

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                          cputoutput.log        logs.txt            splunk-8.2.1-ddff1c4ie5cf-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  nfsmount          userRoot.tar.gz
calrepairoutput.txt                  input.dat           NFS_STORAGE_HELM    yash
CAN7.0                               IVC_data            Nginx_Configuration_files  yash_CAN7.0
can_pv.yaml                          js_test              nokiaDump          yash
canupgradedb                         kafka_2.13-2.8.0.tgz  output.file        out.txt
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-56b6d6dcbbc-6zgt2          2/2    Running   0          70d
  worker-56b6d6dcbbc-w8t7w          2/2    Running   0          70d
  worker-56b6d6dcbbc-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 ~]$
```