



SAS[®] Viya[®] Platform: Licensing

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Licensing: Overview

Usage of your SAS software is controlled by a license file.

The license is provided with your deployment assets. Obtain these assets from my.sas.com. When you renew your license, use the **Download Only License** button on my.sas.com to obtain the updated license.

The SAS Viya platform provides the license as a JSON web token file.

During installation, a license is applied to both the CAS in-memory compute engine and the SAS programming run-time environment. Apply a new license to enable new products or to extend expiration dates on existing products.

Licensing: Interfaces

There are several interfaces that you can use to manage and to view SAS license information. The following table lists these interfaces, and the shading indicates the relative amount of SAS license administration that each covers:

Table 1 *Interfaces for Licensing the SAS Viya Platform*

	Command-line interface	(Read-Only) A command-line interface that enables you to query SAS license information.
	SAS Environment Manager	(Read-Only) A graphical enterprise web application used to view SAS license information.

How to Apply a New License

Overview

IMPORTANT Only the administrator of the provider tenant can see the License page.

Applying a new license is used to extend the expiration date on offerings that have already been deployed. A **Software License Renewal Confirmation** email is sent to notify you when there is a new license available for an order. The email links to My SAS (my.sas.com), where you can download a new license.

These instructions are for applying the new license without updating the software. If you want to update the software with a patch or version and also apply the new license, see [“Pre-update Checklist” in SAS Viya Platform Operations: Updating Software Tasks](#).

To update your license, use the set of instructions that matches the method by which you are redeploying your software.

IMPORTANT If you apply a new license for your SAS Viya platform software and if you have activated SAS Viya Copilot, you should also renew the secret for the copilot. For the instructions to renew the secret, see [“Managing SAS Viya Copilot” in SAS Environment Manager: User's Guide](#).

Note: Restarting pods after renewing your license is not needed. This statement is true for every method described in this section.

Update Using the Deployment Operator

Note: The user must have deployed with the operator in order to update the license with the operator.

Note: Applying your license using the SAS Viya Platform Deployment Operator requires an outage for your SAS Viya platform. Updating the software as you apply the license requires a longer outage.

IMPORTANT If the `secretGenerator` has a license section in your `kustomization.yaml` file, that license is used regardless of the license included in the deployment assets. Be sure to edit the `kustomization.yaml` file the next time you update the software so that the license provided with the updated deployment assets is used.

IMPORTANT Be sure to check the `kustomization.yaml` file for license information and remove or comment it out. To update the new version manually, see [“Update to a New Version Using Kubernetes Commands” in SAS Viya Platform Operations: Updating Software Tasks](#).

- 1 From My SAS (my.sas.com), click the order for the deployed software.
 - a Click the **Download** tab. The line above the **Asset Type** table indicates the release cadence and the version of SAS Viya platform software that you will deploy. If you want to deploy a different version, find the listing for that version on the page.
 - b Select **License** from the **Asset Type** table, and then click **Download** to download the license file, which is identified by the `.jwt` extension.
- 2 Create the SASDeployment custom resource.
 - a To avoid updating your SAS Viya platform while applying the license, ensure that the `updatePolicy` field in the custom resource is set to “never” or that the cadence variables are set to the values of the current release. For more information, see [“Manage Updates” in SAS Viya Platform: Deployment Guide](#).
 - b Save the `.jwt` file in the `$license` directory using the same naming strategy that was used with the initial deployment.
 - c Re-run the command to create the SAS Deployment custom resource as described in [“Create the SASDeployment Custom Resource” in SAS Viya Platform: Deployment Guide](#), ensuring that the license option specifies the name of the new license.

IMPORTANT The deployment operator might apply patch updates to your SAS Viya platform deployment. These updates can potentially cause intermittent outages or longer outages than the outages that you expect if your SAS Viya platform deployment is using internal PostgreSQL. To prevent these patch updates from being applied, follow the instructions to create the SASDeployment custom resource in the link in this step.

- 3 Apply the custom resource per [“Deployment Using the SAS Viya Platform Deployment Operator” in SAS Viya Platform: Deployment Guide](#).

Note: Before applying the custom resource, ensure that only the files that are needed are included in the `$deploy` directory. For example, `site.yaml` files from earlier manual deployments and old or duplicate `kustomization.yaml` files should be moved from the `$deploy` directory or deleted. For more information about potential errors, see [“Licensing: Troubleshooting” on page 12](#).

Update Using the sas-orchestration Command

Note: To perform some elements of this task, you must have elevated Kubernetes permissions.

- 1 From My SAS (my.sas.com), click the order for the deployed software.
 - a Click the **Download** tab. The line above the **Asset Type** table indicates the release cadence and the version of SAS Viya platform software that you will deploy. If you want to deploy a different version, find the listing for that version on the page.
 - b Select **License** from the **Asset Type** table, and then click **Download** to download the license file, which is identified by the .jwt extension.
- 2 Save the .jwt file in the `$deploy` directory. For more information about the `$deploy` directory, see [“Retrieve Required Files” in SAS Viya Platform: Deployment Guide](#).
- 3 Deploy the software. See [“Deployment Using the sas-orchestration Command” in SAS Viya Platform: Deployment Guide](#).

Update Using Kubernetes Commands

Note: To perform some elements of this task, you must have elevated Kubernetes permissions.

Be advised that these instructions modify the manifest that is derived from the `kustomization.yaml` file such that the license provided in the initial deployment assets is not applied for subsequent software updates.

IMPORTANT If the `secretGenerator` has a license section in your `kustomization.yaml` file, that license is used regardless of the license included in the deployment assets. Be sure to edit the `kustomization.yaml` file the next time you update the software so that the license provided with updated deployment assets is used.

- 1 From My SAS (my.sas.com), click the order for the deployed software.
 - a Click the **Download** tab. The line above the **Asset Type** table indicates the release cadence and the version of SAS Viya platform software that you will deploy. If you want to deploy a different version, find the listing for that version on the page.
 - b Select **License** from the **Asset Type** table, and then click **Download** to download the license file, which is identified by the .jwt extension.
- 2 Save the .jwt file in the `$deploy` directory. For more information about the `$deploy` directory, see [“Retrieve Required Files” in SAS Viya Platform: Deployment Guide](#).

- 3 Find the `kustomization.yaml` file most recently used when creating or updating the deployment. It should be located in the `$deploy` directory where the deployment assets were expanded.
 - a If the `secretGenerator` block does not exist in the `kustomization.yaml` file, add the following code immediately before the `configMapGenerator` block:

```
secretGenerator:
- name: sas-license
  type: sas.com/license
  behavior: merge
  files:
  - SAS_LICENSE=new-license-file
```

IMPORTANT Do not keep more than one `secretGenerator` in your `kustomization.yaml` file.

These lines exist in the default `kustomization.yaml`, but are commented out. Uncomment them if required. This file is described in the [Initial kustomization.yaml File](#) topic in *SAS Viya Platform Deployment Guide*.

Note: Never add a second instance of the `secretGenerator` block.

- b If the `secretGenerator` exists in `kustomization.yaml`, and the `sas-license` content is missing, add the preceding lines to `secretGenerator` block. If the block includes `sas-license` content, ensure that it matches the preceding lines.

Note: Do not modify any content outside the `sas-license` content.

- 4 Deploy the software. See [“Deployment Using Kubernetes Commands” in SAS Viya Platform: Deployment Guide](#).

Update Using the `viya4-deployment` Project

To renew your license through the `viya4-deployment` project, see [Applying a New License for your SAS Viya Platform Deployment](#).

Renew the Secret for Copilot

When SAS Viya Copilot is activated, you can renew your secret in SAS Environment Manager. You must renew the secret in the following situations to continue to use the copilot:

- when the secret expires
- when a new license is applied to your deployment
- when the license expiration date changes

For more information about the SAS Viya Copilot page in SAS Environment Manager, see [“SAS Viya Copilot Page” in SAS Environment Manager: User’s Guide](#).

For more information about setting up the credential and secrets for SAS Viya Copilot, see [“Credential and Secrets Setup for SAS Viya Copilot” on page 7](#).

Credential and Secrets Setup for SAS Viya Copilot

Note: SAS recently updated the secret management technology that interacts with the SAS Viya Orders API. To use SAS Viya Copilot, you must update the SAS Viya platform to 2026.04 or apply a patch update. For more information about updating or applying a patch update, see [SAS Viya Platform Operations: Updating Software Tasks](#). If you created a credential before April 2026, it is likely deprecated. If your credential is not working, delete the credential and follow these instructions to add a new credential.

A SAS Administrator must set up a credential to manage SAS Viya Copilot. You must set up this credential if you do not have a credential or if your current credential is invalid or has expired. The credential is set up using an API key obtained from the SAS Developer Portal to enable the SAS Viya platform to access the SAS Viya Orders API. To configure the API key and secret to gain access to SAS Viya Copilot, follow these steps:

Note: You can proceed to [Step 2 on page 7](#) if you are the owner of the SAS order associated with SAS Viya Copilot or you are a SAS Administrator, and you plan on setting up the copilot. [Step 1 on page 7](#) details how the owner of the SAS order can add a SAS Administrator to the order to set up the copilot.

- 1 Go to [My SAS](#) to manage who can set up the copilot credential and to manage SAS Viya Copilot access:
 - a Navigate to [my.sas.com](#). Sign in or create a SAS Profile account that has SAS Administrator privileges.
 - b Select the order associated with your SAS Viya deployment under the My Orders panel.
 - c Click **Add User** to give other users the capability to set up credentials. These users must have SAS Administrator privileges.
- 2 Configure your firewall ports to enable setup and access to SAS Viya Copilot. For more information, see [“Firewall Ports” in System Requirements for the SAS Viya Platform](#).
- 3 Register an application in the [SAS Developer Portal](#) to acquire an API key:
 - a Navigate to the [Apps tab of the SAS Developer Portal](#).
 - b Sign in with a SAS profile associated with the order.

- c Click **New App**.
 - d Enter a name in the **Name** field, such as copilot. Enter a value in the **Description** field, such as secrets for copilot.
 - e Click **Create**.
 - f These actions generate the API key that permit you to activate or deactivate the copilot and renew the secret. Ensure that you have saved the API key in a secure place for later usage. Secret values are shown only during initial creation. If you do not save these values, you might have to regenerate your secret values.
- 4 Store the API key in a credential in SAS Environment Manager as a SAS Administrator:
- a Navigate to SAS Environment Manager.
 - b Select the **Domains** page. Click on the **OrdersAPIAuth** domain and click  to access your credentials for the OrdersAPIAuth domain.
 - c Click  to add a new credential.
 - d Select **Application** as the identity type value.

Note: Do not encode the values that you acquired from the SAS Developer Portal. You must paste the exact client ID value and a client secret value that you obtained from the portal to properly set up a credential. SAS automatically encodes your client ID and client secret when you create the credential.

Use the value `sas.genAiGateway` for the **Client** field. In the properties section, enter `SAS_ORDERS_API_CLIENT_ID` for the property name and paste the **Client ID** from your API key for the property value. In the secrets section, enter `SAS_ORDERS_API_CLIENT_SECRET` for the secret name and paste one **Client Secret** from your API key for your secret value. The SAS Developer Portal generates two secrets and both secrets create a valid credential, but you use only one secret value for your credential. Your new credential should appear similar to the following tables:

Client
sas.genAiGateway

Property Name	Property Value
SAS_ORDERS_API_CLIENT_ID	Client ID value from the API key

Secret Name	Secret Value
SAS_ORDERS_API_CLIENT_SECRET	One Client Secret from the API key

- e Click **Save** to save your credential in the OrdersAPIAuth domain.

Note: When you edit a credential, you must supply the client secret values again to continue to use the copilot.

- 5 Your secrets expire in one year. SAS recommends that you set up a reminder to create a new secret before your current secret expires. SAS does not store the expiration date of your secret.
 - 6 You must now activate the copilot in the SAS Viya Copilot page of SAS Environment Manager. For more information, see [“SAS Viya Copilot Page” in SAS Environment Manager: User's Guide](#).
-

Note: The **Renew secret** button in SAS Environment Manager does not automatically renew the secret that you obtained from the [SAS Developer Portal](#). That secret expires after one year, then you must set up the credential again.

Licensing: How To View Licenses (SAS Studio)

View SAS Programming Run-Time License Information

- 1 Open a web browser and sign in to SAS Studio with administrator privileges.

Here is an example:

`https://mysasserver.example.com/SASStudio`

- 2 In the programming area, enter the following command:

```
proc setinit; run;
```

- 3 Click .

You should see output similar to the following:

```

1    %studio_hide_wrapper;
77
78    proc setinit;run;
NOTE: PROCEDURE SETINIT used (Total process time):
      real time          0.00 seconds
      cpu time           0.00 seconds

Original site validation data
Current version: V.04.00M0P080520
Site name:      'BUSINESS ANALYTICS SS AT R S'.
Site number:    70180938.
CPU A: Model name='' model number='' serial=''.
CPU B: Model name='' model number='' serial=''.
CPU C: Model name='' model number='' serial=''.
Expiration:     1SEP2024.
Grace Period:   0 days (ending 1SEP2024).
Warning Period: 15 days (ending 16SEP2024).
System birthday: 14AUG2020.
Operating System: LIN X64 .
Product expiration dates:
---Base SAS
Software
18AUG2021 (CPU A)
---SAS/
STAT
18AUG2021 (CPU A)

```

View SAS Cloud Analytic Services License Information

- 1 Open a web browser and sign in to SAS Studio with administrator privileges.

Here is an example:

<https://mysasserver.example.com/SASStudio>

TIP

To obtain license information without running SAS Studio, run the `getLicenseInfo` Action from any CAS programming language client. For more information, see [getLicenseInfo Action](#) in the *SAS Viya Platform: System Programming Guide*.

- 2 In the **Code** tab, enter the following commands:

```

cas casauto;
cas casauto listabout;

```

- 3 Click .

You should see output similar to the following:

```

1  %studio_hide_wrapper;
77
78  cas casauto;
NOTE: The session CASAUTO connected successfully to Cloud Analytic Services
      controller.sas-cas-server-default.chu-ba-ss.svc.cluster.local using port xxxx. The UUID is
      xxxxx-xxxx-xx-xxxx-xxxxxxx. The user is xxxxx and the active caslib is CASUSER(yyyyy).
NOTE: The SAS option SESSREF was updated with the value CASAUTO.
NOTE: The SAS macro _SESSREF_ was updated with the value CASAUTO.
NOTE: The session is using 0 workers.
79  cas casauto listabout;

Section: About
      CAS = Cloud Analytic Services
      Version = 4.00
      VersionLong = V.04.00M0P08052020
      Copyright = Copyright © 2014-2020 SAS Institute Inc. All Rights Reserved.
      ServerTime = 2020-08-26T21:27:58Z

Section: System
      Hostname = controller.sas-cas-server-default.chu-ba-ss.svc.cluster.local
      OS Name = Linux
      OS Family = LIN X64
      OS Release = 3.10.0-957.1.3.el7.x86_64
      OS Version = #1 SMP Thu Nov 29 14:49:43 UTC 2018
      Model Number = x86_64
      Linux Distribution = Red Hat Enterprise Linux release 8.2 (Ootpa)

Section: license
      site = BUSINESS ANALYTICS SS AT R S
      siteNum = 70180938
      expires = 1Sep2024:00:00:00
      gracePeriod = 0
      warningPeriod = 15
      CASHostAccountRequired = OPTIONAL
NOTE: Request to LISTABOUT completed for session CASAUTO.
80
81
82  %studio_hide_wrapper;

```

How To (CLI)

The following examples assume that you have already signed in to the SAS Viya platform at the command line. See [“Command-Line Interface: Instructions when Downloading the CLI” in SAS Viya Platform: Using the Command-Line Interface](#).

Example: List site information, which includes the site name, the site number, the operating system name, the release number, the server date, the grace period, and the warning period.

```
sas-viya licenses site-info list
```

Example: List all products in the system whose name contains “Visual Analytics”.

```
sas-viya licenses products list --name-contains "Visual Analytics"
```

Example: List all products in the system that are expired.

```
sas-viya licenses products list --expired
```

Example: List the products in the system that have these identifiers: 827, 921, and 985.

```
sas-viya licenses products list --product-ids 827,921,985
```

Example: List the number of products with a current license that are deployed.

```
sas-viya licenses count --current
```

Example: List the SAS Data Connector products whose licenses are covered within the grace period.

```
sas-viya licenses data-connectors list --grace
```

See Also

[“Command-Line Interface: Overview” in SAS Viya Platform: Using the Command-Line Interface](#)

Licensing: Troubleshooting

Deployment Operator Custom Resource Is Too Large

Error

When you are performing a deployment with the SAS Viya Deployment Operator and you attempt to apply the SASDeployment custom resource, either of the following error messages is displayed:

```
Error from server (RequestEntityTooLarge)
```

```
The SASDeployment "sas-viya" is invalid: metadata.annotations: Too long: must have at most 262144 bytes
```

Explanation

Applying the custom resource requires that it not exceed a size limit. The RequestEntityTooLarge and Too long errors indicate that the custom resource exceeds that limit.

Resolution

When the custom resource is created, it consumes the content of the \$deploy directory. To minimize the size of the custom resource, ensure that only the files that are needed are included in the \$deploy directory. For example, site.yaml files from earlier manual deployments and old or duplicate kustomization.yaml files should be moved from the \$deploy directory or deleted.