
Overview

SAS Viya 3 Content Assessment delivers the following applications to help you analyze SAS Viya 3 content to better understand your SAS Viya 3 deployment. Reports in SAS Visual Analytics help you review this data.

- Inventory
- System Evaluation
- Code Check
- Detect Duplicate SAS Content
- Code Dependencies
- Summarize SAS Log Steps

Purpose

SAS Viya 3 Content Assessment delivers information that is critical to helping you migrate to the SAS Viya platform. It provides a comprehensive view of the content on your SAS Viya 3 system, giving you invaluable transparency and knowledge. You determine issues before migrating so that if needed, you can proactively address them with SAS Technical Support. Migrating to a new system can be expensive and challenging. With the work that SAS Content Assessment does before migration, you reduce downtime, and you can have confidence in your new system. SAS Content Assessment makes upgrades and migration less expensive, safer, easier, and faster.

Users

To run each application, the user account that you use to generate and run the Ansible playbook must have:

- super user (sudo) or root access
- access to root, sas, and cas
- permission to create subdirectories in the directory where you saved the playbook
- the same user account that is used to download the SAS Viya 3.5 command-line interface (CLI) and install the plug-ins

Additionally, if you are migrating a SAS Viya 3.5 multi-tenant environment, the same operating system account must be used to run the Ansible playbook, the deployment playbook, and to onboard the provider and any tenants.

Results

Results from SAS Viya 3 Content Assessment are displayed as SAS Visual Analytics reports, which enable you to visualize and drill into the collected content and share knowledge with stakeholders.

Assessments

Inventory

This application scans the various SAS objects and content on your system. This assessment can be run as needed on multiple SAS deployments, tenants, and providers.

The SAS Viya 3.5 Inventory report presents this information for your review. To access the report, in SAS Environment Manager, click **Products** ⇒ **SAS Environment Manager** ⇒ **Dashboard Items**. Reports are displayed for you to review.

System Evaluation

This application provides detailed information and characteristics about your content and your system. It helps you plan for migration to SAS Viya 4 by providing information about system status, installed software, and migration status.

The SAS Viya 3.x System Evaluation report presents this information for your review. To access the report, in SAS Environment Manager, click **Products** ⇒ **SAS Environment Manager** ⇒ **Dashboard Items**. Reports are displayed for you to review.

Code Check

This application examines SAS code for incompatibility with SAS Viya. The statements in your SAS programs are analyzed, and information is provided about incompatibilities, library engines, warnings, and hardcoded paths.

The SAS Viya 3 Code Check for SAS Viya report presents this information for your review. To access the report, in SAS Visual Analytics, click **Public** ⇒ **SAS Content Assessment** ⇒ **Code Check**.

Detect Duplicate SAS Content

This application finds duplicate SAS programs and data sets.

The SAS Viya 3 Detected Duplicates report presents this information for your review. To access the report, in SAS Visual Analytics, click **Public** ⇒ **SAS Content Assessment** ⇒ **Duplication**.

Code Dependencies

This application specifies what input dependencies are needed for a SAS program to run successfully and any output dependencies that the SAS program creates.

The SAS Viya 3 Code Dependencies report presents this information for your review. To access the report, in SAS Visual Analytics, click **Public** ⇒ **SAS Content Assessment** ⇒ **Code Dependencies**.

Summarize SAS Log Steps

This application identifies SAS program logs and provides insights into the program steps, including real time and CPU time metrics for optimization on SAS Viya, runtime issues, table output, and users executing specific programs.

The SAS Viya 3 Summarize SAS Log Steps for SAS Viya report presents this information for your review. To access the report, in SAS Visual Analytics, click **Public** ⇒ **SAS Content Assessment** ⇒ **Summarize Logs**.

Prepare and Plan

Prepare

Playbook

Ansible is used to automate the commands to assess your content. SAS provides a playbook that facilitates this assessment.

For a list of supported Ansible versions, see [Red Hat Ansible Requirements](#).

- Ansible is configuration management software that provides a straightforward approach to assessing your content. You customize files for your environment, and then you run commands to assess your content based on values in those files. The set of files, known collectively as the playbook, provides instructions about assessing content.

The process includes a planning step that runs scans and publishes a report. This step involves the execution of an Ansible command that invokes a set of tasks in the playbook specified by options that you set.

- You use the inventory plug-in of the SAS Viya 3.5 command-line interface (CLI) to generate the playbook.
- The MigrationPlanning.sh script validates system and environment prerequisites before it then executes the playbook. The script ensures that required setup conditions are met.

SAS Viya 3.5 Deployment File

The inventory.ini file that is created during the deployment of SAS Viya 3.5 is used by Ansible. The inventory.ini file specifies on which machines (or hosts) the SAS Viya 3.5 components reside.

See [Edit the Inventory File](#) in the *SAS Viya 3.5 for Linux: Deployment Guide* to verify that the inventory.ini file is up to date.

Participating Resources

The following resources in SAS Viya 3.5 can be assessed:

- SAS Infrastructure Data Server (your PostgreSQL server database content)
- SAS Configuration Server (Consul) content
- any RabbitMQ persistent storage
- compute libraries that are derived from LIBNAME statements in compute contexts, both from referenced files and inline autoexec code
- key CAS library content consisting of the following caslibs:¹
 - Formats
 - ModelPerformanceData
 - Models
 - ModelStore
 - VAModels
- key file system content
 - transient analytics caslibs
 - ASTOREs that are written by SAS Model Manager and TKMAS
 - Python scoring results (“pickle” files) that are written by SAS Model Manager
 - User-modified files (USERMODS)
 - SAS logs

1. SAS recommends that you do not migrate these caslibs: AppData, ProductData, ReferenceData, and SystemData.

The following resources in SAS Viya 3.5 cannot be assessed:

- CAS content from DBMS caslibs
- SAS Infrastructure Data Server (PostgreSQL) properties stored in the SAS Configuration Server (Consul)
- logging configuration XML files that determine how log events are processed
- transport layer security (TLS) settings, which are handled differently in SAS Viya 4

Plan

About These Steps

IMPORTANT

- For a SAS Viya 3.5 multi-tenant environment, before proceeding with these steps, communicate with each tenant administrator in your environment that they must do one of the following substeps before you can perform inventory scan tasks on each tenant. The credentials that you use to perform the inventory scan tasks of a tenant must have specific permissions. SAS recommends that you use the sasprovider account for the inventory scan tasks. In this case, the tenant administrator must run an additional step to grant the CAS Superuser Role to the sasprovider. Alternatively, the tenant administrator can provide another account for you to use that is unrestricted, a SAS Administrator, and has the CAS Superuser Role.
 - Grant the CAS Superuser Role to the sasprovider account within each tenant in order to perform inventory scan tasks on each tenant's CAS content. For more information, see [“CAS Superuser Role for the sasprovider Account \(Tenant Administrator\)”](#).
 - Provide another account to run the inventory scan tasks. This account must be unrestricted, a SAS Administrator, and have the CAS Superuser Role.

If the tenant administrator wants to remove the CAS Superuser Role from the sasprovider user, they can do so after the scan is complete.

- These tasks assume that you are familiar with the specific product or offering information in [“Additional Migration Details” in SAS Viya Platform: Full-System Migration from SAS Viya 3.5](#).
- During deployment, you created a deployment directory that SAS recommended that you name `deploy` or an alternative name that is meaningful to you. This directory is referred to as `$deploy` in this guide. Replace `$deploy` with the directory name that you chose.
- The `inventory.ini` file that was used to deploy SAS Viya 3.5 must exist in the `sas_viya_playbook` directory. The deployment must be defined in the `inventory.ini` file in order for migration to work. In addition, the `ansible_user` variable must be defined for the user who is currently running the playbook. For example:

```
deployTarget ansible_host=host_ip_or_name ansible_user=user_with_privilege
```

CAS Superuser Role for the sasprovider Account (Tenant Administrator)

Note: The tenant administrator of the tenant that you are scanning must perform the following steps if using the credentials of the sasprovider account to run inventory scan tasks:

From the SAS Viya 3.5 source environment, follow these steps to grant the CAS Superuser Role to the sasprovider account by using the cas plug-in to the sas-admin CLI.

- 1 Download the sas-admin CLI, create a profile and sign in, and install the cas plug-in. When you sign in to the sas-admin CLI with the AUTH LOGIN commands, specify the credentials for the tenant administrator. See [Download the CLI Executable](#) in the *SAS Viya 3.5: Administration Guide* for instructions.
- 2 Run the ADMIN-USERS ADD commands of the cas plug-in to the sas-admin CLI to grant the CAS Superuser Role to the sasprovider account.

```
sas-admin cas admin-users add --user sasprovider --server cas-tenant-server
```

From the SAS Viya 3.5 source environment, follow these steps to grant the CAS Superuser Role to the sasprovider account by using the cas plug-in to the sas-admin CLI.

- 1 If not already done, download the sas-admin CLI, create a profile and sign in, and install the cas plug-in. When you sign in to the sas-admin CLI with the AUTH LOGIN commands, specify the credentials for the tenant administrator. See [Download the CLI Executable](#) in the *SAS Viya 3.5: Administration Guide* for instructions.
- 2 Run the ADMIN-USERS REMOVE commands of the cas plug-in to the sas-admin CLI to remove the CAS Superuser Role from the sasprovider account.

```
sas-admin cas admin-users remove --name user-sasprovider-superUser --user sasprovider
--server cas-tenant-server
```

Steps

Perform the following steps to assess the SAS Viya 3.5 source environment.

If you are assessing a SAS Viya 3.5 multi-tenant environment, it is important to run the inventory scan tasks on the provider and each tenant individually. SAS recommends that you run inventory scan tasks on the provider first using the provider's URL for the endpoint and the provider's credentials. Perform all of the following steps on the provider. Then, you must repeat steps 3b through 6 and steps 9 through 12 on each tenant.

- 1 If your environment is enabled for transport layer security (TLS), you must set the SSL_CERT_FILE environment variable to the path location of the trustedcerts.pem file (if using the SAS default truststore) or the path location of your site-signed certificate (if using an internal truststore).

Note: For CLI users on Linux who are running the CLIs directly on the SAS machine, you might be able to [source the consul.conf file](#) rather than set the SSL_CERT_FILE environment variable.

Set the SSL_CERT_FILE to one of the following values:

Truststore	Operating System	Path
SAS default truststore	Linux	/opt/sas/viya/config/etc/SASSecurityCertificateFramework/cacerts/trustedcerts.pem
	Windows	C:\ProgramData\SAS\Viya\etc\SASSecurityCertificateFramework\cacerts\trustedcerts.pem
internal truststore	Linux or Windows	<i>path_to_truststore_including_name</i>

Here is an example of how to set the environment variable in a Linux environment:

```
export SSL_CERT_FILE=/opt/sas/viya/config/etc/SASSecurityCertificateFramework/cacerts/trustedcerts.pem
```

- 2 From the SAS Viya 3.5 source environment, generate the playbook¹ with the inventory plug-in to the sas-admin CLI.

- a Download the sas-admin CLI as the same user that will run the playbook and install the inventory, cas, and backup plug-ins. See [Download the CLI Executable](#) in the *SAS Viya 3.5: Administration Guide* for download instructions.

Here are additional details:

- You must download at least the minimum required version of the inventory, cas, and backup plug-ins.

Plug-In	Minimum Required Version
inventory	1.13.1 or higher
cas	1.13.68 or higher
backup	1.6.3 or higher

- You cannot generate or run the playbook on Windows.
- b Run the GENERATE-PLAYBOOK command of the inventory plug-in to the sas-admin CLI to create the playbook. Specify the **sas_viya_playbook** directory as the OUTPUT-LOCATION in the command below.

```
sas-admin inventory generate-playbook --output-location path_location
```

¹The playbook leverages the same inventory scan tasks as in SAS Viya 3.5 with some additional tools.

The following files are created when you generate the playbook.

File	Description
viya_plan_backup_vars.yml	The YML file that the user edits.
viya-plan-backup.yml	The playbook.
viya-plan-backup-profilelogin.sh	The login script for the sas-admin CLI that is run by the playbook.
viya-plan-backup-profilelogout.sh	The logout script for the sas-admin CLI that is run by the playbook.
viya_credentials.txt	The sample credentials file for a provider in a multi-tenant environment or a single tenant in a non-multi-tenant environment.
tenant_credentials.txt	The sample credentials file for a tenant in a multi-tenant environment. Note: This file is not used for SAS Viya 3.5 deployments that are not configured for multi-tenancy.
get-timezone.jar	The JAR file that calculates the time zone.
getTimeZone.sh	The script that executes the get-timezone.jar.
checkhealth.sh	The system evaluation script that gathers system data on the host in the SAS Viya 3.5 system.
getversion.sas	A system evaluation program to retrieve the SPRE version for SAS Viya 3.5.
getversion.sh	The system evaluation script that executes getversion.sas and formats the result.
MigrationPlanning.sh	This script verifies a SAS Viya 3.5 deployment to be used with SAS Viya 3 Content Assessment.
mergeresults.sh	The system evaluation script that merges the results produced on each host into one set of CSV files. These

File	Description
	CSV files are used by the SAS Viya 3.x System Evaluation report.
VIYA3_public_key.pem	Public key used to encrypt the uploaded content.
SASViyaEvaluate_convert2ds.sas	SAS program used to convert System Evaluation's results CSVs to SAS data sets to include in the upload archive.
SASViyaInventory_convert2ds.sas	SAS program used to convert Inventory's results CSVs to SAS data sets to include in the upload archive.
SAS_Viya_35_System_Evaluation.json	The SAS Viya 3.x System Evaluation report JSON file that can be loaded using SAS Environment Manager. The SAS Viya 3.x System Evaluation report enables you to see attributes of the CPU(s) and operating system as well as installed software in the SAS system.

- 3 From the OUTPUT-LOCATION specified with the GENERATE-PLAYBOOK command of the inventory plug-in to the sas-admin CLI, generate credentials files as follows if you are scanning a **single tenant**:

- a Copy the sample viya_credentials.txt file to your home directory.

```
cp viya_credentials.txt $HOME/.sas/
```

- b The file must contain a cleartext password and must have Read and Write permissions only for the owner. Use chmod to change the permissions:

```
chmod 600 ~/.sas/viya_credentials.txt
```

- c Replace *user* and *password* in the file with the credentials for a member in the SAS administrators group.

Note:

- Using any of the following characters in the password of the credentials.txt file causes the playbook to fail when it is run:

Table 1 Characters Not to Use in the Password of the credentials.txt File

Character	Name(s)	Caveats
`	Grave or back quote	

Character	Name(s)	Caveats
(and =	Open parenthesis and equal sign	When both are present anywhere in the same password
	Space	When one or multiple spaces are present in a password

d Save the file.

- 4 If you are scanning a **provider in a multi-tenant environment**, perform the previous steps (3a through 3d) as a SAS Administrator. Make sure that in step 3c, the account also has the CAS Superuser Role that allows CAS artifacts to be processed.
- 5 If you are scanning a **tenant in a multi-tenant environment**, perform the following steps instead of steps 3a through 3d:

- a As a SAS administrator, copy the sample `tenant_credentials.txt` file to your home directory. Rename the file by substituting the value of the `sas_tenant` parameter in the `viya_plan_backup_vars.yml` for `tenant_`.

```
cp tenant_credentials.txt $HOME/.sas/sas_tenant_credentials.txt
```

For example, if your tenant is named `tenant1`, here is the command that you would use to copy and rename the file:

```
cp tenant_credentials.txt $HOME/.sas/tenant1_credentials.txt
```

- b The file must contain a cleartext password and must have Read and Write permissions only for the owner. As a SAS Administrator, use `chmod` to change the permissions:

```
chmod 600 ~/.sas/sas_tenant_credentials.txt
```

- c As a SAS Administrator, replace `user` and `password` in the file with the credentials for a member that has the required permissions.

SAS recommends that you use the credentials for the `sasprovider` account. In this case, the tenant administrator must run an additional step to grant the CAS Superuser Role to the `sasprovider`. Alternatively, the tenant administrator can provide another account for you to use that is unrestricted, a SAS Administrator, and has the CAS Superuser Role.

- Grant the CAS Superuser Role to the `sasprovider` account within each tenant in order to run inventory scan tasks on the tenant's CAS content. For more information, see [“CAS Superuser Role for the sasprovider Account \(Tenant Administrator\)”](#).
- Provide another account to run the inventory scan tasks. This account must be unrestricted, a SAS Administrator, and have the CAS Superuser Role.

d Save the file.

Note: In all of the above scenarios, if the user account in the credentials file is a member of the `CASHOSTACCOUNTREQUIRED` group, then the playbook will fail when attempting to load the

inventory data into the SystemData caslib. Remove the user from the CASHOSTACCOUNTREQUIRED group to resolve this issue. You can add the user to the group again after completing the backup step.

- 6 Edit the following parameters of the viya_plan_backup_vars.yml file:

Parameter	Description
COLLECT_PARENT_FOLDER	A flag that indicates whether parent folders of objects are recorded by inventory scan tasks. Default is <i>false</i>. Setting this value to true might degrade performance. Added in release 2025.08
customerID	The customer name for the deployment that is being inventoried. IMPORTANT The customer name must be alphanumeric.
deploymentLabel	The identifier for the deployment that is being inventoried. IMPORTANT The deployment label must be alphanumeric.
deploymentType	The flag that indicates whether the deployment is multi-tenant or non-multi-tenant. The valid values are single for non-multi-tenant and multiple for multi-tenant. The default value is single. Note: This parameter is not used for SAS Viya 3.5 deployments that are not configured for multi-tenancy.
endpointServer	In a SAS Viya 3.5 non-multi-tenant environment, the endpoint URL of the SAS Viya 3.5 server. In a SAS Viya 3.5 multi-tenant environment, the endpoint URL of the provider or tenant that you are currently scanning. Use the following format: <i>communications-protocol://web-server-host-name:web-server-port</i>
evaluateResultsLocation	The path location for the subdirectories that contain all of the files that result from running the playbook with the evaluate tasks.³
inventoryResultsLocation	The path location for subdirectories that contain all of the inventory files that result from running the playbook.¹
migrationPackageLocation	The storage location for the SAS Viya 3.5 migration package.
pathsList	The file with its path location that contains additional paths on which to run inventory scan tasks. If no file is specified, then only the file systems used by SAS Viya 3.5 are scanned.²

Parameter	Description
prepareUploads	Set this variable to true to enable sharing your results with SAS. Setting it to true creates encrypted published results for upload to SAS. If set to true, you must also specify a value for uploadsLocation.
provider_endpoint Server	In a SAS Viya 3.5 multi-tenant environment, the endpoint URL of the SAS Viya 3.5 provider. Use the following format: <i>communications-protocol://web-server-host-name:web-server-port</i> If you are performing inventory scan tasks on a SAS Viya 3.5 multi-tenant environment, you must use this parameter to specify the URL of the provider when scanning the provider or the tenants. Note: This parameter is not used for SAS Viya 3.5 deployments that are not configured for multi-tenancy.
reportCASServer	The CAS server name where the published Inventory or System Evaluation CSV files need to be loaded for use in the SAS Viya 3.5 Inventory or SAS Viya 3.x System Evaluation report in SAS Environment Manager.
SAS_BACKUP_ID	The ID of the SAS Viya 3.5 migration package. The ID must be unique for each run of the playbook. The playbook stops running if a migration package with the specified ID already exists. Note: Any spaces in the value of this parameter are replaced with underscores.
sasExecutionHost	Defaults to deployTarget. Specify a host on which SAS will be executed to prepare the upload packages. This value must be in the ComputeServer or programming host group.
sas_tenant	In a multi-tenant deployment, this is the value that was specified when onboarding a tenant. The value is case specific and was used in various paths created during the onboarding. This value specifies which tenant is being inventoried in a multi-tenant system. The default value is viya. For the provider, use the default value (viya). See Choose a Valid Tenant ID in the <i>SAS Viya 3.5 Administration Guide</i> for more information about the tenant ID. For non-multi-tenant deployments, use the default value (viya).
sharedVaultLocation	The network location that preserves the backups from all tiers. This value should match the sharedVault property in the Backup service configuration.

Parameter	Description
temporaryDirectory	A file system location used to store temporary files and program execution results. This location must exist on every machine in the deployment, be accessible to root, and have sufficient disk space to store potentially gigabytes of data. For example: <code>/opt/sas/assessment/tmp</code> . For multi-machine deployments, these requirements mean that a shared location cannot be used.
uploadsLocation	The storage location for your uploads package.
WaitForBackupCount	The number of 60-second intervals to wait for backup status while waiting for the backup to complete. The default is 720, which is 12 hours.

¹The following subdirectories are automatically created within the directory location specified in the INVENTORYRESULTSLOCATION parameter:

Note: In SAS Viya 3.5 deployments that are not configured for multi-tenancy, the value for `sas_tenant` in the directory paths in the table below is replaced by `viya`

Name	Description
<code>/INVENTORYRESULTSLOCATION/ sas_tenant/allScanResults</code>	The path location for all of the files that result from the inventory scan tasks.
<code>/INVENTORYRESULTSLOCATION/ sas_tenant/publishedCSVFiles</code>	The path location for the CSV files produced for the SAS Viya 3.5 Inventory report.
<code>/INVENTORYRESULTSLOCATION/ sas_tenant/contentSelection</code>	The path location for the files that determine what content to back up for each host machine. This location must be accessible during the backup tasks. Note: This location is automatically populated with a <code>/short-host-name/</code> directory for each host machine. Each directory contains the backup files for that specific host machine.

²The file specified in the PATHLISTFILE parameter of the `viya_plan_backup_vars.yml` file is a file that contains a list of additional paths to run inventory scan tasks. Create the file as follows:

- Place each path on a separate line.
- Place paths from all hosts in this file because each host is scanned for the additional paths.

- Consider organizing the list by placing the host name in a comment prior to the paths that exist on each host.

³The following subdirectories are automatically created within the directory location specified in the EVALUATERESULTSLOCATION parameter: `/EVALUATERESULTSLOCATION/sas_tenant/allResults` and `/EVALUATERESULTSLOCATION/sas_tenant/publishedCSVFiles`. In deployments that are not configured for multi-tenancy, the value for `sas_tenant` in the directory path is replaced by `viya`.

- 7 In addition to the paths containing SAS artifacts, consider placing the paths for any PATH or DNFS-based caslibs in the file specified in the PATHLISTFILE parameter of the `viya_plan_backup_vars.yml` file. The inventory scan tasks can provide information in the SAS Viya 3.5 Inventory report about any additional valid content that might be located in this location. See [“PATHLISTFILE Parameter File” in SAS Viya Platform: Full-System Migration from SAS Viya 3.5](#) for more information.
- 8 Save the [deployment log](#) in a known location to preserve this information.
- 9 If you used an alternative value for the OUTPUT-LOCATION of `generate-playbook`, then copy the following files into the `sas_viya_playbook` directory:
 - `playbook (viya-plan-backup.yml)`
 - `viya_plan_backup_vars.yml`
 - `viya-plan-backup-profilelogin.sh`
 - `viya-plan-backup-profilelogout.sh`
 - `get-timezone.jar`
 - `getTimeZone.sh`
 - `checkhealth.sh`
 - `getversion.sas`
 - `getversion.sh`
 - `mergeresults.sh`
 - `MigrationPlanning.sh`
 - `VIYA3_public_key.pem`
 - `SASViyaEvaluate_convert2ds.sas`
 - `SASViyaInventory_convert2ds.sas`
 - `SAS_Viya_35_System_Evaluation.json`
- 10 Ensure that you are at the top level of the `sas_viya_playbook` directory.

Running the `evaluate` command in the `MigrationPlanning` script does the following actions:

- creates a `sas-admin` CLI profile named `userid-syseval`. See [Create at Least One Profile](#) in the *SAS Viya 3.5: Administration Guide* for more information.

Note: The profile name consists of information from the `viya_credentials.txt` and `viya_plan_backup_vars.yml` files.

- evaluates your deployment and puts the resulting files in the `/EVALUATERESULTSLOCATION/sas_tenant/allResults` location.
- generates the data (CSV files) for the SAS Viya 3.x System Evaluation report in SAS Environment Manager and puts them in the `/EVALUATERESULTSLOCATION/sas_tenant/publishedCSVFiles` location.
- copies the SAS Viya 3.x System Evaluation report into the `/EVALUATERESULTSLOCATION/sas_tenant/publishedCSVFiles` location.

The CSV files that are produced are imported into the SystemData library of the server specified in the REPORTCASSERVER parameter in the `viya_plan_backup_vars.yml` file.

Note: Run the following command as the same identity that was used to deploy the software. Do not run as root. See [Set Up the User Account that Deploys the Software](#) in the SAS Viya 3.5: *Administrator's Guide* for more information.

Here is the command:

```
./MigrationPlanning.sh evaluate
```

The evaluate command creates a SAS Visual Analytics report in JSON format. Before using the report in SAS Environment Manager, you must import the `SAS_Viya_3x_System_Evaluation.json` file generated when you ran the playbook into SAS Environment Manager. For information about importing the JSON file, start at [Step 2](#).

Review the SAS Viya 3.x System Evaluation report in SAS Environment Manager. The report is available only to SAS administrators. See [Using the Dashboard](#) in SAS® Viya® 3.5 *Administration: Using SAS® Environment Manager* for more information about locating and working with reports from SAS Environment Manager.

You might want to take time now to review the results from the evaluation and make decisions about how to move forward. If, however, you are ready to run the inventory command, proceed to the next step.

- 11 Ensure that you are at the top level of the `sas_viya_playbook` directory.

Running the inventory command in the MigrationPlanning script does the following actions:

- creates a sas-admin CLI profile named `userid-SAS_BACKUP_ID`. See [Create at Least One Profile](#) in the SAS Viya 3.5: *Administration Guide* for more information.

Note: The profile name consists of information from the `viya_credentials.txt` and `viya_plan_backup_vars.yml` files.

- scans your deployment and puts the resulting files in the `/INVENTORYRESULTSLOCATION/sas_tenant/allScanResults` location.
- generates the data (CSV files) for the SAS Viya 3.5 Inventory report in SAS Environment Manager, and puts them in the `/INVENTORYRESULTSLOCATION/sas_tenant/publishedCSVFiles` location.
- creates a set of YAML files that describe the CAS library and file system content to be backed up, and puts them in the `/INVENTORYRESULTSLOCATION/sas_tenant/contentSelection` location.

Note: The YAML files are created only when you run the inventory command.

Note: Run the following command as the same identity that was used to deploy the software. Do not run as root. See [Set Up the User Account that Deploys the Software](#) in the SAS Viya 3.5: *Administrator's Guide* for more information.

Here is the command:

```
./MigrationPlanning.sh inventory
```

- 1 The inventory command produces files that enable you to populate and use the SAS Viya 3 Inventory report from SAS Environment Manager. These files are located in the / **INVENTORYRESULTSLOCATION/sas_tenant/publishedCSVFiles** from the `viya_plan_backup_vars.yml` file. See [SAS Viya Platform: Inventory](#) for more information about the SAS Viya 3 Inventory report.

The resulting CSV files that are produced are imported into the SystemData library of the server specified in the REPORTCASSERVER parameter in the `viya_plan_backup_vars.yml` file.

The inventory command creates a SAS Visual Analytics report in JSON format. Before using the report in SAS Environment Manager, you must import the JSON file that is produced into SAS Environment Manager to create the updated SAS Viya 3 Inventory report. If you do not import the updated report, you will not get the correct information in the report (if migrating from SAS Viya 3.5).

Here is the JSON file that you must import into the SystemData library:
SASEV_SASViyaInventory_V3.json.

For information about importing the SAS Viya 3.5 JSON file, start at [Step 2](#).

- 2 Review the SAS Viya 3 Inventory report in SAS Environment Manager to identify items that you want to back up. The report is available only to SAS administrators. See [Using the Dashboard](#) in *SAS Viya 3.5: Administration: Using SAS Environment Manager* for more information about locating and working with reports from SAS Environment Manager.

Other SAS Content Assessment Applications

SAS continues to support migration to SAS Viya by developing other SAS Content Assessment applications.

Code Check

This application examines SAS code for compatibility with SAS Viya. The statements in your SAS programs are analyzed, and information is provided about incompatibilities, library engines, warnings, and hardcoded paths.

- 1 Make sure that the SAS Content Assessment Inventory application has been run by executing `MigrationPlanning.sh inventory`. For more information, see the MigrationPlanning script.

- 2 From [Downloads & Hot Fixes](#), download the `SASViya3ContentAssessment.yyyy.mm.tgz` file on the machine on which you generated the playbook.
- 3 Unpack the TGZ file into the `sas_viya_playbook` directory (the playbook location).
- 4 Verify values in the `viya_plan_backup_vars.yml` file. There is a list of the variables that are used in the SAS Viya 3 Content Assessment playbook at the beginning of the `viya3_ca_vars.yml` file.

TIP Check the paths specified in the `pathList.txt` file. Enable `prepareUploads` and specify an `UploadsLocation` if you plan to share results with SAS.

- 5 In the `viya3_ca_vars.yml` file, specify the following values:
 - `caResultsLocation`: Defaults to `/opt/sas/playbook`. Specify a directory in which to store SAS Content Assessment results.
 - `sasPublishHost`: Defaults to `deployTarget`. Specify a host on which SAS will be executed. This value can be different from `sasExecutionHost`. This value must be in the `ComputeServer` or programming host group.
 - `runCodeCheck`: Defaults to `true`. If `false`, the playbook will not execute the application. The playbook will not run at all if all applications are `false`.
 - `useRSYNC`: Defaults to `false`. If `true`, data marts are moved directly from each SAS host to the designated publish host using `rsync`. If `false`, data marts are streamed using `tar`: first from each SAS host to the Ansible controller, and then from the Ansible controller to the designated publish host. This option requires passwordless SSH to be configured between the host and if it is not, `rsync` will fail and `useRSYNC` should remain set to `false`.
- 6 Run the playbook (`viya3-content-assessment.yml`). Code check is executed on the `ComputeServer` or programming host. Here is the command:


```
ansible-playbook viya3-content-assessment.yml
```
- 7 The code check application creates several data sets in the Public CAS library of the server specified as the `reportCASServer` on the endpoint host. These data sets are `codechk_issues3.sas7bdat`, `codechk_keywords.sas7bdat`, `codechk_notproc3.sas7bdat`, `codechk_steps3.sas7bdat`, `codechk_totals3.sas7bdat`, and `elements_aggregated3.sas7bdat`.
- 8 A summary of the code check results can be found in `caResultsLocation/ca_results/content_assessment_summary.md`.
- 9 A map of the inventory host names (defined in the `inventory.ini` file) to `scan_tags` (which are auto-generated during execution) can be found in `caResultsLocation/ca_results/scan_tags.txt`.
- 10 Load the SAS Viya 3 Code Check for SAS Viya report, which is located in `caResultsLocation/ca_results/codecheck`, and is named `SAS_V3_Code_Check_for_SAS_Viya.json`.

Detect Duplicate SAS Content

This application finds duplicate SAS programs and data sets.

- 1 Make sure that the SAS Content Assessment Inventory application has been run by executing `MigrationPlanning.sh inventory`. For more information, see the `MigrationPlanning` script.

- 2 From [Downloads & Hot Fixes](#), download the `SASViya3ContentAssessment.yyyy.mm.tgz` file on the machine on which you generated the playbook.
- 3 Unpack the TGZ file into the `sas_viya_playbook` directory (the playbook location).
- 4 Verify values in the `viya_plan_backup_vars.yml` file. There is a list of the variables that are used in the SAS Viya 3 Content Assessment playbook at the beginning of the `viya3_ca_vars.yml` file.

TIP Check the paths specified in the `pathList.txt` file. Enable `prepareUploads` and specify an `UploadsLocation` if you plan to share results with SAS.

- 5 In the `viya3_ca_vars.yml` file, specify the following values:
 - `caResultsLocation`: Defaults to `/opt/sas/playbook`. Specify a directory in which to store SAS Content Assessment results.
 - `sasPublishHost`: Defaults to `deployTarget`. Specify a host on which SAS will be executed. This value can be different from `sasExecutionHost`. This value must be in the `ComputeServer` or programming host group.
 - `runDetectDuplicateSASContent`: Defaults to `true`. If `false`, the playbook will not execute the application. The playbook will not run at all if all applications are `false`.
 - `useRSYNC`: Defaults to `false`. If `true`, data marts are moved directly from each SAS host to the designated publish host using `rsync`. If `false`, data marts are streamed using `tar`: first from each SAS host to the Ansible controller, and then from the Ansible controller to the designated publish host. This option requires passwordless SSH to be configured between the host and if it is not, `rsync` will fail and `useRSYNC` should remain set to `false`.
- 6 Run the playbook (`viya3-content-assessment.yml`). Detect duplicate SAS content is executed on the `ComputeServer` or programming host. Here is the command:


```
ansible-playbook viya3-content-assessment.yml
```
- 7 The detect duplicate SAS content application creates several data sets in the Public CAS library of the server specified as the `reportCASServer` on the endpoint host. These data sets are `dups3`, `inaccs3`, and `metrics3`.
- 8 A summary of the detect duplicate SAS content results can be found in `caResultsLocation/ca_results/content_assessment_summary.md`.
- 9 A map of the inventory host names (defined in the `inventory.ini` file) to `scan_tags` (which are auto-generated during execution) can be found in `caResultsLocation/ca_results/scan_tags.txt`.
- 10 Load the SAS Viya 3 Detected Duplicates report, which is located in `caResultsLocation/ca_results/duplication`, and is named `SAS_V3_Detected_Duplicates.json`. The information is available on the **Duplicates** tab.

Code Dependencies

This application identifies the input dependencies that are required for a SAS program to run successfully, as well as any output dependencies that the program creates.

- 1 Make sure that the SAS Content Assessment Inventory application has been run by executing `MigrationPlanning.sh inventory`. For more information, see the `MigrationPlanning` script.
- 2 From [Downloads & Hot Fixes](#), download the `SASViya3ContentAssessment.yyyy.mm.tgz` file on the machine on which you generated the playbook.
- 3 Unpack the TGZ file into the `sas_viya_playbook` directory (the playbook location).
- 4 Verify values in the `viya_plan_backup_vars.yml` file. There is a list of the variables that are used in the SAS Viya 3 Content Assessment playbook at the beginning of the `viya3_ca_vars.yml` file.

TIP Check the paths specified in the `pathListFile` file. Enable `prepareUploads` and specify an `UploadsLocation` if you plan to share results with SAS.

- 5 In the `viya3_ca_vars.yml` file, specify the following values:
 - `caResultsLocation`: Defaults to `/opt/sas/playbook`. Specify a directory in which to store SAS Content Assessment results.
 - `sasPublishHost`: Defaults to `deployTarget`. Specify a host on which SAS will be executed. This value can be different from `sasExecutionHost`. This value must be in the `ComputeServer` or `programming host` group.
 - `useRSYNC`: Defaults to `false`. If `true`, data marts are moved directly from each SAS host to the designated publish host using `rsync`. If `false`, data marts are streamed using `tar`: first from each SAS host to the Ansible controller, and then from the Ansible controller to the designated publish host. This option requires passwordless SSH to be configured between the host and if it is not, `rsync` will fail and `useRSYNC` should remain set to `false`.
 - `runCodeDependencies`: Defaults to `true`. If `false`, the playbook will not execute the application. The playbook will not run at all if all applications are `false`.
- 6 Run the playbook (`viya3-content-assessment.yml`). Code dependencies is executed on the `ComputeServer` or `programming host`. Here is the command:


```
ansible-playbook viya3-content-assessment.yml
```
- 7 The code dependencies application creates several data sets in the Public CAS library of the server specified as the `reportCASServer` on the endpoint host. These data sets are `deps3` and `elig3`.
- 8 A summary of the code dependencies can be found in `caResultsLocation/ca_results/content_assessment_summary.md`.
- 9 A map of the inventory host names (defined in the `inventory.ini` file) to `scan_tags` (which are auto-generated during execution) can be found in `caResultsLocation/ca_results/scan_tags.txt`.
- 10 Load the SAS Viya 3 Code Dependencies report, which is located in `caResultsLocation/ca_results/dependencies`, and is named `SAS_V3_Code_Dependencies_for_SAS_Viya.json`.

Summarize SAS Log Steps

This application identifies SAS program logs and provides insights into the program steps, including real time and CPU time metrics for optimization on SAS Viya, runtime issues, table output, and users executing specific programs.

- 1 Make sure that the SAS Content Assessment Inventory application has been run by executing `MigrationPlanning.sh inventory`. For more information, see the MigrationPlanning script.
- 2 From [Downloads & Hot Fixes](#), download the `SASViya3ContentAssessment.yyyy.mm.tgz` file on the machine on which you generated the playbook.
- 3 Unpack the TGZ file into the `sas_viya_playbook` directory (the playbook location).
- 4 Verify values in the `viya_plan_backup_vars.yml` file. There is a list of the variables that are used in the SAS Viya 3 Content Assessment playbook at the beginning of the `viya3_ca_vars.yml` file.

TIP Check the paths specified in the `pathListFile` file. Enable `prepareUploads` and specify an `UploadsLocation` if you plan to share results with SAS. If you are sharing, user IDs are obfuscated in the uploaded data, and a mapping file is created in the SAS Viya 3 Content Assessment Results directory. This file can be used to map obfuscated values to the corresponding user IDs when reviewing results with your SAS representative.

- 5 In the `viya3_ca_vars.yml` file, specify the following values:
 - `caResultsLocation`: Defaults to `/opt/sas/playbook`. Specify a directory in which to store SAS Content Assessment results.
 - `sasPublishHost`: Defaults to `deployTarget`. Specify a host on which SAS will be executed. This value can be different from `sasExecutionHost`. This value must be in the `ComputeServer` or `programming host` group.
 - `useRSYNC`: Defaults to `false`. If `true`, data marts are moved directly from each SAS host to the designated publish host using `rsync`. If `false`, data marts are streamed using `tar`: first from each SAS host to the Ansible controller, and then from the Ansible controller to the designated publish host. This option requires passwordless SSH to be configured between the host and if it is not, `rsync` will fail and `useRSYNC` should remain set to `false`.
 - `runSummarizeSASLogSteps`: Defaults to `true`. If `false`, the playbook will not execute the application. The playbook will not run at all if all applications are `false`.
- 6 Modify the `pathListFile` file. It must contain the top-level paths to the directories containing SAS program logs. When log files are stored in separate locations, each application must be processed independently using a `pathListFile` file that specifies the appropriate log paths for that application.
- 7 Run the playbook (`viya3-content-assessment.yml`). Summarize SAS log steps is executed on the `ComputeServer` or `programming host`. Here is the command:


```
ansible-playbook viya3-content-assessment.yml
```
- 8 A summary of summarize SAS log steps can be found in `caResultsLocation/ca_results/content_assessment_summary.md`.

- 9 A map of the inventory host names (defined in the inventory.ini file) to scan_tags (which are auto-generated during execution) can be found in *caResultsLocation/ca_results/scan_tags.txt*.
- 10 Load the SAS Viya 3 Summarize SAS Log Steps for SAS Viya report, which is located in *caResultsLocation/ca_results/summarizelogs*, and is named *SAS_V3_Summarize_Log_Steps.json*.

Reports

Review these reports in SAS Visual Analytics to aid in migration planning. The reports are available only to SAS administrators. To access the reports, in SAS Visual Analytics, click **Public** ⇒ **SAS Content Assessment**, and then select the application for the report that you want to view.

Cleanup

With the information that you have gathered from assessing your data, there might be some things that you need to clean up before you migrate. For example, transfer packages are created for the migration process. After migration is complete, these packages might no longer be needed. Currently, there is no process to automatically clean up these packages. They can accumulate over time and contribute to unnecessary storage use and maintenance overhead.

In the SAS Viya 3 Inventory report, all SAS transfer packages that have been created are displayed. You can use the report to filter the view to show transfer packages that you want to remove before migration to SAS Viya 4. You can export this list to a CSV file using the SAS Viya 3 Inventory report and SAS Visual Analytics. This CSV file can be used as input to the transfer plug-in to the sas-admin CLI to remove the unwanted packages. For more details about how you use the transfer plug-in, see [“How To \(CLI\)” in SAS Viya Platform: Content Migration from SAS Viya](#).

To access the report, in SAS Environment Manager, click **SAS Content** ⇒ **Products** ⇒ **SAS Environment Manager** ⇒ **Dashboard Items**. Reports are displayed for you to review.

What's Next?

You are now ready to start migration. To do a full-system migration, see [“Full-System Migration from SAS Viya 3.5: Tasks” in SAS Viya Platform: Full-System Migration from SAS Viya 3.5](#). To do content migration, see [“Migration within the SAS Viya Platform: Tasks” in SAS Viya Platform: Content Migration from SAS Viya](#).

Reference

Scan and Publish

Scan Details

Scan Output Files

The scans produce the following sets of output files:

Note: It is recommended that you use the same output location for all of the scans.

Table 2 Files Produced by Scans

Type of Scanned Content	Files Produced	Description
CAS	<code>SASViyaInventory_CAS_deployment-label_short-host-name.csv</code>	CSV file that contains results of CAS scan.
	<code>SASViyaInventory_CAS_deployment-label_short-host-name_time-stamp.log</code>	Log file of CAS scan.
	<code>SASViyaInventory_CAS_deployment-label_short-host-name_CASUSER_Paths.txt</code>	Text file that contains paths of CASUSER libraries.
	<code>SASViyaInventory_CAS_deployment-label_short-host-name_Caslibs.yml</code>	YML output file that contains information about caslibs.
	<code>cas-server-name.yml</code>	YML output file that contains information about CAS servers.
	<code>SASViyaInventory_CASSvrDetails_deployment-label_short-host-name.csv</code>	CSV file that contains details about the resources used by the CAS server.

Type of Scanned Content	Files Produced	Description
File system	SASViyaInventory_NFSPaths_CAS_deployment-label_short-host-name.csv	CSV file that lists the locations of CAS data that are on NFS paths.
	SASViyaInventory_Filessystem_deployment-label_short-host-name.csv	CSV file that contains results of file system scan.
	SASViyaInventory_Filessystem_deployment-label_short-host-name_time-stamp.log	Log file of file system scan.
	SASViyaInventory_Filessystem_deployment-label_short-host-name_Paths.yml	YML output file.
Services	SASViyaInventory_NFSPaths_Filessystem_deployment-label_short-host-name.csv	CSV file that lists the locations of the file system directories that are on NFS paths.
	SASViyaInventory_Services_deployment-label.csv	CSV file that contains results of services scan.
	SASViyaInventory_Services_deployment-label_time-stamp.log	Log file of services scan.
	SASViyaInventory_TransferPkgs_deployment-label.csv	CSV file that contains results of services scan for transfer packages.
	SASViyaInventory_TransferPkgs_deployment-label.log	Log file of services scan for transfer packages.
Infrastructure	SASViyaInventory_Internal_deployment-label.csv	CSV file that contains results of services scan for SAS objects that have been created by SAS, not users.
	SASViyaInventory_Infrastructure_deployment-label_short-host-name.csv	CSV file that contains results of infrastructure scan.
	SASViyaInventory_Infrastructure_deployment-label_short-host-name_time-stamp.log	Log file of infrastructure scan.

Publish Details

Overview

The playbook produces CSV files that are used to populate the SAS Viya 3.5 Inventory report.

Reports

Note: See [Using the Dashboard](#) in *SAS® Viya® 3.5 Administration: Using SAS® Environment Manager* for more information about locating and working with reports from SAS Environment Manager.

SAS Viya 3.5 Inventory Report

The Inventory report contains merged information from the various scans that are run by the inventory plug-in to the SAS Viya 3.5 command-line interface (CLI). The report is available only to SAS administrators.

When you open the report, the deployments for which an inventory was run are listed at the top. Select a deployment to display a report.

SAS Viya 3.x System Evaluation Report

The SAS Viya 3.x System Evaluation report contains information about the CPU and operating system(s) as well as the installed software.

Troubleshooting

General Troubleshooting Strategies

Starting at release 2024.07, a general troubleshooting topic is available for the SAS Viya platform. For releases prior to 2024.07, much of the information in the topic is still applicable. See [Troubleshooting Strategies](#) for general information about how to approach issues.

The sas-viya CLI Cannot Run

Problem

One of the following messages occurs while running the sas-viya CLI to generate the playbook:

```
Did not find any sas-viya inventory plugin. Please download the latest.  
sas-plugin-cli must be version version or higher
```

Explanation

The sas-viya CLI is not installed or is not the minimum required version.

Resolution

Ensure that the sas-viya CLI is installed at the required minimum version.

The Shared Vault Location Is Invalid

Problem

The following message occurs while running the inventory scan tasks of the Plan and Backup Ansible playbook:

```
Path does not exist. Verify: sharedVaultLocation.
```

Explanation

The shared vault location might be invalid or does not exist.

Resolution

Ensure that you entered the correct value for the SHAREDVAULTLOCATION parameter in the viya-plan-backup-vars.yml file.

The SAS_BACKUP_ID That Was Specified Already Exists

Problem

The following message occurs while running the inventory scan tasks of the Plan and Backup Ansible playbook:

```
Migration Package already exists. Choose another.
```

Explanation

The SAS_BACKUP_ID already exists.

Resolution

Specify another value for the SAS_BACKUP_ID in the viya-plan-backup-vars.yml file or delete the existing backup.

The Temporary Directory Cannot Be Created on the Host

Problem

The playbook creates a temporary directory in `/tmp` on each host that is scanned during the inventory scan tasks of the Plan and Backup Ansible playbook. All required files to run the scans are stored in this directory, and then removed when the playbook is complete.

A message such as the following occurs while running the inventory scan tasks of the playbook:

- No space left on device while performing this task: Copy required scripts on each machine
- Permission denied while performing this task: Create temporary directory structure

Explanation

There might have been problems creating the temporary directory because of inadequate space or permissions.

Resolution

Check the space and permissions on the `/tmp` directory on each host. You can configure a specified location for your temporary files other than `/tmp`.

The INVENTORYRESULTSLOCATION Directory Cannot Be Created

Problem

A message such as the following occurs while running the inventory scan tasks of the Plan and Backup Ansible playbook:

```
There was an issue creating /inventory as requested: [Errno 13] Permission denied:
'/inventory', "path": "/inventory/allScanResults
```

Explanation

The playbook could not create the INVENTORYRESULTLOCATION directory due to inadequate permissions.

Resolution

Check the permissions on the path location specified in the INVENTORYRESULTSLOCATION parameter in the `viya-plan-backup-vars.yml` file.

Sending Results to SAS for Analysis

SAS Can Help

You can send your results from the inventory and system evaluation applications to SAS. Sharing your results with SAS influences future migration development priority. When you publish your results, they are encrypted and protected with an encrypted key. When SAS receives your results, the key and results are decrypted.

A SAS Account Team is assigned to analyze your results and help you develop a SAS Viya migration proposal and roadmap.

Here are the steps:

- 1 Ensure that your results are published, secured, and present in uploadsLocation.
 - If you did not set the prepareUploads and uploadsLocation variables in the viya_plan_backup_vars.yml file before running the inventory or system evaluation application, you can enable sharing now by setting these variables in the viya_plan_backup_vars.yml file and running one or both of these commands:
 - ./MigrationPlanning.sh upload-inventory
 - ./MigrationPlanning.sh upload-evaluate
 - The prepareUploads variable must be set to true before the code check, detect duplicate SAS content, or code dependencies application is run.
- 2 Complete this [form](#) and indicate that it is for SAS Viya 3 Content Assessment.
- 3 Upload the published and secured results using the link provided in the email.
- 4 Ensure that you receive an email back from the SAS Account Team that it received your results.

The SAS Account Team looks at each object type to determine how much content can be converted to the SAS Viya platform. The team researches whether equivalent objects are available on the SAS Viya platform. In some cases, the team can share SAS Viya product release cycles that are beneficial to you. The SAS Account Team and you jointly develop a migration proposal and roadmap so that you can start your move to the SAS Viya platform!

Version History

Summary of 2025.12

- The SAS 9 Profile for SAS Data Sets report includes a column for **Percent Compression**. This value indicates the space saved or lost after compression compared to a data set's original size. A SAS data set can have a negative compression percentage, indicating a loss in space after compression. Some common explanations include a SAS data set with few repeating values or a numeric-heavy SAS data set.
- The SAS Viya Inventory report has been enhanced. It includes a Potential File Duplicates page.
- Enhancements have been made, performance has improved, and issues have been addressed across the applications.

Summary of 2026.02

- The SAS Viya 3 Code Check for SAS Viya report has been enhanced. It includes SAS Content Assessment release information and application execution times.

- A new application—detect duplicate SAS content—is provided in this release. This application finds duplicate SAS programs and data sets.
- Enhancements have been made, performance has improved, and issues have been addressed across the applications.

Summary of 2026.03

- A new application—code dependencies—is provided in this release. This application specifies what input dependencies are needed for a SAS program to run successfully and any output dependencies that the SAS program creates. It informs the user of file dependencies.
- Use of async for the SAS Viya 3 Content Assessment applications has been replaced with the COPY and FETCH commands for the inventory and system evaluation applications.
- Enhancements have been made, performance has improved, and issues have been addressed across the applications.

Summary of 2026.04

- The SAS Viya 3 Code Dependencies for SAS Viya report has been enhanced. It includes runtime metrics.
- The SAS Viya 3 Detected Duplicates report has been enhanced. It includes runtime metrics.
- Enhancements have been made, performance has improved, and issues have been addressed across the applications.

Summary of 2026.05

- Running publish a second time to encrypt results for upload does not occur if running publish the first time fails.
- The playbook has an additional profile login before the inventory scan queries the transfer service.
- Enhancements have been made, performance has improved, and issues have been addressed across the applications.

Summary of 2026.07

- Code check was enhanced to include SAS file information. As a result, all code check reports include a **Steps By Project** tab under **Advanced: Explore Details** that provides step types associated with each scanned SAS file.
- On the **Incompatible Projects** page of all code check reports, a **Frequency** column shows the number of incompatible statements in each file and the total number of statements across all files. An information box with an incompatible count was added to the upper right of the page.
- Inventory scans all autoexec.sas files in the file system and Compute contexts and records any LIBNAME statements that it finds. This information is saved in the allScanResults directory in a file named SASViyaInventory_Libnames_allProducts_mig-allproducts_root.csv. The published version is a file named SASViyaInventory_Libnames.csv and any PII is obfuscated.
- Enhancements have been made, performance has improved, and issues have been addressed across the applications.

Summary of 2026.09

- A new application—summarize SAS log steps—is provided in this release. This application identifies SAS program steps, provides real time and CPU time metrics for optimization on SAS Viya, and identifies runtime issues, table output, and users executing specific programs.
- Enhancements have been made, performance has improved, and issues have been addressed across the applications.