**Topic: SAS VA in AWS Quickstart**

## **Definition and Scope:**

Create an AWS Quickstart template for SAS Viya deployments.

AWS Quickstart is basically an AWS Cloudformation template that stands up infrastructure and optionally installs software on it. The final template lives in a public github repository and is also listed on the [AWS Quickstart page](https://aws.amazon.com/quickstart/).  
  
The Quickstart template will allow system administrators to lay down a SAS install on AWS with “one click”, providing just the SAS ansible playbook as input.

## **Requirements**

* **License**

“Bring your own Playbook”. The playbook zip file that customers receive when they order the software would be an optional input to the Quickstart. If provided, the software will be deployed on the provisioned Infrastructure. If not provided, only the infrastructure will be created.

* **Product Mix**

Viya/VDMML or subsets  
SAS/Access Products: can be part of the product mix. DB client pieces NOT in scope of Quickstart (customer would have to install manually on VM(s))

* **Product Version**  
  Start with 17w12. As 17w47 becomes available, add it or switch to it.
* **Base OS**

Question: should OS be optional? Rhel 7.?, Centos 7.? Amazon Linux?

* **Identity Provider**  
  Proposal: Provide OpenLDAP with a few default users by default. Users can later reconfigure Viya to point to their own Identity Provider.   
  NB: switching provider for SAS/Studio is more involved, since it requires ldap/sssd configuration on SAS/Studio VM, in addition to the SAS/Viya identity service value changes.
* **CAS Server Sizing**Will depend on the license.
* **Instance Types**  
  Proposal: start with i3.2xlarge. NB: need restart disk provisioning.
* Compliance (NIST, PCI) – no provisions at this point
* **Data Persistence**  
  Optional EBS volumes for SAS/Studio and Controller host.
* Provide for both SMP and MPP
* Provide checks for successful restart of Viya stack after Stop/Start of stack.

## **Interactions with Other Teams**

* TS: if we use BYOL, software support should be as for other purchased software.   
  Question: what about infrastructure questions? How should TS route them? Should TS be involved in this project early on to build awareness and know-how about AWS infrastructure?
* Deployment Testing: the deployments should be independently tested  
  Question**:** how to staff the testing? Should the prospective testers involved early to become familiar with the project?  
  Question: is other testing needed? Pen Testing? Performance Testing? Others?

## **Timeline**

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2 weeks – learn Quickstart, iron out open questions  
2 weeks – establish cooperation with AWS  
6 weeks – develop and test template  
4 weeks – finalization: testing, legal, marketing

## **References**

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| Quickstart | <https://aws.amazon.com/quickstart/> |
| Quickstart Build Process Overview | <https://aws-quickstart.github.io/option3.html> |
| Quickstart Build Process Details | <https://aws-quickstart.github.io/building.html> |
| CoreCompete’s SAS Grid Quickstart (just infrastructure, no SAS Software) | <https://github.com/aws-quickstart/quickstart-sas-grid/>  <https://aws.amazon.com/quickstart/architecture/sas-grid-infrastructure/> |
| Erwan Grangers CloudFormation demo | <http://sww.sas.com/blogs/wp/gate/14362/the-unattended-deployment-viya-3-2-edition/canepg/2017/04/07>  https://gitlab.sas.com/cloudup/ViyaBareOSAutomation/ |

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