

Single Day Event

Building a functioning web application on SAS
platform, using SAS Studio and SAS Job Execution

- Pritesh Desai
Principal Strategic Advisor
SAS HLS
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Agenda

- Introduction to SAS Viya Platform.
- Introduction to SAS Studio.
- Introduction to SAS Job Execution.
- How to build your project 1 & 2?
- Samples and exercise by peers.



Introduction to SAS Viya Platform

SAS Viya is the latest architecture release from SAS. **SAS Viya is your one-stop-shop for all your analytic needs.** Think of it as a suite of products that do things like data preparation, data visualization, model building, etc., all running on a very powerful in-memory engine.

SAS
Programmer



Business
Analyst



Data
Scientist



Open-Source
Programmer

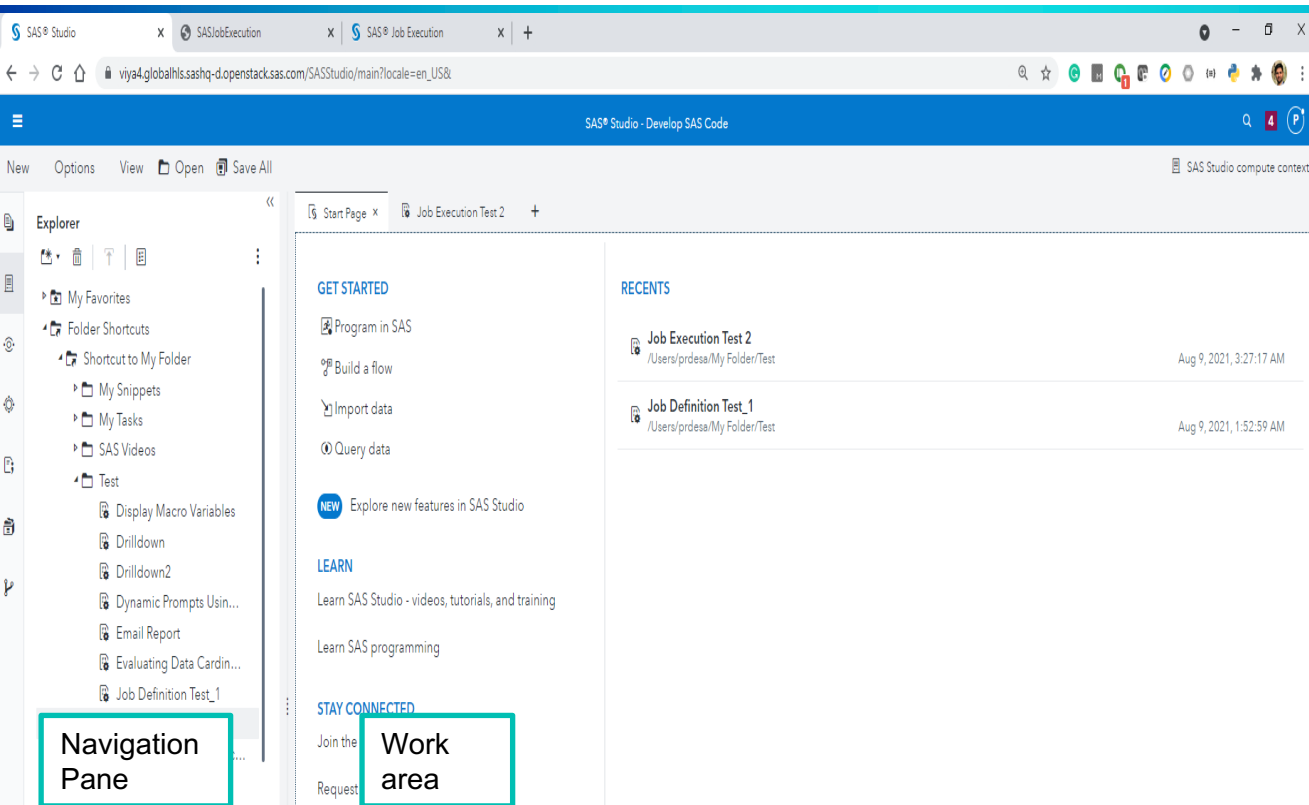


Executive





Introduction to SAS Studio



SAS Studio is a tool that you can use to write and run SAS code through your **web browser**. With SAS Studio, you can access your data files, libraries, and existing programs and write new programs. When you use SAS Studio, you are also using SAS software behind the scenes. SAS Studio connects to a SAS server in order to process SAS commands. After the code is processed, the results are returned to SAS Studio. SAS Studio supports multiple web browsers, such as Apple Safari, Google Chrome, Microsoft Edge, Microsoft Edge on Chromium, and Mozilla Firefox.

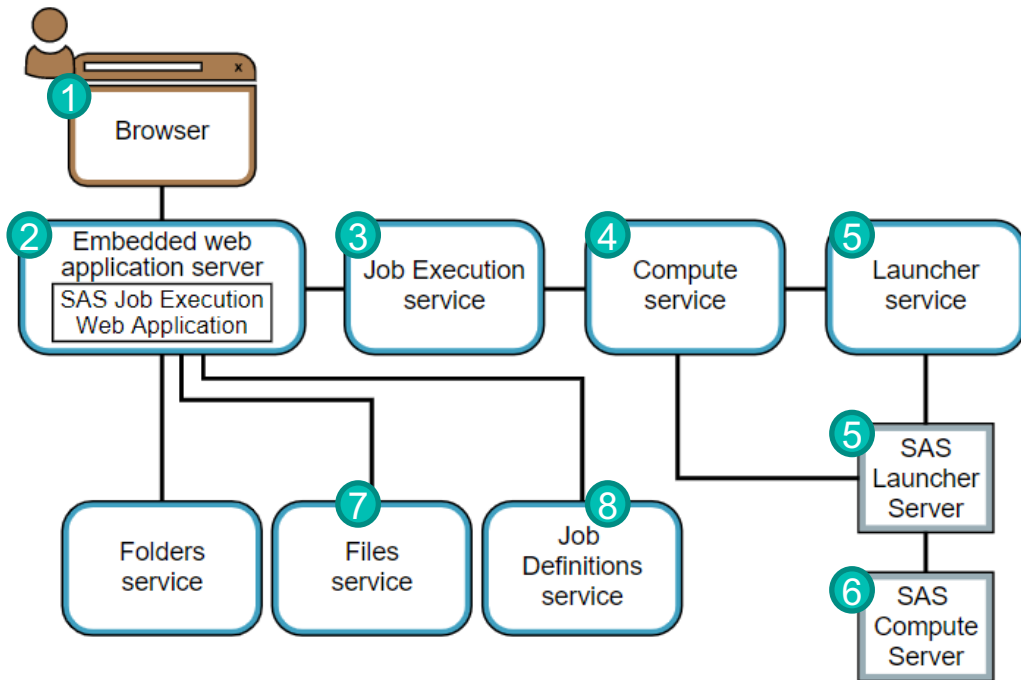
[SAS Studio Link](#)

[SAS Studio link on Working with Jobs](#)



Introduction to SAS Job Execution

Components of Running a Job



New file

Name: *

Description:

File type:

Job definition

Server:

Compute

Compute context:

SAS Job Execution compute context

Cancel

Details	
Created:	July 23, 2021 03:42:38 PM
Created by:	prdesa
Modified:	July 23, 2021 03:47:31 PM
Modified by:	prdesa
Job details:	/jobDefinitions/definitions/517f00be-6a49-4ef2-abdd-19af9a1af2f9
Job submit:	https://viya4.globalhlts.sashq-d.openstack.sas.com/SASJobExecution/7_program=

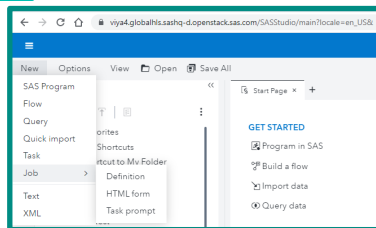
[SAS Job Execution Web Application Link](#)



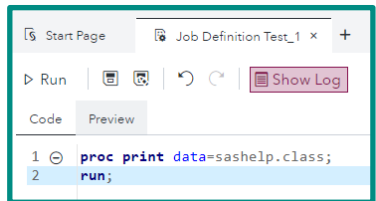
How to build your project part 1?

SAS Studio

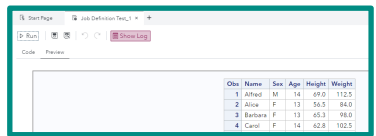
- Create a Job Definition
Note: Access via SAS Studio



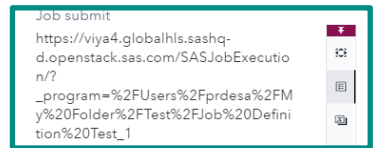
- Enter the SAS code & save Job Definition.
`proc print data=sashelp.class;`
`run;`



- Run the job and preview the output

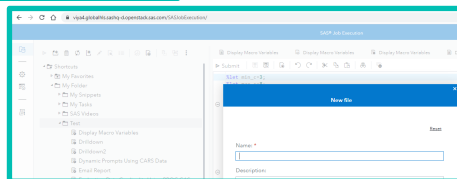


- Access a job via a URL in a browser

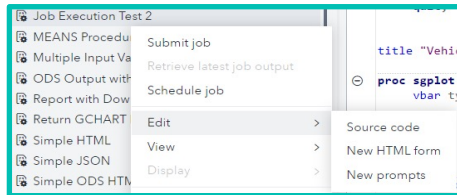


SAS Job Execution

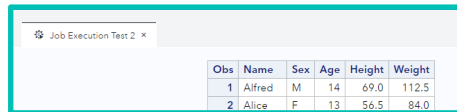
- Create a Job Definition
Note: Access via SAS Job Execution a separate interface



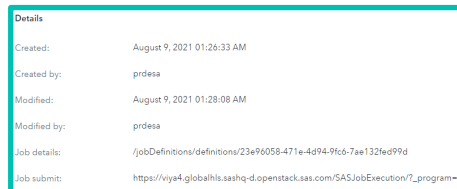
- Enter source code & save sas code.
`proc print data=sashelp.class;`
`run;`



- Submit and preview the code



- Access a job via a URL in a browser





- Add Parameters

Name:

Field type:

Character

Default value:






- Pass parameter in URL using '&' name of parameter and value

```
n/7_program=%2FUsers%2Fprdesa%2FMy%20Folder%2Ftest%2FJob%20Definition%20Test_1&title=test
```

test

Obs	Name	Sex	Age	Height	Weight
1	Alfred	M	14	69.0	112.5

- Associating a Form via HTML or Task Prompt

Note: E.g., shows
common task model

The screenshot shows the SAS Job Definition Test_1 interface. The top bar includes a 'Start Page' button and a 'Show Log' button. Below the top bar is a table with three columns: 'Code', 'Task prompt', and 'Preview'. The 'Code' column contains the following SAS code:

```
1 %Global datasource title;
2 title "&title";
3 proc print data=&datasource;
4 run;
```

The 'Task prompt' column is empty, and the 'Preview' column is empty. The 'Run' button is highlighted in blue.

viya4.globalhls.sashq-d.openstack.sas.com/SAS

Submit

DATA

DATA

SASHELP.CLASS

Filter: (none)

/SAS/jobExecution/?

Listing of Class Data

Obs	Name	Sex	Age	Height	Weight
1	Alfred	M	14	69.0	112.5

SAS Job Execution

- Add Parameters

```
%global title;
title "&title";
proc print data=sashelp.class;
run;
```

GetInfo()	
Details	
Parameters*	

Parameters	
Name *	contextName
Default value:	SAS Job Execution
Field type:	Character *
Name *	title
Default value:	Listing of Class Des
Field type:	Character *

- Pass parameter in URL using '&' name of parameter and value

```
SASJobExecution/?_program=/Users/prdesa/My%20Folder/Test/job%20Execution%20Test%202&title=test2
```

- Associating a Form via HTML or Task Prompt

Note: E.g., shows
HTML

```
%global dataset title;
title "&title";
proc print data=&dataset;
run;
```

[illegible]

SAS® Job Execution
Data set:

tion/?jobexec=%2FjobExecution%2Fjobs%2F6bbcb4b7-761e-40e7-b43c-065464b2f57a0_debug=128

Listing of Class Data

Obs	Name	Sex	Age	Height	Weight
1	Alfred	M	14	69.0	112.5



Samples and exercise by peers

- Teri Patsilaras: [Viya Jobs in a SAS Visual Analytics report](#)
- Robert Anderson's: [Creating Custom Web Applications with SAS Viya Jobs](#)
- Xavier Bizoux's: Create a SAS Viya Job with a prompt using Task Prompts [Article](#) | [YouTube](#)
- Xavier Bizoux's: Data Entry in SAS Visual Analytics 8.1 Series: [Part 1](#) | [Part 2](#) | [Part 3](#) | [YouTube](#)
- Xavier Bizoux's: VA Report Example: Geographic data, SAS Viya Jobs, Data Driven Content, and REST APIs! [Article](#) | [YouTube](#)
- Mike Drutar's: [Executing a JES Job Using JavaScript](#)
- Mike Drutar's: [Creating JES Prompts and Output Using the Viya Reports API](#)



The Global Healthcare Data Science Community

Contact Channels

- 📞 UK +44 1843 609600
- 📞 USA +1 609 514 5105
- ✉️ office@phuse.global
- 🌐 phuse.global

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- 📘 [/phusebook](https://facebook.com/phusebook)
- ▶️ [/phusetube](https://youtube.com/phusetube)
- 🌐 [/company/phuse](https://linkedin.com/company/phuse)