

Administering SAS[®] Viya[®] 3.5 exam

Managing a SAS Viya Environment

Understand and administer programming run-time servers

- Administer SAS Studio Basic and SAS Studio Enterprise.
- Identify the process owner.
- Lockdown options for compute and workspace servers.

Administer the CAS Server

- Add and remove worker nodes in an MPP environment.
- Manage CAS server roles.
- Understand CAS server configuration files .
- CAS resource management
- CAS disk cache
- Add CAS Server.

Update a SAS Viya deployment

- Update SAS License.
- Determine the appropriate circumstances under which to run the Ansible playbook (i.e. hotfixes, etc.)
- Review software order.
- Apply hotfixes.

Backup and restore SAS Viya environment

- Perform ad hoc backup.
- View backup and recovery history.
- Modify backup schedule.
- Perform full or partial recovery from a backup.
- Use the SAS backup manager in SAS Environment Manager.
- Backup other components of the Viya deployment that are not included in default and binary backups.

Understand and administer Viya servers and services

- Start/Stop servers and services in the correct order in a distributed environment.
- Start/Stop an individual server/service.
- Understand server components.
- Given a scenario, define which server or service is utilized.

Understand SAS Viya architecture

- Determine the type of environment (distributed, individual, programming only, etc.).
- Determine when to define the backup controller CAS server.
- Design environment for high availability and fault tolerance.

Monitoring, logging and troubleshooting in a SAS Viya Environment

Monitor the SAS Viya Environment

- Modify logging levels using Environment Manager.
- Evaluate resources available.
- Diagnose server and service problems using logs.
- Monitor CAS sessions.
- Review server configuration information.
- Monitor services using the machines page.
- Monitor your environment using Gridmon.sh.
- Use the SAS-Ops CLI to monitor your environment.
- Monitor using the Healthcheck CLI.

Understand the SAS Viya Operations Infrastructure

- Manage the Operations infrastructure data mart.
- Create reports from the operations infrastructure data.
- Explore system and audit reports.

Manage server logging

- Configure server logging (SAS logging facility and other configuration options).
- Manage SAS configuration server Logging.
- Manage run-time server logging (loggers, appenders, logging thresholds).

Identity and User management

Manage SAS Viya identities

- Identity synchronization with ldap: identity filtering, identity caching; configuration properties
- Manage membership of custom groups and CAS roles (understand difference between groups and custom groups).
- CASHostAccountRequired Custom Group
- Reset sasboot password if necessary or not required.

- Set up assumable custom group SAS Administrators.
- Set up membership to CAS superuser role.
- Modify memberships to other custom groups.

Manage external credentials

- Create authentication domains.
- Make a distinction between authentication domains, connection domain, and encryption domains.
- Manage stored credentials.

Content and Functionality Management

Promote content in SAS Viya

- Import content from SAS 9.4: folders, reports, explorations; libraries and tables for LASR and Base; most metadata groups; most explicit access control entries (ACES) for promoted objects.
- Import content from SAS Viya 3.x: folders, reports, data plans, statistical models, etc.; all direct access controls for promoted objects; all direct rules for promoted objects.
- Use EVM or the CLI tools to promote and map resources.

Manage and secure SAS Viya Content

- Navigate the folder content structure: short cuts; predefined folders; child members; reference members.
- Create folders through EV or CLI; view content properties...
- View and edit authorization for folders and folder objects.
- Manage access to folders and objects (through authorization window in EV; CLI; rules page in EV); Sharing.
- Troubleshoot authorization issues.

Administer Access to functionality

- Modify rules in order to limit or grant more access to the capabilities of Viya applications.
- Give users, groups, and custom groups access to functionality.

Data management in SAS Cloud Analytic Services (CAS)

Create and manage caslibs

- Understand CAS data architecture.
- Understand loading data into CAS memory.
- Use an authentication domain in a caslib definition.

Perform data management tasks

- Manage CAS authorizations.
- Manage User-defined formats.
- Automate data refresh from a caslib.

Note: All 16 main objectives will be tested on every exam. The 68 expanded objectives are provided for additional explanation and define the entire domain that could be tested.