

SOLACE QUEUE PRODUCER SIMULATOR (FOR TESTING)

1. Focus

This document focuses on producing alarm data for testing purpose of solace interface on the test server in data collection and configuration.

2. Steps to produce alarm data

The below steps include starting a Kubernetes pod on the test server which pushes alarm data to the solace-event-broker, and terminating the pod.

Step 1. Starting the pod: To start the pod, we need to run the **deploy-solace-producer.yaml** file on the test server. To run this file execute the following command:

```
kubectl apply -f deploy-solace-producer.yaml -n avanseus-workspace
```

```
[ec2-user@ip-172-31-28-252 ~]$ ls
65.2.62.244_13.233.31.132.pem      canupgradedb_new.tar.gz      KPIEquipmentDiscoverRule.java    PMKPIreference.csv
65.2.62.244_13.233.88.226.pem     canupgradedb.tar.gz          KPI_Input_Output_Files           prediction_testing_dump
airtel_dump                       canupgradedb.zip             KPI_Input_Output_Files.tar.gz    rbac.yaml
alarm_ACCESS_TRANSPORT_15_08_2022.csv certs                          ldap_pv.yaml                      script.sh
ansible_demo                      class.yaml                   logs_new.txt                      ServiceMesh
ansible_test                      cpuoutput.log                logs.txt                           splunk-8.2.1-ddff1c41e5cf-Linux-x86_64.tgz
ansible_test_demo                 CXDataLoad                   MasterTables                       Superposed_inter.dat
ansible_test_five                 deployment.yaml               metricpush                         temp
avanseuscanvn.com-0002            DOCKER_FILES                 MG_sample_201811_BST_ALARM_FILE.csv test_metrics.sh
AVANSEUS_README.txt              dump2                        MG_sample_201811_BST.csv          test.sh
AWS_HELM                         export.ldif                   mongo_pv.yaml                     universal_SIMD
aws_kubeadm.conf                  Gateway_Metric_HPA            mongotest                         universal_SIMD.tar.gz
BuildingCAN                       input04052020040000.dat      NFS_STORAGE_HELM                  userRoot.tar.gz
calrepairoutput.txt               input.dat                     Nginx_Configuration_files         yash
CAN7.0                            IVC_data                     nokiaDump                         yash_CAN7.0
can_pv.yaml                       js_test                      output.file                        out.txt
canupgradedb                     kafka_2.13-2.8.0.tgz
canupgradedb_new1.tar.gz
[ec2-user@ip-172-31-28-252 ~]$
[ec2-user@ip-172-31-28-252 ~]$
[ec2-user@ip-172-31-28-252 ~]$ kubectl apply -f deploy-solace-producer.yaml -n avanseus-workspace
pod/solace-producer created
[ec2-user@ip-172-31-28-252 ~]$
```

Upon running the command above, the solace-producer pod will be initiated, and 1000 records of alarm data will be pushed at the beginning of every minute to solace-event-broker at IP:Port - 10.107.62.188:55555.

```
[ec2-user@ip-172-31-28-252 ~]$ kubectl get pods -n avanseus-workspace
```

NAME	READY	STATUS	RESTARTS	AGE
ansibleprocessor-7d58d75df6-lgr2v	2/2	Running	4	153d
batch-54b44c58fc-b2tjg	2/2	Running	14	153d
bcxp-75f8f65b77-qvzs4	2/2	Running	2	127d
can-79777d8d8b-m584m	2/2	Running	0	17h
controller-bd88f5db6-4qmpd	2/2	Running	0	124d
jsprocessor-7696f9c76f-xn4zc	2/2	Running	0	40m
ldap-85fc5bd785-9vqb8	2/2	Running	4	153d
memcached-796f78c8d8-pnqrl	2/2	Running	0	17h
mongo-0	2/2	Running	0	124d
opendjldap-5459fd8579-4mnfj	2/2	Running	14	153d
pcp-5b654bd96f-bc269	2/2	Running	0	23d
pythonprocessor-6486fc77b6-knq22	2/2	Running	4	153d
record-68875c7cd5-b7l69	2/2	Running	2	70d
rtrca-7cb5fb9d5b-c5k6h	2/2	Running	2	32d
sermetricspusher-796866866-w5stf	2/2	Running	0	103d
solace-event-broker-0	2/2	Running	1	76d
solace-producer	2/2	Running	0	20s
vbi-566875dcc9-tm7p5	2/2	Running	4	153d
worker-56b6d6dbc-6zgt2	2/2	Running	0	70d
worker-56b6d6dbc-w8t7w	2/2	Running	0	70d
worker-56b6d6dbc-wkl7z	2/2	Running	2	70d

```
[ec2-user@ip-172-31-28-252 ~]$
```

Step 2. Terminating the pod: Once the required number of test data has been pushed, the solace-producer pod must be terminated to prevent it from pushing data every minute to the solace-event-broker. To terminate the pod, execute the following command:

```
kubectl delete pods solace-producer -n avanseus-workspace
```

```
[ec2-user@ip-172-31-28-252 ~]$
[ec2-user@ip-172-31-28-252 ~]$ kubectl delete pods solace-producer -n avanseus-workspace
pod "solace-producer" deleted
[ec2-user@ip-172-31-28-252 ~]$
```