX 5.2, 5.3, 6.1, and 7.1 (Power/PowerPC)
	IBM	• 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	• FreeBSD
		• Other Linux and Unix operating systems (POSIX-compliant shell required)

Virtual Appliances

Starting with InstallAnywhere 2012, InstallAnywhere supports the creation of virtual appliances that run on VMware vSphere 5 and Amazon EC2 hypervisors.

- System Requirements for Building and Auto-Deploying Virtual Appliances

- System Requirements for Building VM Templates

System Requirements for Building and Auto-Deploying Virtual Appliances

The following table lists the system requirements for building and auto-deploying virtual appliances:

Hypervisor	Category	Requirements
VMware vSphere 5/ vCenter	VMware vSphere 5 Credentials	Credentials to a VMware vSphere 5 Server.
	VMware vCenter Credentials	If your VMware vSphere 5 Server is managed by a VMware vCenter 5 Server, then the credentials to the VMware vCenter Server are also required. *Note • A VMware vSphere 5 virtual appliance is deployable on:* • *Licensed VMware vSphere 5 Server (Standalone)* • *Licensed VMware vSphere 5 Server managed by a licensed VMware vCenter 5 Server*
	Host Machine	Credentials to a physical/virtual machine which closely resembles the virtual appliance operating system.
	VM Template	VM template, created using InstallAnywhere, of one of the following operating systems: • Ubuntu 11.10 (Oneiric Ocelot) 32-bit • Ubuntu 12.04 (Precise Pangolin) 32-bit • CentOS 6.2 and 6.3 32-bit The root user credentials to the VM template are also required. *Note • See System Requirements for Building VM Templates.*

Hypervisor	Category	Requirements
Amazon EC2	**Amazon EC2 Credentials**	Account Number, Access Key, Secret Key, X.509 Certificate, and Private Key associated with your Amazon EC2 Account.
	Host Machine	Credentials to a physical/virtual machine which closely resembles the virtual appliance operating system.
	VM Template	VM template, created using InstallAnywhere, of one of the following operating systems: ● Ubuntu 11.10 (Oneiric Ocelot) 32-bit ● Ubuntu 12.04 (Precise Pangolin) 32-bit The root user credentials to the VM template are also required. *Note • See System Requirements for Building VM Templates.*

Operating System Requirements

If there are operating system packages specified for installation on either type of virtual appliance, then one of the following is to be provided:

● Internet connection to enable download and installation of packages.

● If no Internet connection is available, then a local repository copy of the Ubuntu/CentOS package needs to be created, and the details need to be provided on the **Repository Settings** tab of the **VM Configuration** tab of the **Build Appliances** task.

System Requirements for Building VM Templates

The following table lists the system requirements for building a VM template:

Hypervisor	Operating Systems
VMware vSphere 5/ vCenter	• **VMware vSphere 5 Server credentials**—The credentials should have sufficient privileges to create a VM, power on/off images, copy to/from datastores, and perform inventory operations. • **VMware vCenter Server credentials**—If a VMware vCenter Server is specified, then credentials to a VMware vSphere 5 host managed by this VMware vCenter Server is also required. • **Host machine**—Credentials to a physical/virtual machine which closely resembles the virtual appliance operating system. • **Operating system ISO file**—An ISO file containing the installation of the operating system. • **VMware tools**—Location of a downloaded version of a compatible VMware tools package, which needs to be in `*.tar.gz` format.
Amazon EC2	• **Host machine**—Credentials to a physical/virtual machine which closely resembles the virtual appliance operating system. • **Internet connection**—Optionally, if you want to create a VM template using a cloud image provided by the OS vendors, then an active connection to the Internet is also required.

Note • *When building VM templates, it is recommended that the machine is connected to the Internet to enable the installation of updates to the packages, if available.*

Supported Java Virtual Machines

InstallAnywhere 2012 supports the following Java virtual machines:

Manufacturer	Versions
Sun	1.5.x, 1.6.x, 1.7.x
IBM	1.5.x, 1.6.x, 1.7.x
Apple	1.5.x, 1.6.x
HP	1.5.x, 1.6.x
Oracle	1.7.x

The InstallAnywhere installer installs Java 1.7 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 VM packs, go to http://www.flexerasoftware.com/installanywhere/utilities and open the **VM Packs** tab.

Note • InstallAnywhere installers are not supported on beta or on early access releases of Java.

Known Issues

For a complete list of known issues, see Knowledge Base article Q209992.

Sending Us Feedback

Your feedback is essential to helping us deliver features in InstallAnywhere that meets your needs. Many of the features for InstallAnywhere come directly from the feedback and suggestions that you, the InstallAnywhere developer community, have shared with our engineering and support teams. To provide feedback, see Product Feedback.