

# **Aras DevOps 1.10**

## **Release Notes**

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# 1 Platform Support Matrix

For the software required for the Aras DevOps Release 1.10:

Component	Release
Aras Innovator MSI Deployment	Release 17
	Release 20
	Release 21
	Release 23
	Release 24
	Release 25
	Release 26
	Release 27
	Release 28
	Release 29
	Release 30
	Release 31
	Release 32
	Release 33
Release 34	
Release 35	
Aras Innovator AICD Deployment	Release 27
	Release 28
	Release 29
	Release 30
	Release 31
	Release 32
	Release 33
	Release 34
Release 35	

This contains release information about the current Build Number:

Release	Build Number
Build and Deployment Services 1.10	1.10.0.31447

## 2 Key Enhancements, Fixed Issues, and Known Issues

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### 2.1 Key Enhancements in Aras DevOps Release 1.10

#### 2.1.1 Validation for containerized deployment compatibility is enabled

The Continuous Integration (CI) pipeline has been enhanced with a cross compatibility analyzer, which validates whether customizations developed in the Local Development Environment are compatible with Aras Innovator Containerized Deployments.

Continuous Integration pipeline will have warnings in logs in case of incompatibility between Local Development Environment and Standard Development Environment, for example in situations when incorrect URL case could lead to case-sensitivity issues.

#### 2.1.2 AML Import performance improvements in Aras DevOps pipelines

To optimize the efficiency of Continuous Integration and Deploy pipelines, the AML import process has been switched to operate in batch mode. Instead of importing AMLs one by one, groups of AMLs are now processed concurrently. This change significantly reduces the time required to apply AMLs during pipeline execution, resulting in faster build and deployment cycles.

#### 2.1.3 Collect more than one error during AML import

To enhance the efficiency of analyzing Continuous Integration and Deployment (CI/CD) pipelines, the AML import step has been improved to capture multiple errors instead of stopping at the first one. The process now proceeds through all validations, logging every error it encounters. This enables developers to identify and address multiple issues within a single pipeline execution.

#### 2.1.4 Allow to update Aras Innovator in Local Development Environment

To speed up development and avoid executing unnecessary steps in BuildAndDeploy.ps1, new parameters for BuildAndDeploy.ps1 have been introduced to support partial deployment.

To update the existing Aras Innovator instance without removing old one and deploying a new one from scratch, you can use one of following parameters:

- UpdateInstance
- UpdateAMLOnly
- UpdateCodeTreeOnly
- UpdateConfigurationOnly

Additionally, machine prerequisites validation of BuildAndDeploy.ps1 can be skipped using the "-SkipPrerequisites" parameter.

### 2.1.5 Allow to use custom Build Validation rules for custom branches

To give Aras DevOps users more flexibility and control over CI\CD process, it is now possible to define custom Build Validation rules for custom branches. It will allow to have custom set of pipelines required to pass on Pull Request to the custom branch or even remove Build Validation rule for custom branch if necessary.

CI pipeline is automatically triggered when there are changes to the following branches: development, sit, uat, or prod, or when a Pull Request is targeted to any of them.

Documentation has been updated with instructions on how to configure and use these rules effectively.

## 2.2 Fixed Issues in Aras DevOps Release 1.10

Issue #	Description
F-008406	The Continuous Integration pipeline now contains warnings when customizations may be incompatible with Aras Innovator Containerized Deployment, helping to proactively identify and resolve issues related to differences between Local Development Environment and Standard Development Environment.
F-008717	The AML import process in Continuous Integration and Deploy pipelines now collects and displays all encountered errors instead of stopping at the first one. This change provides a more comprehensive error overview and eliminates the need to rerun pipelines multiple times to uncover subsequent issues.
F-008982	CI pipeline now supports custom Build Validation rules for custom branches, enabling more flexible validation workflows.
F-008997	Previously, updating an existing Aras Innovator instance on Local Development Environment required a full redeployment from scratch, which was inefficient. With the new parameters, specific customization types can now be updated independently, significantly improving the speed and flexibility of the development workflow.
F-009006	The Continuous Integration and Deploy pipelines have been improved by transitioning from sequential to batch mode AML import. This enhancement streamlines the process, reducing the apply AML stage duration and improves overall pipeline efficiency.
I-073920	Aras.DevOps PowerShell cmdlets no longer install .NET Core 2 and 3 modules when Aras Innovator release 27 or higher is used, reducing legacy dependencies and aligning with current platform standards.
I-074187	The Continuous Integration pipeline no longer fails when "AuthenticateWithPasswordHash" setting is set to "false" in the appsettings.json transformation of the Innovator Server.
I-074361	The Generate Baseline Pipeline does not fail anymore due to "OutOfMemoryException" error when AML customizations are added. The problem led to incomplete or missing backup artifacts, and a broken deployment state.

## 2.3 Known Issues in Aras DevOps Release 1.10

Issue #	Description	Workaround
I-050998	<p>When a user executes The Get-ArasDevopsPackagesList of the Powershell module, only the latest versions are displayed for IOM and InnovatorConfigs. It should display this package's latest version of the current Innovator version.</p>	<p>The commandlet was originally created due to nuget.exe failure to display upstream package versions when listing. Standard Find-Package is capable of properly listing packages and this commandlet is not needed anymore. Get-ArasDevopsPackagesList command is therefore obsolete and will be deprecated.</p>
I-058395	<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"> <li>1. Uninstall Visual Studio Installer and all build tools with their dependencies. <ul style="list-style-type: none"> <li>&gt; choco uninstall visualstudio2019-workload-webbuildtools</li> <li>&gt; choco uninstall visualstudio2019-workload-databuildtools</li> <li>&gt; choco uninstall visualstudio2019buildtools</li> <li>&gt; choco uninstall visualstudio2022buildtools</li> <li>&gt; choco uninstall visualstudio-installer</li> </ul> </li> <li>2. Reset Powershell session.</li> <li>3. Run the script again and let the tool install everything it needs: <pre>Import-Module Aras.DevOps Install-BuildMachinePrerequisites -InnovatorVersion &lt;version&gt;</pre> </li> <li>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"> <li>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</li> </ol> </li> </ol>

Issue #	Description	Workaround
		<p>button. These files will be modified and re-imported.</p> <ul style="list-style-type: none"> <li>b. Open a Powershell terminal and run&gt; explorer (join-Path (Get-Module Aras.DevOps).Path "\..\resources")</li> <li>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.</li> <li>d. Import 2019 configuration back into the Visual Studio Installer, by clicking on "More" and selecting "Import configuration."</li> <li>e. Perform steps 3 &amp; 4 for the 2022 version of visual studio, using vsbuildtools2022.vsconfig file.</li> </ul> <p>Note: If only one of the two versions above exists, perform the steps only for that version.</p>
I-058883	<p>In the Local Development Environment, ContinuousIntegration.ps1 fails if using Aras Innovator Container Deployment in Aras Enterprise and displays the following error: &lt;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&gt;</p>	<p>In the SQL Server on the local machine, enable the contained database authentication option. The option can be enabled by two ways:</p> <ol style="list-style-type: none"> <li>1. Follow steps in: <a href="https://learn.microsoft.com/en-us/sql/database-engine/configure-windows/contained-database-authentication-server-configuration-option?view=sql-server-ver16">https://learn.microsoft.com/en-us/sql/database-engine/configure-windows/contained-database-authentication-server-configuration-option?view=sql-server-ver16</a></li> <li>2. Configure the option using SQL Server Management Studio properties</li> </ol>
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</p>	<p>Deployment of Aras Innovator on a user's machine relies on local SQL Server that defines policies for SQL user passwords. Aras uses 2 SQL users named "innovator" and "innovator_regular".</p>



Issue #	Description	Workaround
	does not meet the operating system policy requirements because it's too short"	<p>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-059899	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>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>
I-072044	<p><b>Chocolatey Version Update</b></p> <p>In Aras DevOps 1.10, an updated version of Chocolatey is now used to meet enhanced security requirements.</p> <p>Since two versions of Chocolatey cannot run simultaneously on the same machine, users must manually downgrade Chocolatey if they need to work on projects that reference an older version of Aras DevOps.</p>	Manually downgrade the version of Chocolatey.
I-073506	The Generate Baseline pipeline may intermittently fail when used with unpatched Aras Innovator versions lower than Release 32.	Retry the Generate Baseline pipeline execution.