1. Stand up two separate deployments of SAS Viya stable-2021.2.3:

* Both are identical in configuration and environment
  + Except one has Reusable Compute Servers enabled and the other doesn't
* For the Viya env with Reusable Compute:
  + Enable reusable compute, with 8 running minimum:

SAS Environment Manager > Contexts > Compute Contexts > Data Mining compute context > add new attributes:

* + reuseServerProcesses: true
  + runServerAs: sastest1
  + serverInactiveTimeout: 900
  + serverMinAvailable: 8

* For both Viya env, increase the user pod limit:

|  |
| --- |
| $ **kubectl set env deploy sas-launcher SAS\_LAUNCHER\_USER\_PROCESS\_LIMIT=100**   deployment.apps/sas-launcher env updated |

\* And confirm:

|  |
| --- |
| $ **kubectl describe deploy sas-launcher | grep SAS\_LAUNCHER\_USER\_PROCESS\_LIMIT**   SAS\_LAUNCHER\_USER\_PROCESS\_LIMIT:                100   SAS\_LAUNCHER\_USER\_PROCESS\_LIMIT\_ENABLED:        true |

* Increase analytics concurrent jobs:

SAS Environment Manager > Configuration > Advanced Analytics Flows service > sas.analytic.flows > edit the Maximum Concurrent Nodes > increase from 5 to 16.

* Delete the sas-arke and sas-analytics-services pods to pickup the change to sas.analytic.flows

2. Construct analytics test in both env:

* SAS Model Studio > New Project > selecting:
* Type: Data Mining and Machine Learning
* Template: Advanced template for interval target with autotuning
* Data: sashelp.HEART
* Open the new project and in the data, select CHOLESTEROL as the Target variable
* Run the pipeline in each environment

3. Review the results:

* The environment without Reusable Compute runs successfully (runtime ~8.5 min).
* In the environment with Reusable Compute Servers, failure (runtime ~5.5 min):
* The Imputation node fails and no log is provided. Direct child nodes do not run (which is an improvement over earlier releases, ).
* The Ensemble node fails and the only error in the log is, "ERROR: The models cannot be ensembled because the run status of model d74de41d-9ef4-441f-98cd-a1e282d7510e cannot be retrieved."