

Aras DevOps Release 1.1

Release Notes

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1 Platform Support Matrix

For the software required for the Aras DevOps Release 1.1:

Component	Release
Aras Innovator MSI Deployment	Release 17 Release 20 Release 21 Release 23 Release 24 Release 25 Release 27
Aras Innovator AICD Deployment	Release 24 Release 27
Aras DevOps Infrastructure	1.1.0.7439

2 Enhancements, Fixed Issues, and Known Issues

2.1 Enhancements in Aras DevOps Release 1.1

2.1.1 Introduce Support for Innovator Release 27 on AICD

This release of Aras DevOps introduces support for Aras Innovator release 27 on AICD.

2.1.2 CodeTree Commit Requirement Changes in Customer Repository

Customizers can now only commit the customized code tree files to the repository in Aras DevOps instead of being required to commit the entire Aras Innovator Code Tree. This enhances cloning the repository locally and simplifies updating Aras Innovator releases. A dedicated folder called CodeTree is available in the repository for storing the modified code tree files as opposed to the root of the repository in previous releases.

Though the code tree baseline is not automatically downloaded, users can download this from the feed.

The Deployment package contains all code tree files in the repository, and a code tree delta deployment package is no longer built when deploying locally.

When updating the service to this new version, a migration logic in `upgrade.ps1` is created to move the code tree files in existing customer work repositories.

2.1.3 Baseline Aras Docker Images for Deployment

Baseline docker images of Aras Innovator are now built, released, and maintained. These images are now used as baselines for project implementations.

Utilizing baseline docker images speeds up and simplifies the start of projects as the initial build of the docker images is no longer required.

2.1.4 Support of AICD for Aras Enterprise Offering

The first technical implementation of our Enterprise SaaS offering (internally called SaaS 1.0) is based on Virtual Machine deployment. The customers who have an Aras Enterprise subscription are all using this approach for now.

A second technical implementation of our Enterprise SaaS offering (internally called SaaS 2.0), relying on Kubernetes and container technology, is enabled by the release of this service.

This version of the service enables the use of container deployment of Aras with a restricted list of Aras Innovator versions (See Support Matrix). It means that the services delivered by Aras (Build, SIT Deployment, UAT Deployment and Production Deployment) can now use this container-based approach.

Note that the customizations of Aras Innovator and related development activities still happen on a developer's local machine and rely on standard MSI versions of Aras Innovator.

2.1.5 Deployment of AICD Available for UAT Environment

The deployment to UAT (User Acceptance Testing) environment is enabled with the Deploy Innovator pipeline.

Access to this pipeline is restricted with a Personal Access Token (PAT) and is intended to be available for internal purposes only.

Users can select the name and the version of the Deployment package that needs to be deployed, and the deployment strategy. The two available options for the deployment strategy are "Deploy" and "Update" that allow deployment on top of the baseline database or on top of the existing database, respectively.

2.1.6 Deployment of AICD Available for Production Environment

The deployment to Production instance is enabled through the Deploy Innovator pipeline.

The access to this pipeline is restricted with Personal Access Token (PAT) and is intended to be available for internal Aras people only.

Users can select the name and the version of the Deployment package that needs to be deployed, and the deployment strategy. The two available options for deployment strategy are "Deploy" and "Update" that allow deployment on top of the baseline database or on top of the existing database, respectively.

2.1.7 Added Support for Configuration Transformations for AICD

The modification of Configuration Files is managed from the customer repository using the config transformation functionality.

If the development team wishes to modify these configuration files, the configuration transformation files must be used, which are XDT transformations that are committed in the repository.

This functionality is now fully compatible with AICD.

2.1.8 Pipeline to Apply Hotfixes is Available

Users can roll out hotfixes with a faster pipeline than the standard Deploy Innovator pipeline.

The access to this pipeline is restricted with a Personal Access Token (PAT) and is intended to be available for internal purposes only.

2.2 Fixed Issues in Aras DevOps Release 1.1

Issue #	Description
F-006894	Added support for Configuration Transformations for AICD.
F-007005, F-007535	The deployment to UAT (User Acceptance Testing) environment is enabled with the Deploy Innovator pipeline.
F-007130, F-007609	CodeTree Commit requirement changes in the customer repository have been implemented.
F-007254	The deployment to Production instance is enabled through the Deploy Innovator pipeline.
F-007603	Baseline docker images of Aras Innovator are now built, released, and maintained. These images are now used as baselines for project implementations.

Issue #	Description
F-007640	Pipeline to apply hotfixes is available.
F-007722	Introduce support for Aras Innovator release 27 on AICD.
I-008217	An error message has been added for when the IIS setup fails due to long application pool names.
I-051008	The 7-Zip.CommandLine is updated to version 21.07 which includes several bug fixes.
I-052676	A warning message has been added for when the local machine setup fails due to unsupported Choco versions.

2.3 Known Issues in Aras DevOps Release 1.1

Issue #	Description	Workaround
I-058183	<p>An "Access is denied" error can be fixed by opening two ports and requires WMI fixed port configuration.</p> <p>The following errors can occur during Deployment to Virtual Machine (VM):</p> <ul style="list-style-type: none"> - Cannot recycle Application Pool: 'System.UnauthorizedAccessException: Access is denied. - 'System.Runtime.InteropServices.COMException (0x800706BA): The RPC server is unavailable. <p>These errors can occur when Aras Deployment Tool (ADT) cannot establish WMI connection from Deploy VM to Instances VM to work with Application Pools. This connection is necessary to apply customizations such as configuration files and dll-s. To finish the updates, it is necessary to reset App Pool which requires ports to be opened on the Instances VM to reset App Pools from the Deploy VM.</p>	

<p>I-058395</p>	<p>In the Local Development Environment, the BuildAndDeploy.ps1 fails on the install step of Visual Studio 2022 Build Tools when there is a pre-existing installation of Visual Studio Build Tools.</p>	<ol style="list-style-type: none"> 1. Uninstall Visual Studio Installer and all build tools with their dependencies. <ul style="list-style-type: none"> > choco uninstall visualstudio2019-workload-webbuildtools > choco uninstall visualstudio2019-workload-databuildtools > choco uninstall visualstudio2019buildtools > choco uninstall visualstudio2022buildtools > choco uninstall visualstudio-installer 2. Reset Powershell session. 3. Run the script again and let the tool install everything it needs: <pre>Import-Module Aras.DevOps Install-BuildMachinePrerequisites -InnovatorVersion <version></pre> 4. In case the problem is not resolved by following the steps above, or the choco packages are not installed in the first place, download visual studio installer (if not already installed) and perform the following steps: <ol style="list-style-type: none"> a. Open Visual Studio Installer, for both 2022 and 2019 versions, export the configuration separately to dedicated files. The export option is under the More button. These files will be modified and re-imported. b. Open a Powershell terminal and run> explorer (join-Path (Get-Module Aras.DevOps).Path "\resources") c. For reference, open vsbuildtools2019.vsconfig file in your text editor. DO NOT Modify the file. Edit the 2019 configuration exported in step 4 a, to remove all components listed in the vsconfig file.
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Issue #	Description	Workaround
		<p>d. Import 2019 configuration back into the Visual Studio Installer, by clicking on "More" and selecting "Import configuration."</p> <p>e. Perform steps 3 & 4 for the 2022 version of visual studio, using vsbuildtools2022.vsconfig file.</p> <p>Note: If only one of the two versions above exists, perform the steps only for that version.</p>
I-058882	First run of ContinuousIntegration.ps1 fails with the "Cannot commit configuration changes because the file has changed on disk" error message.	BuildAndDeploy.ps1 should be executed before ContinuousIntegration.ps1.
I-058883	In the Local Development Environment, ContinuousIntegration.ps1 fails if using Aras Innovator Container Deployment in Aras Enterprise and displays the following error: <The sp_configure value "contained database authentication" must be set to 1 in order to restore a contained database. You may need to "RECONFIGURE" to set the value_in_use. RESTORE DATABASE is terminating abnormally>	<p>In the SQL Server on the local machine, enable the contained database authentication option.</p> <p>The option can be enabled by two ways:</p> <ol style="list-style-type: none"> 1. Follow steps in: https://learn.microsoft.com/en-us/sql/database-engine/configure-windows/contained-database-authentication-server-configuration-option?view=sql-server-ver16 2. Configure the option using SQL Server Management Studio properties
I-058890	An error message appears for the namespace deletion in Aras Enterprise while running the RemoveInnovator pipeline.	Rerun the RemoveInnovator pipeline.

Issue #	Description	Workaround
I-059096	<p>When deploying on a local machine, users may see an error message directly from SQL Server that the password validation failed. The error message may look like: "System.Data.SqlClient.SqlException: Password validation failed. The password does not meet the operating system policy requirements because it's too short"</p>	<p>Deployment of Aras Innovator on a user's machine relies on local SQL Server that defines policies for SQL user passwords.</p> <p>Aras uses 2 SQL users named "innovator" and "innovator_regular". Passwords used during deployment are defined in Machine.Settings.include</p> <p>Make sure that both users can log into SQL Server using defined password before launching new deployment.</p>
I-059213	<p>For deployment in containers, it is impossible to deploy a language pack if it tries to update a label of a system property. The following error message will appear: "[owned_by_id] is a system property. You are not allowed to modify system properties."</p>	<p>The language pack needs to be installed and integrated into the baseline. Until this known issue is fixed, please request Aras Global Cloud Services to perform this activity.</p>
I-059829	<p>The Restore-ArasDevOpsPackages will ignore the migration script if the full path is not used.</p> <p>When updating a customer repository to use a new version of the DevOps service, package.config needs to be updated to reference the new version of the nuget packages. Once done, the Restore-ArasDevOpsPackages command has to be run in order to restore packages to the local machine. Then the repo-init command must be run to migrate any repository to the new version.</p>	<p>Use the full path, instead of relative path, to the local machine's work repository as the parameter to the Restore-ArasDevOpsPackages command, example: "Restore-ArasDevOpsPackages C:__WORK\git\cust\MadeUpCompanyName\Work"</p>
I-059899	<p>When an existing project moves to a container-based deployment, it is possible that the initial repository contains some modified configuration files. In this case, the deployment will not be successful.</p>	<p>A customer repository should not contain any configuration files.</p> <p>The modifications to configuration files that might be required in the context of a project needs be described using Config Transformations feature available with the service.</p>

