



Data360 Analyze

Release Notes

3.12.0



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1. Setup requirements

	Server	Desktop
System requirements	<p>The minimum hardware specification for the server product is as follows:</p> <ul style="list-style-type: none">• 32GB minimum (Web Server - 12GB, Database server - 8GB, Execution Server - 4GB base + 2GB per core)• Minimum 4 cores for a server instance <div><p>Note: As the number of users and/or the number of scheduled jobs increases, you should look to increase the number of cores and thus memory.</p></div> <ul style="list-style-type: none">• At least two separate drives or partitions:<ul style="list-style-type: none">◦ One for the Data directory.◦ One for temporary execution data.	<p>The minimum hardware specification for the desktop product is as follows:</p> <ul style="list-style-type: none">• 8GB RAM.• Intel Core i5 or 4-core equivalent processor minimum (i7 recommended).

	Server	Desktop
System requirements	<p>For desktop installations and installations on Windows Server, you must install the required Visual C++ Redistributable Packages (choose the x64 variant of the .exe file):</p> <ul style="list-style-type: none"> • Visual C++ Redistributable Packages for Visual Studio 2008 • Visual C++ Redistributable Packages for Visual Studio 2013 <p>For Windows Server installations, you must also install:</p> <ul style="list-style-type: none"> • Visual C++ Redistributable Packages for Visual Studio 2019 <div> <p>Note: The Power R node and the nodes in the Statistical and Predictive Node Pack process data in-memory. Additional RAM will be required when processing data sets with a large volume of data. Similarly, if the R node is used, the machine hosting the R environment must have sufficient available RAM to process the data.</p> </div>	
Supported platforms	<p>The following operating systems are supported on the Data360 Analyze server product:</p> <ul style="list-style-type: none"> • Windows Server Core 2019 • Windows Server 2019 (Desktop Experience) • Windows Server 2016 64-bit (Server with Desktop Experience) • RedHat Enterprise 7.X 64-bit • RedHat Enterprise 8.X 64-bit Requires the <code>libnsl-2.28-151.el8.x86_64</code> RPM package or later, and the <code>compat-libgfortran-48</code> package. <p>The following browsers are supported on both server and desktop:</p> <ul style="list-style-type: none"> • Google Chrome - Latest stable version • Microsoft Edge - New Chromium-based version 	<p>The following operating systems are supported on the Data360 Analyze single-user desktop product:</p> <ul style="list-style-type: none"> • Windows 10 64-bit

	Server	Desktop
App server databases	Postgres	H2
Authentication servers (server only)	<ul style="list-style-type: none"> • Active Directory • OpenLDAP 	N/A
Authentication protocols (server only)	<ul style="list-style-type: none"> • LDAP • LDAPs 	N/A
Single Sign-On (server only)	SAML 2.0	N/A
App servers	Tomcat 9.0.70	

Execution Sandboxing

In order to use the Execution Sandboxing feature, the Analyze server must already have an appropriate container runtime. On Windows, Mirantis Container Runtime (formerly Docker Enterprise) is required to use the Execution Sandboxing feature. Data360 Analyze has been verified on Windows server with the Execution Sandboxing feature against Mirantis Container Runtime version 20.10.9. In order to use the Execution Sandboxing feature on Linux, docker-ce is required. Data360 Analyze has been verified on Linux with the Execution Sandboxing feature against docker-ce version 20.10.17.

2. Latest release - 3.12.0

For information on installing Data360 Analyze, please see the installation guide. Once you are up and running, you can access the integrated product help by clicking the Help button, positioned towards the top right-hand corner of the screen.

The availability of the following new features, enhancements and corrected issues is dependent on the installed edition of the product and licensed features.

2.1 What's new

Save ad-hoc runs of your Data Flow

New collaboration feature, allowing users to save their ad-hoc runs of Data Flows into the Directory and share the results with other Analyze users.

Execution Data Sandboxing on Windows

Issues with the Execution Data Sandboxing feature on Windows have been fixed, such that the feature will now work correctly when Analyze components are installed across different Windows drives. For example: Analyze installed onto an I: drive, the "site" installed onto S: drive, the temporary execution data installed onto T: drive, and the "data" installed onto D: drive. In order to support these fixes, when Execution Sandboxing is enabled on Windows, the file system locations for the data, site, temporary execution and shared data directories in the containers may be different than the locations on the host system. Similarly, the controlling Analyze server that the web application communicates with will be run within a container on windows when execution sandboxing is enabled on Windows.

Security Vault

A new security vault feature has been introduced, allowing users to connect their Analyze instance to an Azure Key Vault to safely store and retrieve both the Analyze database and keystore passwords.

New Code Editor

New code editor available for users when editing code or script on nodes including input field code completion, search, and find and replace.

ADLS List node improvements

New features of the ADLS List node including file type detection and CSV field metadata detection.

Other changes

- Upgraded Apache Tomcat to version 9.0.70
- Configuration changed on Linux such that the latest tag is used in the Dockerfile for retrieving the base image when using execution containers.
- Keeping the docker image used for execution sandboxing up-to date has been made easier with a new `laeConfig` command.

2.2 Corrected issues

Issue summary	Issue number
Fixed a number of help links from various nodes.	LAE-29955
Improved debug logging for network errors when using the HTTP node.	LAE-29810
Fixes an issue whereby the upgrade could fail when run property sets with parent run property sets have been defined in Analyze.	LAE-29775
Fixed an issue where in properties with a File chooser widget, the UI was previously displaying the selected paths with a substitution of the <code>ls.lae.shareRootDir</code> , but persisting the property values with an absolute file path and auto-converting user-typed file paths using that property substitution into an absolute file path.	LAE-29786
Fixes an issue where Analyze could not start up correctly if the user directories specified at installation contained spaces.	LAE-30182
Fixed an issue when generating a Filter node from the Data Viewer where the node would fail when being run.	LAE-30184
Fixes an issue whereby a non-Admin user could not copy and clear a run state for a data flow.	LAE-30191

Issue summary	Issue number
Fixes the unwanted 'Changes that you made may not be saved.' dialog when you refresh the directory page after discarding data flow edits.	LAE-30492
Fixed an issue where, under certain conditions, a failed scheduled Data Flow was not reporting any errors when a user would open the run.	LAE-29583
Fixes bug that prevents data viewer opening when field names contain quotes.	LAE-29797
Fixed an issue with Data Flow properties, where if one was created and had a value and the group it was in was then deleted, it would not show up as an unresolved property.	LAE-29910
Fixes an issue whereby the Analyze Desktop does not start if the JRE_HOME environment variable is set to a Java version other than 11.	LAE-29850
When installing using the multi-user install instructions on Linux, the permissions for the <site-dir>/shared/Public folder were set incorrectly and dataflows were not able to write to the directory.	LAE-29847
Fixes an issue whereby profiling certain columns and certain tables would result in an error in the Detailed Analysis field on the node's detail output: "No value for: 'limitgroups'."	LAE-29978
Fixes an issue whereby the LDAP Authentication Settings are corrupted if the password field is empty when the settings are updated.	LAE-30021
Fixes an issue in the Excel files whereby for XLSX files on some shared network drives, permissions were required for the full path to the file itself and not just the file and its container directory.	LAE-30003
Fixed an issue when upgrading Analyze on Windows, the Tomcat service would not always be removed correctly during the uninstall part of the upgrade.	LAE-29440
Fixed an issue where the system would report an error when a user tried to set a property value to {{^}}	LAE-30173
Added in connection retries to the Database Metadata node when connecting to Azure Synapse, to overcome connection closed issues.	LAE-30014

Issue summary	Issue number
When the webapp is creating temporary files for download (e.g. when using the "Export to CSV" option in the data viewer), these are now created in a temp folder in the site directory on linux rather than in the installation directory. When running using a multi-user deployment, this directory is then assigned the correct group ownership and permissions and fixes an issue whereby CSV export did not work on linux when the installation was configured for a multi-user deployment.	LAE-30422
Fixed an issue in the Database Metadata node which caused errors and incorrect results when run against objects which contained special characters such as "_" on a Synapse database	LAE-30441
The Execute Data Flow node was not working on desktop installations. This has been fixed.	LAE-30465

2.3 Security Consideration

CORS is not enabled on the Analyze application, therefore cross-origin requests are prevented by default from the browsers same-origin policy. There is no requirement for the Analyze application to accept cross-origin requests, and resources are protected by strict same-site cookie based authentication, therefore CORS is not enabled.

2.4 Deprecation notice

As of 3.12.0 the following nodes will be marked as deprecated, with a view to removal in a future Analyze release. These nodes will remain deprecated yet available for the duration of 3.12.x:

Output Tableau (Superseded)

Due to the drop in support of the underlying Tableau SDK that is used by the node, and the issues seen when running the node to upload .tde files to a Tableau server in a Linux Analyze environment (see "Known Issues" section), this node is being deprecated as of the 3.12.0 release, with a view to removal in the future 3.14.0 release.

Customers are recommended to move to using the newer "Output Tableau" and "Upload Tableau" nodes which use the .hyper file format.

Python2 based nodes

The following Python2 based nodes have been deprecated, with a view to removal in a later release:

- Dummy Input (Superseded)
- Fixed Format File (Superseded)
- Trim Fields (Superseded)
- URL Query Builder(Superseded)
- Output Delimited (Superseded)
- Output Fixed (Superseded)
- Output HTML (Superseded)
- Output XML (Superseded)
- Python

3. New in 3.11.0

For information on installing Data360 Analyze, please see the installation guide. Once you are up and running, you can access the integrated product help by clicking the Help button, positioned towards the top right-hand corner of the screen.

The availability of the following new features, enhancements and corrected issues is dependent on the installed edition of the product and licensed features.

3.1 What's new

New 'endpoint' option available on S3 nodes

Introduced a new property **EndPoint** on all S3 nodes. This feature enables you to optionally specify the URL endpoint to connect to other system services.

For more information, see the topics 'S3 Get', 'S3 List', 'S3 Delete', and 'S3 Put'.

Other changes

- Improved directory picker available throughout the application. For Example, you can create folders while saving documents into the directory.
- Tomcat Server is upgraded to 9.0.68.
- Added max-age and expiry attributes to Session Cookie.
- In Sharepoint 365 nodes, introduced support via a new property to allow connecting to Sharepoint 'team' sites created under `/teams` rather than `/sites`.
- Fixed an issue whereby the responses did not contain the Strict-Transport-Security header when HTTPS was configured.
- Introduces an enhancement to the User Lookup Query field in SAML-SSO configuration to allow the lookup query to reference the user profile email address. For example `emailAddress==${username}` will match the SAML uid to the email address in the Analyze user profile.
- Ensured that xlsx files generated by the Output Excel node will only use Zip64 by default. This resolves compatibility issues whereby xlsx files generated by the node could not be correctly read by other software products (for example, Power BI).

- Introduced an ability for licenses to be validated against processors not just CPU cores.
- Fixed an issue whereby if multiple executions began simultaneously as the first runs after a server restart, the executions could result in errors stating "Multiple elements are in the collection" due to a race condition. This error would then reoccur on all executions until a subsequent restart.
- The upgrade installation process has been improved by ensuring that server.xml, web.xml & cacerts keystore are maintained between upgrades. Examples of when you might change these files are while Configuring HTTPS or while Importing SSL certificates for use with certain nodes.
- Introduced a new property in the Execution Sandbox `ls.brain.server.docker.mounts` allows the user to configure access to file locations other than the locations restricted to the Execution Sandbox.
- Changed the default value of "CreateFileFromAbsolutePath" property on the "Archive Compress" node to "false".

3.2 Corrected issues

Issue summary	Issue number
Fixed an issue whereby it was not possible to upgrade from version 3.4.3 of Analyze.	LAE-28348
Fixed CVE-2022-42889 "Text4 Shell" vulnerability in Apache Commons Text.	LAE-29469
Fixed an issue whereby the Category field in the Library Node editor occasionally failed to update once the changes were made.	LAE-29297
Fixed an issue in the URL Query Builder node whereby it was not possible to specify the same name for URLField and URLOutputField properties when PassThroughFields mode was set to "Used" (the default value).	LAE-29328
Fixed an issue whereby it was not possible to uninstall a multi-user installation of Analyze without manually changing file permissions first.	LAE-28777
Fixed the satisfy all groups/ satisfy any group drop down selection for Split node	LAE-29536

Issue summary	Issue number
Fixed the errors in cut and copy operation of composite nodes that show error in UI instead of failing silently.	LAE-29325
Fixed an issue in the filter node, where date picker widget popup and a date value window compete for space, and the application is incorrectly drawing date value window topmost, obscuring and rendering unusable top-right portion of the widget.	LAE-29039
Fixed an issue whereby users with long user names could not execute data flows in the Execution Sandbox configuration of Analyze.	LAE-29195
Fixed an issue whereby when docker is configured to use execution containers on windows server, the docker network used was destroyed on restart of the windows instance.	LAE-28936
Fixed an issue where the type mismatch between inputs and sort fields of a Sort node generates an uncaught error and prevent the node from rendering properly.	LAE-29689

4. Known issues and limitations

We would like to make you aware of the following list of issues and limitations.

If you encounter any other technical issues, contact support at support.precisely.com.

4.1 Third parties

The following table lists third party known issues and limitations:

Feature	Description
Avro	<p>The Avro 1.7.7 specification lists some supported metadata constraints. Specifically, it places restrictions on the names of fields, as follows:</p> <ul style="list-style-type: none">• The field names must start with [A-Za-z_]• The field names must only contain [A-Za-z0-9_] <p>Avro 1.7.7 does not support date, time and datetime data types. As a result, if you want to upload data and use the Data360 Analyze nodes, these fields will need to be converted to string data types.</p>
Hadoop Hive Cluster	<p>When downloading files from the Hadoop Hive Cluster, the WebHDFS API automatically encodes files to base64 format. As a result, it is not always possible to view the contents of the download in the fields on the output.</p> <p>For example, if the DataOutputMode property is set to Field, due to the automatic base64 encoding, the encoded result will be visible instead of the contents.</p> <p>To view the contents, set the DataOutputFieldEncoding property to None. However, this is not always possible due to invalid characters in the original file; in this case, the workaround is to set the DataOutputMode to File and then import the data using one of the input connector nodes.</p>

4.2 Web application

The following table lists Data360 Analyze known issues and limitations:

Feature	Description
Composite library nodes created in previous versions	<p>When importing or running a data flow that was created in an older version of the product, you may see error messages if the data flow contains composite library nodes that have been upgraded since the data flow was first created. If the data flow did not previously show these errors, you can resolve the issues as follows:</p> <ol style="list-style-type: none"> 1. Open the data flow and select all nodes. 2. Choose Apply Auto-Fixes. 3. Save the data flow, then return to the Directory before reopening the data flow.
Links from tooltips to help	Although it is not currently possible to open the integrated help from the links in node property tooltips, you can manually navigate to the help by pressing F1 then searching for the relevant topic.
Logistic Regression node	The Logistic Regression node does not support Unicode for categorical data.
Output Tableau (Superseded) node	The Output Tableau (Superseded) node, which is now deprecated, has issues on a Linux installation of Data360Analyze when configured to upload files to a Tableau Server.

5. Contact us

If you encounter any technical issues, we recommend that you visit the support portal at support.precisely.com.

Download

Precisely recommends that you use the latest version of the product. To download Data360 Analyze, please go to <https://data.precisely.com/software/product-details/data360-analyze>.

Our product is constantly evolving and input from you is highly valued. If you have any suggestions, please contact the product team by submitting a feature request on the [Community](#).

Notices

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