



# SAS<sup>®</sup> Viya<sup>®</sup> 3.5 Administration: Using SAS<sup>®</sup> Environment Manager

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## What Is SAS Environment Manager?

SAS Environment Manager is a web application for managing a SAS Viya environment. It includes a dashboard view, which provides a quick overall look of your environment's health and status, as well as detailed views that enable you to examine and manage your environment in detail.

You can use the application to manage these areas of your environment (some of these functions might not be available to you, depending on your role and the products that are installed):

### Data

- CAS tables, caslibs, other data sources

### Servers

- configuration and information for CAS servers and launcher servers

### User content

- saved reports and data, favorites, and history

### User information

- users and groups from your directory service and SAS groups

### License information

- your SAS licenses and expiration dates.

### System backups

- backups and restores of system data

### Configuration

- configuration data for SAS Viya microservices

### Contexts

- values such as environment variables and port ranges that are used when launching a process

### User-defined formats

- user-defined data formats and format libraries

### Logs

- log messages from SAS applications and services.

### Machines

- information and metric data for the machines and services

### Jobs

- monitoring and scheduling of jobs

### Job flows

- creation, scheduling, and monitoring of job flows (which can contain multiple jobs and conditions)

### Domains

- authentication domains (for storing a user ID and password), encryption domains (for storing an encryption key), and connection domains (for storing a user ID without a password)

### Credentials

- personal credentials for the authenticated user across authentication and connection domains

### Mobile device access

- lists that allow or prevent access to the system by specific mobile devices

#### Rules

access controls and rules that control who can access resources and content in your system

#### Quality Knowledge Bases

collections of files that store data and the logic that define data quality operations such as parsing, standardization, and matching (available only if SAS Data Quality is installed)

#### Publishing destinations

destinations for publishing decisions, models, and rule sets from SAS applications (available only if SAS Model Manager, SAS Decision Manager, or Model Studio is installed)

#### Tenants

information about tenants and status of tenant services (available in a multi-tenant environment only and to provider administrators only)

**Note:** If you are using only the SAS Viya programming interface, SAS Environment Manager is not deployed. See “[Types of Deployment](#)” in *SAS Viya Administration: Getting Started* for more information.

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## Accessing SAS Environment Manager

To access SAS Environment Manager, select **Manage Environment** (under **Administration**) in the **Applications** menu (☰).

**Note:** If you are using only the SAS Viya programming interface, SAS Environment Manager is not available. See “[Types of Deployment](#)” in *SAS Viya Administration: Getting Started* for more information.

When you log on to SAS Environment Manager, if you are a member of the SAS Administrators group, a prompt appears, asking you whether you want to opt in to your assumable groups. If you select **Yes**, your membership in the SAS Administrators group is in effect. See “[Assumable Custom Groups](#)” in *SAS Viya Administration: Identity Management* for more information about assumable groups. The functions that are available to you in SAS Environment Manager depend on your group membership. See “[Predefined Custom Groups](#)” in *SAS Viya Administration: Identity Management* for information about the functions that are available for groups.

If you are the tenant administrator in a multi-tenant system, not all functions are available. See “[What is Available to a Tenant Administrator?](#)” on page 14 for information.

If you access SAS Environment Manager from SAS Visual Investigator, not all functions are available. See “[Accessing SAS Environment Manager from SAS Visual Investigator](#)” on page 15 for information.


To sign out of SAS, use the application bar. Click the avatar button, and then click **Sign out**. When you click **Sign out**, you sign out of all SAS web applications.


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# Using the Dashboard

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## Overview

The Dashboard provides a quick view of the state of your system. It displays a set of tiles and reports, each of which summarizes an aspect of system status. The Dashboard is the default view when you first open SAS Environment Manager. You can return to the Dashboard from any page in SAS Environment Manager by clicking  **Dashboard** from the navigation menu.

Click  then **Refresh** to refresh the data. Some tiles are also automatically refreshed, as noted in the tile's description on this page.

By default, the **Dashboard** displays these tiles:

- **Availability**
- **System Health**
- **Logged Issues**
- **Mobile Devices**

If you are an administrator, you can also display system performance reports on the Dashboard by clicking **Show Reports**. This option is not visible if no reports are selected in the **My Dashboard Items** setting or if no user-created reports are pinned to the Dashboard. See [“Personalizing Your Dashboard” on page 7](#) for more information.

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## Using the Dashboard Tiles

The Dashboard can include these tiles:

### Availability

displays grids of color-coded boxes that correspond to the machines, services, and service instances in your environment. The colors reflect the status of each machine, service, and service instance. A green box indicates that the item is available, a yellow box indicates that it is partially available or in a warning state, and a red box indicates that it is unavailable.

The grids are updated every ten seconds.

Selecting a box in one of the grids highlights the corresponding boxes in the other two grids. The box that you selected is outlined with a solid line, and the associated boxes are outlined with a dashed line. These are the associations between the selected boxes:

- When you click on a box in the **Machines** grid, the services and service instances that are running on that machine are highlighted in the **Services** and **Service Instance** grids. If a machine is identified as unavailable, the service instances on that machine are identified as unavailable as well.
- When you click on a box in the **Services** grid, the machines where that service is running are highlighted in the **Machines** grid, and the instances of the service are highlighted in the **Service instances** grid.

- When you click on a box in the **Service instances** grid, the machines where the service instance is running are highlighted in the **Machines** grid, and the service is highlighted in the **Services** grid. A pop-up box also displays the name of the service and the machine address for the machine where the service is running. In SAS Viya 3.5, some services have been combined to reduce their footprint. If you select one of these combined services, the pop-up box displays the old service name in the **Service** field, and the new combined name in the **Host service** field.


**Note:** To deselect a box, hold down the Ctrl key and click the box. You can also hold down the Ctrl key and press the spacebar.

Place your cursor over a box to view the name of the machine, service, or service instance.

Double-click on a box in the **Machines** grid to open the Machine Status dialog box, which lists the services that are running on that machine and their availability. Click **Machine Details** from the Machine Status dialog box to open the Machines page for the selected machine.

Click on a box in the **Service instances** grid to view the machine address and port where the instance is running.

**Note:** Place your cursor over or click on an instance of the postgres service to also identify whether the instance is a pgpool instance, whether it is a primary or standby data node, and whether the node has ssl enabled.

Use the **Filter** field to display only certain machines, services, and service instances. When you type characters in the **Filter** field and click  or press the **Enter** key, the boxes displayed in the **Availability** area change. The boxes that are displayed either match the filter that you specify or are associated with the boxes that are displayed. For example, entering “**laun**” in the **Filter** field might cause two **Services** boxes to display (for the Launcher service and the Launcher server), only the **Service instance** boxes associated with the displayed services, and only the **Machines** boxes associated with the displayed services.

## System Health

displays graphs that give you a quick view of the state of the nodes (machines) in your SAS Viya cluster for a selected CAS server. The data displayed on the graphs reflects all of the work taking place on the nodes, not just CAS operations. If you are on a UNIX system, the tile displays the **Node Memory Usage** and the **Load Average** graphs. Use the buttons at the top of the tile to select the graph that you want to view. If you are on a Windows system, only the **Node Memory Usage** graph is displayed.

If your environment contains more than one CAS server, a menu above the graph enables you to select the server to view. When you log on to SAS Environment Manager, this tile attempts to connect to the default CAS server. If the default server cannot be found, the tile displays information for the first server to which it can connect. If it can connect to the default server, but the server does not respond within five seconds, the tile displays a message. You can then retry the server or choose another server. See [“SAS Cloud Analytic Services: Overview”](#) in *SAS Viya Administration: SAS Cloud Analytic Services* for more information on CAS servers.

You specify the default server in the `casManagement` configuration property. See [“Configuration Properties: How to Configure Services”](#) in *SAS Viya Administration: Configuration Properties* for more information.


The **Node Memory Usage** graph displays the host memory usage for each node in your cluster. This graph is displayed on both UNIX and Windows systems. Each bar represents a separate node. Bars for controller nodes use a different color than bars for worker nodes. The colors that are displayed depend on the theme that you use. Position your pointer over a bar on the graph to view the name of the node, its type, and its memory usage.

**Note:** If your environment contains both a primary and a secondary controller node, this graph displays information only for the controller that is currently active.

The **Load Average** graph displays the 1-minute load average over the past five minutes for the nodes in your cluster. This graph is displayed only on UNIX systems. The chart updates every ten seconds. Each node is represented by a separate line on the graph. The vertical scale of the graph changes depending on the largest value being displayed in the chart. Position your pointer on any of the lines on the graph to view the name of the node and the load average at the selected time.


The graphs update every ten seconds.

### Logged Issues

displays a time series graph of the number of ERROR and FATAL level log messages captured by SAS Viya log files in the previous 30 minutes. Only the top five sources of ERROR and FATAL messages are included. If there have been no ERROR or FATAL messages in the past 30 minutes, a message is displayed in place of the graph. To view details about the messages or to filter the displayed messages, click  and then select **Open** to display the **Logs** page. This tile is updated when you refresh the Dashboard.


### Custom Groups

displays the name and number of members for the top five custom groups (by number of members). Custom groups are created to control access to SAS Viya features. If you have a sufficient authorization level, you can use the **Users** page to manage custom groups. See [“Access to Functionality: Overview” in SAS Viya Administration: Access to Functionality](#). This tile refreshes whenever the Dashboard is reloaded.

If you have the proper authorization, click on  and then click **Open** to display the **Users** page.

### Mobile Devices

displays the type of mobile device access control in use and the number of successful and unsuccessful logon attempts. You can use the **Mobile Devices** page to manage mobile device access and view detailed information about access attempts. See [“Mobile: How To” in SAS Viya Administration: Mobile](#). This tile refreshes whenever the Dashboard is reloaded. If you do not have a sufficient authorization level, this tile does not appear.

If you have the proper authorization, click on  and then click **Open** to display the **Mobile Devices** page.

### Reports

You can display two types of reports on the Dashboard.

User-selected reports are selected by right-clicking on the report in the Content page and selecting **Pin to dashboard**. References to the selected reports are stored in the folder `Users/user_name/Application Data/SAS Environment Manager/Dashboard Items`. Any user can pin reports to their dashboard.

System performance reports are provided by default in SAS Viya and are available to SAS administrators only. These reports are available:

#### Application Activity

performance and usage by application. See [“Monitor Application Activity” in SAS Viya Administration: Monitoring](#) for more information about this report.

#### CAS Activity

CPU, memory usage, and system performance for CAS. See [“Monitor CAS Activity” in SAS Viya Administration: Monitoring](#) for more information about this report.

#### Disk Space

disk usage history and forecast. See [“Monitor Disk Space” in SAS Viya Administration: Monitoring](#) for more information about this report.

#### Infrastructure Data Server Tables

size and usage for SAS Infrastructure Data Server tables. See [“Monitor SAS Infrastructure Data Server Tables” in SAS Viya Administration: Monitoring](#) for more information about this report.

**Message Queue Activity**

activity and traffic on the RabbitMQ message exchanges that are used by the operations infrastructure. See “[Monitor Message Queue Activity](#)” in *SAS Viya Administration: Monitoring* for more information about this report.

**System Activity**

memory and CPU usage and network activity. See “[Monitor System Activity](#)” in *SAS Viya Administration: Monitoring* for more information about this report.

**User Activity**

reports based on audit records. See “[View Audit Record Reports and Tables](#)” in *SAS Viya Administration: Auditing* for more information about this report.

**SAS Viya Inventory**

merged information from the various scans that are run by the inventory plug-in to the sas-admin CLI. See “[Publish](#)” in *SAS Viya Administration: Using the Command-Line Interfaces* for more information about this report.

By default, the reports are hidden. Click **Show Reports** to display thumbnails for the reports. If you display the reports and then log out of SAS Environment Manager, the reports are displayed when you log back in to SAS Environment Manager.


Select  in any report tile and then click on **Open** to display the full report in SAS Report Viewer.

Click  and  to change the displayed reports.

The CAS tables that are used to create these reports are refreshed every five minutes. During a deployment, it might take longer than five minutes for data to appear in these reports. This delay is variable and depends on how quickly SAS Infrastructure Data Server, RabbitMQ, CAS, and authentication services are operational and able to respond.

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## Personalizing Your Dashboard

- To add or remove a tile, at the top of the window, select the avatar button, and then select **Settings**. In the Settings dialog box, select **Dashboard**. Select the check boxes for the tiles that you want to display on the Dashboard.
- To remove a tile that is currently displayed on the Dashboard, click  and then click **Unpin**.
- To choose which system status reports to display on the Dashboard, select the avatar button, and then select **Settings**. In the Settings dialog box, select **Public Dashboard Items**. Select the check boxes for the reports that you want to display on the Dashboard. These reports are available to administrators only.
- To add a system status report to those provided by default, place the report in the folder / **Products/SAS Environment Manager/Dashboard Items**. An administrator can then pin the report to the reports in their Dashboard.
- To add a report to your dashboard, navigate to the report in the **Content** area of SAS Environment Manager. Right-click on the report in the folder tree and select **Pin to dashboard** from the pop-up menu. The report is added to the report gallery and is copied to the folder `/user/Application Data/SAS Environment Manager/Dashboard Items`.
- To choose which of your reports to display on the **Dashboard**, select the avatar button, and then select **Settings**. In the Settings dialog box, select **My Dashboard Items**. Select the check boxes for the reports that you want to display on the Dashboard.

**Note:** If you do not select any reports in the **My Dashboard Items** list or you do not pin any reports to the Dashboard, the report container and the options **Show Reports** and **Hide Reports** do not appear on the Dashboard.

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## SAS Environment Manager Functions

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### Accessing the Functions

To access a SAS Environment Manager page, select it from the navigation bar.

Depending on your organization's environment and authorization policies, you might not have access to all pages. If you are not a member of the SAS Administrators group, or you do not opt in to the group, you can access only the **Dashboard**, **Data**, **Servers**, **Content**, **Jobs and Flows**, and **My Credentials** pages. **Quality Knowledge Bases** is also available if SAS Data Quality is installed. Your organization might also use other groups that could restrict your ability to access certain pages. See [“Access to Functionality: Overview”](#) in *SAS Viya Administration: Access to Functionality* for more information.

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### Data

Select  **Data** from the navigation menu to view and manage your data and data sources. You can select three views of your data.

The **Available** view displays information about all of the data tables that have been loaded into CAS memory. The view displays basic information for the selected table, such as the number of columns and rows, size, location, and dates of creation and last modification. The **Details** tab for a selected table displays detailed information about each variable in the table such as the type, name, label, raw length, formatted length, format used, and tags assigned. The **Sample Data** tab displays a selected number of rows of data (the default is 100). The **Profile** tab displays any selected profiles for the table and enables you to run a profile job for the table. From the Available view, you can also select the table for importing and view the table's authorization.

The **Data Sources** view enables you to create a connection between a caslib and either a database server or a remote file system. You can navigate through the data source to locate a data table. When you select a data table, the **Details**, **Sample Data**, and **Profile** tabs are all available, as in the **Available** view.


The **Import** view enables you to create a connection between a caslib and either a local file, social media content, or Esri data. You can also create a connection between a caslib and a table or file on the **Data Sources** tab.

See [“Understanding SAS Data Explorer”](#) in *SAS Data Explorer: User's Guide* for more information.



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## Servers

Select  **Servers** to display information about the SAS Viya servers. The window displays basic information about the servers, such as the state, host, and port. While in the **Servers** view, you can also view detailed properties and system metrics for the server, including the settings and configuration values for the server and the users and groups that are superusers for the server. If you have the proper authorization, you can also assume the superuser access for the server, which enables you to edit the additional settings and configuration values.

See “[SAS Cloud Analytic Services: How To \(SAS Environment Manager\)](#)” in *SAS Viya Administration: SAS Cloud Analytic Services* for more information.

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## Content

Select  **Content** from the navigation menu to display folders that contain items that you have saved. When you open the Content page, you have access to your own data in the **My Folder** folder. If you have administrative access, you can also view the folders of other users by navigating to **Folders** ⇒ **SAS Content** ⇒ **Users**. From this page, you can create, delete, move, and rename folders, create shortcuts, and manage the authorization for any folder or item that you select (if you have sufficient authorization). You can also export the reports in a folder to a package file and import the reports from a package file into a folder.

These folders are available in the **Folder** view:

### **My Favorites**

contains references to items identified as favorites, to enable quick access to often-used reports and data.

### **My Folder**

contains items that you have saved.

### **SAS Content**

contains folders and items from SAS applications in your environment

### **Shared**

contains items that are shared between users. These items are stored in two subfolders, **Shared by me** and **Shared with me**.

### **Recycle Bin**

contains items that you delete from a folder. From the Recycle Bin, you can permanently delete the items or restore them to their original locations.

### **Application Data**

contains items used by SAS Viya applications, such as items pinned to a user’s Dashboard in SAS Environment Manager.


### **My History**

contains a list of the most recent items that you have accessed. You can select entries in this folder to quickly return to items that you have worked with recently.

See “[Folders: How To](#)” in *SAS Viya Administration: Folders* for more information.

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## Users


Select  **Users** from the navigation menu to view information about users and groups, and to manage custom groups. The information displayed for users and groups comes from your organization's directory service (such as LDAP or Microsoft Active Directory). Because this information is managed by your identity provider, it is displayed as read-only data in SAS Environment Manager.

You can also manage custom groups on the **Users** page. Custom groups enable you to manage special permissions for groups of users.

See [“View User and Group Information”](#) in *SAS Viya Administration: Identity Management* for more information.

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## Licensed Products

Select  **Licensed Products** from the navigation menu to view information about the licenses for your products. You can view a list of all your currently licensed products and see the expiration date, grace period, warning period, and maximum CPU count for each one. You can filter the list by any of the displayed criteria to make it easier to find products in the table.

See [“Licensing: Overview”](#) in *SAS Viya Administration: Licensing* for more information.

**Note:** This page is not available for a tenant administrator.

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## Backup and Restore

Select  **Backup and Restore** from the navigation menu to back up and restore your environment.

See [“Backup and Restore: Overview”](#) in *SAS Viya Administration: Backup and Restore* for more information.

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## Configuration

Select  **Configuration** from the navigation menu to manage the configuration values for SAS Viya services. You can select from a list of basic services, all services, or definitions. When you select a service, the service's configuration properties are displayed on the right side of the window. Click  to change any of the displayed properties.

See [“Introduction”](#) in *SAS Viya Administration: Configuration Properties* for more information.

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
## Contexts

Select  **Contexts** from the navigation menu to manage launcher contexts. A context is a collection of values such as environment variables and port ranges that are used when launching a SAS Viya

instance. You can also specify values for a deployment, such as the deployment ID and the installation and configuration directories.


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## User-Defined Formats

Select  **User-Defined Formats** to display information about all of the user-defined formats and format libraries that are available for the data. The window displays a list of available user-defined formats and format libraries. You can add and import new formats, as well as edit, copy, and delete existing formats. You can import formats from a SAS item store, although some steps are required outside of SAS Environment Manager. You can also create, delete, and change the search order of format libraries. This function is available for administrators only.

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## Logs


Select  **Logs** from the navigation menu to view information about messages that have been written to the logs. You can view a chart of the number of log messages and a table of the detailed messages. By default, the chart and table reflect the messages logged during the previous 30 minutes, but you can select a different time range. You can also search for a specific message or filter the messages by level and source.

See [“Logging: Overview” in SAS Viya Administration: Logging](#) for more information.

**Note:** This page is not available for a tenant administrator.

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## Machines

Select  **Machines** from the navigation menu to monitor the machines in your environment and the service instances running on those machines. You can view this information:


- charts of the percent of CPU utilization and memory used for each machine
- status of predefined checks (such as disk or memory usage) for the selected machine
- service instances running on the selected machine, along with their current state
- properties for the selected server

See [“Monitoring: How To \(SAS Environment Manager\)” in SAS Viya Administration: Monitoring](#) for more information.

**Note:** This page is not available for a tenant administrator.

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## Jobs or Job and Flows

Select  **Jobs** or **Jobs and Flows** from the navigation menu to monitor and schedule jobs and job flows. A job flow is a group of jobs, dependencies, and conditions that are organized in a sequence and can be scheduled as a group. Flows contain objects (such jobs, gates, and events) and connections (that define the order in which objects are evaluated in the flow).

If you have a license for SAS Job Flow Scheduler, the page is titled **Jobs and Flows**, and you can monitor and schedule jobs and view, edit, and schedule job flows. If you do not have a SAS Job Flow Scheduler license, the page is titled **Jobs**, and you can monitor and schedule only jobs.


You can perform these tasks:

- View a table or a chart of jobs that are currently running and that have run in a specified time in the past.
- Filter the jobs to narrow the number of jobs displayed and change the time period for displaying jobs.
- Re-run jobs and delete jobs.
- Create new jobs from SAS DATA step programs.
- Schedule jobs to run at a particular time or in response to a specific trigger.
- Run a scheduled job immediately.
- Create time-based triggers to control when scheduled jobs run.
- Unschedule, delete, and view the properties of scheduled jobs.
- Create, edit, and schedule job flows (if you have a SAS Job Flow Scheduler license).
- Manage CAS tables.

See [“Jobs and Flows: Overview”](#) in *SAS Viya Administration: Jobs and Flows* for more information.

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## Domains

Select  **Domains** from the navigation menu to manage domains used for authentication, encryption, and connection.

See [“About the Domains Page”](#) in *SAS Viya Administration: External Credentials* for more information.


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## My Credentials

Select  **My Credentials** from the navigation menu to create and manage credentials for authentication, encryption, and connection domains. See [“Manage My Credentials”](#) in *SAS Viya Administration: External Credentials* for more information.

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## Mobile Devices

Select  **Mobile Devices** from the navigation menu to manage how mobile devices access certain reports. You can use either a blacklist or a whitelist. If you use a whitelist, all mobile devices are blocked except for those listed in the whitelist. If you use a blacklist, all mobile devices are allowed except for those listed on the blacklist. The **Mobile Devices** page displays a table of recent access attempts by mobile devices, the devices listed in the blacklist, and the devices listed in the whitelist. The page indicates whether the blacklist or the whitelist is being enforced, and it enables you to select which list to use. You can also add devices to either list.

See [“Mobile: How To”](#) in *SAS Viya Administration: Mobile* for more information.

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## Rules

Select  **Rules** from the navigation menu to manage access to specific locations and content.

See “[General Authorization: How To \(Rules Page\)](#)” in *SAS Viya Administration: General Authorization* for more information.


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## Quality Knowledge Bases

Select  **Quality Knowledge Bases** from the navigation menu to view and manage Quality Knowledge Bases. Quality Knowledge Bases are collections of files that store data and logic that define data quality operations such as parsing, standardization, and matching. This area is available only if you have licensed SAS Data Quality. See [SAS Viya Administration: QKB Management](#) for more information.


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## Publishing Destinations

Select  **Publishing Destinations** from the navigation to manage destinations for publishing decisions, models, and rule sets using SAS Decision Manager, SAS Model Manager, and Model Studio. You can create, edit, delete, and view properties for destinations. This area is available only if SAS Model Manager, SAS Decision Manager, or Model Studio is installed and if you opt in to the SAS Administrators group when you sign in to SAS Environment Manager. See “[Publishing Destinations: How To](#)” in *SAS Viya Administration: Publishing Destinations* for more information.

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## Tenants

If you are the provider administrator of a multi-tenant environment, select  **Tenants** from the navigation menu to view information about tenants and tenant services.

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## How To

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### Work with Information Displayed in Tables

See “[Tables](#)” in *SAS Viya Web Applications: General Usage Help* for tips on controlling how data is displayed in SAS Environment Manager tables.

**Note:** Not all of the tables in SAS Environment Manager use all of these features.

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## Manage Settings

### Access Settings

To access the Settings window, select the avatar button in the upper right of the SAS Environment Manager window. Select **Settings** from the pop-up menu.

### General

The **General** section includes values that enable users to change the appearance of the web applications, enable warning and information messages to be displayed, and choose a profile picture. See [“General” in SAS Viya Web Applications: General Usage Help](#) for information about these values.

### Region and Language

The **Region and Language** section includes values that enable users to specify the locale for regional formats and sorting, as well as for offline processes. See [“Region and Language” in SAS Viya Web Applications: General Usage Help](#) for information about these values.

### Accessibility Settings

Several settings in the **Accessibility** section can assist people who rely on assistive technologies. Accessibility features are part of the global settings, which are applied to all SAS web applications. Accessibility features are not specific to SAS Environment Manager. See [“Accessibility” in SAS Viya Web Applications: General Usage Help](#) for information about these values.

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## What is Available to a Tenant Administrator?

If you are the tenant administrator in a multi-tenant system, these functions are not available:

- Licensed Products
- Tenants
- Logs
- Machines

By default, the Dashboard for a tenant administrator contains these items:

- **System Health** tile
- **Mobile Devices** tile
- **Top 5 Custom Groups** tile
- Personal reports that are pinned to the Dashboard

Other Dashboard items that are listed in this document are not available to tenant administrators.

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## Accessing SAS Environment Manager from SAS Visual Investigator

If you access SAS Environment Manager from SAS Visual Investigator, these functions are not available:

- **Data**
- **Licensed Products**
- **Backup and Restore**
- **Contexts**
- **User-Defined Formats**
- **Logs**
- **Machines**
- **Jobs**
- **Domains**
- **My Credentials**
- **Mobile Devices**

These items are available on the Dashboard:

- **Availability** tile
- **System Health** tile
- **Top 5 Custom Groups** tile (not displayed by default)
- Personal reports that are pinned to the Dashboard

Other Dashboard items that are listed in this document are not available.

