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InstallAnywhere 2015
Release Notes

August, 2015

Introduction

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

For the latest information about this release of InstallAnywhere, including updates to these release notes, see the online version of the InstallAnywhere 2015 release notes.

New Features

InstallAnywhere 2015 includes the following new features:

- Ability to Build Docker Images from InstallAnywhere Projects

- Support for Deploying Web Applications to Local or Remote IBM WebSphere Servers

- Expanded Support for Connecting to IBM DB2, Microsoft SQL Server, and PostgreSQL Databases and Running SQL Scripts

- Support for SHA-2 Digital Certificates

- Support for the Latest Platforms

Ability to Build Docker Images from InstallAnywhere Projects

InstallAnywhere Premier Edition with Virtualization and Cloud enables you use your existing InstallAnywhere projects to configure and build Docker images along with your traditional multiplatform installers. You can use the Docker support to prepare your on-premises Web applications for deployment to the cloud and to data centers.

Docker is a platform that enables developers and system administrators to build, distribute, and run applications on physical machines, data center virtual machines, or the cloud; it enables you to separate your applications from your infrastructure. A Docker image is a read-only template that InstallAnywhere can build from your project. A Docker container is launched from a Docker image. A Docker container consists of a complete file system that includes everything that is needed to run—code, system tools, system libraries, and more; it is the run component of the Docker platform.

To enable, configure, and build Docker images, use the new Build Containers view on the Build page in the InstallAnywhere Advanced Designer.

The Build Containers view also enables you to search public and private Docker registries for base images—such as those for Ubuntu, CentOS, Java, and MySQL—and pull them into your Docker images. You can also specify installers that you want to be run on your Docker images.

To customize or further fine-tune the creation of Docker images, advanced users have the ability to edit the Dockerfile—the set of commands that tells the Docker engine how to generate a Docker image—that InstallAnywhere creates as you configure Docker settings in your project; this capability is in the Build Containers view.

Support for Deploying Web Applications to Local or Remote IBM WebSphere Servers

InstallAnywhere Premier Edition offers improvements for deploying Web applications (.ear or .war) to IBM WebSphere servers.

Enabling End Users to Specify Connection Information for WebSphere Servers

Now you can add to your projects run-time panels or consoles that enable end users to specify settings for WebSphere servers before deploying Web applications to these servers. For example, you can let end users specify information such as the local or remote WebSphere server host where they want to deploy the Web application.

To add the new run-time panels to a project, add the WebSphere Runtime Deployment panel or console actions. These actions are available for the Pre-Install view on the Sequence page in the InstallAnywhere Advanced Designer.

By default, these new run-time panels and consoles use variables such as $WEBSPHERE_DEPLOYMENT_OPTION$ and $WEBSPHERE_HOSTNAME$ for storing the values that end users enter.

IBM WebSphere 7, 8, and 8.5 Support

InstallAnywhere now has support for deploying Web applications to WebSphere 7, 8, and 8.5 servers.

Expanded Support for Connecting to IBM DB2, Microsoft SQL Server, and PostgreSQL Databases and Running SQL Scripts

InstallAnywhere Premier Edition offers several improvements for connecting to IBM DB2, Microsoft SQL Server, and PostgreSQL databases and running SQL scripts.

Enabling End Users to Specify Connection Information for Local and Remote Servers

Now you can add to your projects run-time panels or consoles that enable end users to specify connection information such as the name of the local or remote server, as well as the credentials that should be used to connect to the server through server authentication. In addition, you can optionally enable end users to test the connection information that they entered.

To add the new run-time panels and consoles to a project, add the Choose Database Connection panel or console actions. These actions are available for the Pre-Install view on the Sequence page in the InstallAnywhere Advanced Designer.

By default, these new run-time panels and consoles use variables such as $DB_NAME_VARIABLE$ and $DB_SERVERHOST_VARIABLE$ for storing the values that end users enter.

Support for Creating Databases on Target Systems

The Run SQL Script action now optionally supports the creation of Microsoft SQL Server and PostgreSQL databases on target systems. The Properties Customizer that is displayed when you select this action in the Install view on the Sequence page has a Create Database check box that you can use to indicate whether to create the database at run time.

IBM DB2 10.1 and 10.5 Support

InstallAnywhere now has support for managing IBM DB2 10.1 and 10.5 databases, as well as IBM DB2 9.0 and 9.7 databases.

Microsoft SQL Server 2008 R2, 2012, and 2014 Support

InstallAnywhere now has support for managing Microsoft SQL Server 2008 R2, 2012, and 2014 databases.

Support for SHA-2 Digital Certificates

InstallAnywhere now enables you to use digital certificates that use the SHA-2 hashing algorithm for signing your Windows-based installers (the installer .exe file, as well as the installer launcher and the uninstaller launcher) at build time.

SHA-256 is favored over SHA-1, which is being deprecated because of the potential for security vulnerabilities. Microsoft announced that Windows will stop trusting items that were signed and timestamped with SHA-1 certificates after January 1, 2016. In addition, certification authorities-the organizations that issue certificates-are phasing out the creation of SHA-1 certificates. Thus, it is recommended that you replace any SHA-1 certificates in your InstallAnywhere projects with SHA-2 certificates. For the latest information and more specific details, check with your certification authority.

If your project is configured to sign with a SHA-2 certificate, InstallAnywhere uses a SHA-2 hash in the signature of the files that it signs at build time. If your project is configured to sign with a SHA-1 certificate, InstallAnywhere generates a build error: either 813 (a SHA-1 certificate is configured in the project) or 814 (a SHA-1 certificate is configured in the project and a timestamp server is not being used for signing).

This feature resolves issue IOJ-1722004.

Support for the Latest Platforms

InstallAnywhere now supports the following platforms for running installer run-time environment, as well as for the InstallAnywhere the authoring environment:

- Windows 10 (x86 and x64)
- Red Hat Enterprise Linux 7.1 (desktop edition; x64)
- Red Hat Enterprise Linux 7 (zSeries)
- OpenSUSE Linux 13.2 (desktop edition; x64)
- SUSE Linux Enterprise 12 (server edition; x64)

- Ubuntu 15.04 (desktop and server editions; x64)

- Ubuntu 14.10 (desktop and server editions; x64)

- Fedora 20 (desktop edition; x64)

Enhancements

Support for Transparent Backgrounds on UI Panels

InstallAnywhere now enables you to make the main body area of each panel in the user interface of your installer transparent. Previously, this area behind the main UI text was always white.

To specify that you want the main body area to be transparent, select the new No Color option in the Inner Panel Background Color setting. To access this setting, on the Installer UI page, click the Look & Feel Settings view. Then, in the General UI Settings area, under the Installer Frame setting, the Inner Panel Background Color setting is available with the new option.

Ability to Change the Text Color of the Installer Steps That the Installer UI Shows for Progress

InstallAnywhere now enables you to customize the font color that is used to display the text of the installer steps that is included on the left side of the installer user interface.

To specify the color, use the Look & Feel Settings view on the Installer UI page. In the List of Labels for Installer Steps setting, click the Installer Step Label settings button; the Installer Steps dialog box opens. On this dialog box, click the Icons and Fonts button. The Choose Label Settings dialog box opens. To change the font color of the text for the installer steps, click the Font Color button.

Enhanced Show Message Dialog Action

The Show Message Dialog action has been enhanced. One of the new settings that you can configure for this Pre-Install action is a check box called Cancel and Exit on ESC or X. If you want the installer to cancel and exit the installation if the end user presses the Escape button or clicks the Close button (X) on the message dialog, select this check box.

This check box is cleared by default.

This enhancement resolves issue IOC-000087766.

Important Information

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 Flexera Software 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.

InstallAnywhere Premier Edition with Cloud Pack Renamed

InstallAnywhere Premier Edition with Cloud Pack has been renamed to InstallAnywhere Premier Edition with Virtualization and Cloud.

Project Upgrade Alerts

The following information describes possible upgrade issues that may occur when you upgrade projects that were created with InstallAnywhere 2014 and earlier to InstallAnywhere 2015. It also alerts you to possible changes in behavior that you may notice between new InstallAnywhere 2015 projects and projects that are upgraded from InstallAnywhere 2014 or earlier to InstallAnywhere 2015.

Database Server Support for Microsoft SQL Server and IBM DB2

If you have an InstallAnywhere 2014 or earlier project that contains a Microsoft SQL Server or IBM DB2 or database server host and you open the project in InstallAnywhere 2015, InstallAnywhere displays a warning and informs you that may need to make changes to incorporate the new run-time panel action that lets end users specify connection information. To learn more, see "Enabling End Users to Specify Database Connection Information" in the InstallAnywhere Help Library.

InstallAnywhere no longer has support for the following versions of Microsoft SQL Server:

- Microsoft SQL Server 6.5

- Microsoft SQL Server 7.0

- Microsoft SQL Server 2000

- Microsoft SQL Server 2005

InstallAnywhere supports Microsoft SQL Server 2008 R2, 2012, and 2014 databases.

Removal of InstallAnywhere Collaboration Support

All support for the InstallAnywhere Collaboration plug-in and DIM references has been removed from InstallAnywhere. That is, the DIM References view and the DIM-related actions (the Create DIM Reference action and the Create Alias, Link, Shortcut to DIM File action) are no longer be available in InstallAnywhere. It will no longer be possible to build installers that reference DIM files. If you upgrade a project that contains DIM references or DIM actions from InstallAnywhere 2014 or earlier to InstallAnywhere 2015, InstallAnywhere 2015 removes them from your project.

It is recommended that before upgrading a project with DIM support to InstallAnywhere 2015, all DIM references and DIM-related actions be removed from InstallAnywhere projects and replaced with standard files and actions where appropriate

Resolved Issues

The following issues have been resolved in InstallAnywhere 2015.

Issue Number	Issue Summary
IOJ-1733575	When using an authenticated installer with OS X code signing, the uninstaller is now digitally signed during the build process resulting in the digitally signed installer to no longer fail during the build process.
IOJ-1732318	FlexNet Publisher only found one host ID on a Macintosh OS X operating system that had multiple NICs. To address this issue, the FlexNet Publisher libraries in InstallAnywhere were updated from version 11.7 to 11.13.
IOJ-1730202	When the target application is launched with graphical LaunchAnywhere launcher on OS X, the current working directory for Java now uses the correct Java system property user.dir location where the LaunchAnywhere launcher was installed.
IOJ-1729098	Check System Architecture Rule no longer fails when installer is run on Solaris SunOS using Java 8.
IOJ-1727851	In addition to the -? option that is used to display help text, the help menu now also includes the -h, -help, and -help options to "show this help text" as well.
IOJ-1727151	When a file is encoded to UTF-8 using the File Encoding field of the Modify Text File action, the resulting file no longer corrupts certain characters.
IOJ-1726869	Installer on longer hangs when looping Custom Code Actions are included. Previously, the Cancel, Previous, Next, and other buttons become unresponsive and not clickable on the Choose Install Folder Panel.
IOJ-1726319	The Java 8 VM Pack download for Solaris Intel on our website is now correctly pointing to the correct download.
IOJ-1726038	Mac OS X Installer created with InstallAnywhere 2014 SP1 that failed to launch on 10.7.5 OS X has been fixed.
IOJ-1725192, IOJ-1724404	The Expand Archive (TAR) Existing Archive action successfully expands an archive that is present on the target system.
IOJ-1723159	Native dialog text entry hook added within custom code for OS X authenticated installers. As background, InstallAnywhere provides controls that call into the necessary native dialog on OS X to allow text entry. These the controls have been updated to cover all of the controls needed by IBM to allow them to call our native input dialog.

Issue Number	Issue Summary
IOJ-1722811	Create JRE VM Pack utility has been fixed to successfully create a valid Solaris VM Pack on Windows and Linux.
IOJ-1722131	Installer fixed to correctly create response file in the directory where install.exe is present when the Output Debug Information action is present in the post-install sequence.
IOJ-1722004	Support added for digitally signing installers for Windows with SHA-2 digital certificates.
IOJ-1720624	Ability to assign a custom ICO icon added even if it is not directly present inside IA_PROJECT_DIR directory.
IOJ-1719686	Installations bundled with Java 8 32-bit fixed to uninstall correctly on Windows 8/8.1 machines.
IOJ-1719413	When a valid copy of system unzip command is not found in PATH the installer now displays "Invalid unzip command found" error message.
IOJ-1719158	In cases where the Preserve Timestamp project setting is used, the file timestamp for files is no longer incorrectly updated to the current timestamp after running repair operation. The timestamp for the installed files after installation and before repair are the same as after the repair.
IOJ-1718993	Advanced Designer Interface can now be resized.
IOJ-1718702	The uninstaller directory and uninstaller.properties file are now removed by the uninstaller.
IOJ-1718393	You can now to copy/paste the Find File/Folder panel.
IOJ-1667147	In case of updated installation, the local registry no longer writes duplicate entries of an installed file and instead only keeps one entry for a specific file.
IOJ-1666388	When running installer with version 1.6 JVM, the installation now correctly installs the uninstaller.jar file and completes without errors.
IOJ-1664319	LaunchAnywhere launcher for java application is now able to find a file present in a relative path when using Graphical Launcher.
IOJ-1664233	When using the Choose Install Sets: Features Only panel with a feature with a rule applied, there is no longer a loss of scope of selected features. The feature will now install and uninstall without issue.
IOJ-1662547	When calling Abort Installation in cases where the installer is configured to generate a log file, the installer now successfully exits.

Issue Number	Issue Summary
IOJ-1662464	When using Java 7, the installed LaunchAnywhere launcher for the installed application on Mac OS X now successfully finds and loads the native libraries.
IOJ-1661818	The message displayed in the Get User Input panel is now aligned from right-to-left when the installation is done in Arabic and Hebrew locale. The Title of the panel is also aligned right-to-left.
IOJ-1660026	Fix implemented so that if there is an empty action group within either the pre- and post-install phase, it will always be possible to remove or add Installer Step Labels.
IOJ-1563455	If a standard user runs an installer configured to write log files to a location under the Program Files or Program Files (x86) directory location, the installer now skips writing the log and notifies of the failure to write a log.
IOJ-1563412	When "PREVIOUS jump action" is included in a project file and executed in console mode in the pre-install phase, the "Installing" progress message is now displayed only once when the installation happens with valid inputs and the Jump action is executed and the installation is moved to the previous step.
IOJ-1563325	Java application launched using graphical LaunchAnywhere can now write to relative file paths on Mac OS X. Relative paths will now behave the same regardless of the execution method.
IOJ-1563323	The VM Pack Utility now creates a VM Pack for 64-bit Windows that has the vm.platform.flavor property value set to win64, not win32. The VM Pack is displayed in the dropdown menu of bundled VM Pack options for a Pure 64-bit Windows Build Target.
IOJ-1563288	Java 7 powered installers fixed to launch correctly at "Forking Java" step on Solaris 11 under multiple locales.
IOJ-1563225	When adding "Chinese - Simplified" as a supported locale, the Choose Locale and Choose Locale By Number String Text has been fixed to be localized to "Chinese - Simplified" on Console Panel.
IOJ-1563163	The Install Set Panel no longer shows a grey background in the checkbox labels.
IOJ-1563042	"Window name no longer being displayed with the title "LAX" for the Advanced Designer or generated installers in instances where it should be either "InstallAnywhere," a customer selected icon, or whatever is configured in the project for Product Name.

Issue Number	Issue Summary
IOJ-1563040	Maximum heap space has been fixed to be set to the value entered in project on Linux/AIX.
IOJ-1562908	When using multiple Execute Batch actions, if the initial batch file becomes locked on a subsequent action, the newly created batch file will be run after being created.
IOJ-1562899	When using the Execute Command action to call MsiExec, spaces have been removed from after their optional parameters "=" character, resulting in the command being correctly run exactly as entered into the action.
IOJ-1562898	When creating a French locale (fr) installer, systems that are set to a French Canadian locale (fr_ca) properly fallback to French when a French Canadian bundle is not available but a general French bundle is available.
IOJ-1562800	Fix has been applied to ensure that values set in the parent installer's module panel for a dynamic merge module persist even after rebuilding the module. As background, the problem previously revolved around dynamic merge module variable advertisement and setting values from the parent installer. When the same variable was advertised in both the install phase and the post install phase, the default value from the module overwrote the install phase parent value on every module build.
IOJ-1562442	Text wraparound no longer occurring in the Pre-Install Summary panel during install. The text now fits on the same line and fits regardless of what JVM being used.
IOJ-1562401	You can now set the installer icon using the Project Automation API (Installer UI > Look & Feel > Installer Icon).
IOJ-1562170	On Mac OS X, when installing an installer which includes a merge module, a Fatal Application Error no longer occurs at the end of the merge module installation. Both parent and merge modules are installed.
IOJ-1561880	The installation development environment is now clearly displaying rules in the Organization > Features view.
IOJ-1561755	Show Message Dialog close button now correctly forces user to exit installer and not allow user to continue and complete installation.
IOJ-1561440	All documented command line switches to the command line builder are included in the output. Previously, the command "'build.exe /?" did not print all available options to the console.
IOJ-1561250	Installer no longer throws "ZeroGcz: No zip file found for entry" exception if moving and building the project from a new folder when assigning an icon file to the shortcut action and there is no missing resource error at build time.

Issue Number	Issue Summary
IOJ-1560925	Disk Space Check now gathers correct free space in instances when USER_INSTALL_DIR contains the same path as a mount point with insufficient space but is set to a path that would not install to that mount point.
IOJ-1559731	When DISPLAY environment variable is set to empty string, uninstaller creation is now successful when a Get User Input GUI Panel is added.
IOJ-1559551	Source Paths from environment variable are now detected on Mac OS X. The source path is set automatically under preferences in InstallAnywhere.
IOJ-1558266	The Check File/Folder Attributes rule has been fixed to work as expected if set to check if a file/folder exists and is a folder or if the folder does not exist prior to the installer starting but is created during the installation.
IOJ-1555883	A "null" message is no longer displayed while uninstalling an Installed component through project uninstallation.
IOJ-1554758	An option has been added to change the Java virtual machine heap size at run time.
IOJ-1554525	All the strings of the "Install_Log" are now localized at run-time to the locale which user selects from the Splash Screen.
IOJ-1732313	User documentation now explains how to set the initial and maximum JVM heap size for the InstallAnywhere Advanced Designer and build commands.
IOJ-1661055	Documentation now states that only InstallShield Premier Edition supports the use of build time variables and custom source path variables.
IOJ-1721079	Documentation now states that when running an installer (with a UNIX-based platform build target) on a UNIX-based platform, a valid copy of the system unzip command is required for the installer to launch

System Requirements

The following are the system requirements for InstallAnywhere 2015:

- 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

- Supported Hypervisors and Platforms 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	• Windows 10 (x86 and x64) • Windows 8.1 (x86 and x64) • Windows Server 2012 R2 (x64) • Windows 8 (x86 and x64) • Windows Server 2012 (x64) • Windows 7 (x86 and x64) • Windows Server 2008 R2 (x64) • Windows Vista • Windows Server 2008 (x86 and x64)
Apple	• OS X Yosemite (10.10) with Oracle Java 7 or 8 • OS X Mavericks (10.9.2) with Oracle Java 7 or 8 • OS X Mountain Lion (10.8) with Oracle Java 7 or 8 • OS X Lion (10.7.3) with Oracle Java 7
Linux	• 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 Linux 11.x, 12.x and 13.1 (x86 and x64) • SUSE Linux Enterprise 11 (SP2 and SP3; x64) and 12 (x64) • Linux PPC 64-bit (build time only) only with Java 6 • Ubuntu 15.01 (x64) • Ubuntu 14.x (x64) • Ubuntu 13.x (desktop and server editions; x86 and x64) • Ubuntu 10.x, 11.x, and 12.x (x86 and x64) • Fedora 18, 19 and 20 (desktop editions; x64) *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)

Installers can be built from any supported authoring platform for any other supported target platform or language. Localizations for 31 languages are included with Premier Edition. Localizations for 9 languages are included with Professional Edition.

Requirements for Docker Images

Support for building Docker images from InstallAnywhere 2015 when Docker is installed on the platforms below.

Item	Description		
Docker Version Supported	Docker 1.7.1		
Platforms	**Windows**	●	Windows7
	Linux	●	Ubuntu 14.10
		●	Red Hat Enterprise Linux 7.1
		●	CentOS 7.1
	Apple	●	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	- Windows 10 (x86 and x64) - Windows 8.1 (x86 and x64) - Windows Server 2012 R2 (x64) - Windows 8 (x86 and x64) - Windows Server 2012 (x64) - Windows 7 (x86 and x64) - Windows Server 2008 R2 (x64) - Windows Vista (x86 and x64) - Windows Server 2008 (x86 and x64) - Windows XP (x86, x64, Itanium 2, and AMD-64) - Windows Server 2003 (x86, x64, Itanium 2, and AMD-64) Windows-based target systems must also support the SSE2 instruction set.
Apple	- OS X Yosemite (10.10) with Oracle Java 7 or 8 - OS X Mavericks (10.9.2) with Oracle Java 7 or 8 - OS X Mountain Lion (10.8) with Oracle Java 7 or 8 - OS X Lion (10.7.3) with Oracle Java 7
Linux	- 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 (x86, x64, Itanium 2, and AMD-64) - OpenSUSE Linux 11.x, 12.x and 13.1 (x86 and x64) - SUSE Linux Enterprise 11 (SP2 and SP3; x64) and 12 (x64) - 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 Linux 7.1 PPC Little Indian (silent and console mode only) - Ubuntu 15.01 (x64) - Ubuntu 14.x (x64) - Ubuntu 13.x (desktop and server editions; x86 and x64) - Ubuntu 9.x, 10.x, 11.x, 12.x (x86 and x64) - Fedora 17, 18, 19 and 20 (desktop editions; x64)
Solaris	- Solaris 11 (x86 and SPARC) - Solaris 9, 10 (x86, SPARC, and AMD-64)

Operating System	Supported Versions
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)

Supported Java Virtual Machines

InstallAnywhere supports the following Java virtual machines:

Manufacturer	Supported Versions
Sun	1.6.x, 1.7.x
IBM	1.6.x, 1.7.x, 1.8.x
HP	1.6.x, 1.7.x
Oracle	1.7.x, 1.8.x

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 http://www.flexerasoftware.com/ installanywhere/utilities and click the VM Packs tab.

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	- 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	- 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	• 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 13.04 (x86 and x64) • Ubuntu 12.10 (x86 and x64) • Ubuntu 12.04 (x86 and x64) • Ubuntu 11.10 (x86 and x64)
Amazon EC2	• Ubuntu 11.10 (x32) • Ubuntu 12.04 (x32)

Known Issues

For a list of known issues, see the InstallAnywhere 2015 Known Issues knowledge base article.

Legal Information

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