Overview

It is important to regularly back up directories that contain site-specific settings and information. In the event of a machine failure, you can then restore the system to its state as of the most recent backup.

Backups are not performed automatically. They can be performed programmatically by using the createBackup action.

How To

Back Up CAS Access Controls and Caslib Information

CAUTION! It is strongly recommended that you periodically back up each CAS server’s stored access control and caslib information. Backups are particularly important after you modify access controls or add, delete, or modify global caslibs.

You can perform a backup programmatically by using the createBackup and completeBackup actions.

Note: You need to be an administrator to perform a backup.

To back up a CAS server’s access controls and caslib information:

1 Create a session.
   
   ```
   options cashost="cloud.example.com" casport=5570;
   cas casauto;
   ```

2 To perform the backup, run the following code in SAS Studio:
proc cas;
accessControl.assumeRole /
  adminRole="SuperUser";
accessControl.createBackup /
  path="/my/backup/location";
accessControl.completeBackup;
accessControl.dropRole / adminRole="SuperUser";
quit;

Copy the backup location directory to a location where it can be saved. If you do not specify path=" ", the backup location is the directory named backup. This directory is in the permstore option location. It is under the directory named for the fully qualified DNS name of the machine that runs the main controller. For more information about permstore see “Access Control Options” in the “Reference” section of the SAS Viya Administration: SAS Cloud Analytic Services.

Restore CAS Server Access Controls and Caslib Information

To restore a CAS server’s access controls and caslib information.

1 Stop the server. See Start and Stop Cloud Analytic Services in SAS Viya Administration: Servers.

2 Copy the permstore directory and its contents from the backup location to /opt/sas/viya/config/etc/cas/default. Make sure the Preserve the folder’s permissions is checked when making the copy.

3 Restart the server. See Start and Stop Cloud Analytic Services in SAS Viya Administration: Servers.

Back Up Configuration Information

The following files and directories might contain site-specific settings and should be included in your regular system backups:

/opt/sas/viya/config/etc/cas/default/controller.lua
/opt/sas/viya/config/etc/cas/default/cas.hosts
/opt/sas/viya/config/etc/SASStudio/default/init_usermods.properties
/opt/sas/viya/config/etc/SASStudio/default/appserver_usermods.sh
/opt/sas/viya/config/etc/spawner/default/spawner_usermods.sh
/opt/sas/viya/config/etc/workspaceserver/default/autoexec_usermods.sas
/opt/sas/viya/config/etc/workspaceserver/default/sasv9_usermods.cfg
/opt/sas/viya/config/etc/workspaceserver/default/workspaceserver_usermods.sh
/opt/sas/viya/config/etc/workspaceserver/default/autoexec_usermods.sh

If your site has created global folder shortcuts for SAS Studio, you should back up the directory that contains the shortcuts. By default, the shortcuts are stored in the following directory:

/opt/sas/viya/home/SASFoundation/GlobalStudioSettings

Note: Your site might have configured a different directory for the shortcuts. For details, see “Configuration Properties: How To” in SAS Viya Administration: Configuration Properties.