Setup and Debugging

- Prerequisites for setting up Nextgen Gateway
- Multipass setup (Optional)
 - Installation
 - Check List of Multipass OS Images
 - Create new VM
 - Check Lists of VMs
 - Connecting to the VM shell
 - Mount Host files to VM
- K3S Installation in VM
 - Install Command
 - Update OS Path variables
 - To Run, K3S commands without sudo
- Helm installation in VM
 - Installing Helm
 - New helm commands
 - Old helm commands(just for reference)
- Download Nextgen Gateway binary
 - Download and move to binary to (/usr/local/bin)
- Registering Nextgen Gateway
- Verifying K3S pods, nodes, and their memory usage
- Accessing vprobe logs
- Accessing Content DB
- Debugging Device Reachability
 - Third-party python/Golang apps
- Modify log level
 - Third-party python/Golang apps
 - Java apps running inside vprobe
- Debugging Content DB Data
 - Get Discovery Configuration
 - Get Monitoring Configuration
 - Get Credentials Configuration
 - Get Resource Configuration
 - Get Discovery Jobs
 - Get Monitoring Jobs
 - Get Store Names
 - · Get Keys from the Store
 - Get Keys and Values from the Store
 - Get Value using Key from the Store
 - Remove data from the store using key
 - Flush data from the Store
- Debug NATS Messages
- **Content Dependencies**
- Update latest vprobe image in existing Gateway
- Replace vprobe image locally
- Build docker images with multi-platform support
- Installing a third-party python app in Nextgen Gateway
 - Add registry details to k3s
 Restart K3S

 - Install Nats
 - Restart vprobe
 - Install App

Prerequisites for setting up Nextgen Gateway

- Ubuntu 18+
- RAM: 8 GB
- Disk: 40 GB
- CPU 4 Core CPU



Please note that only one flavor of Kubernetes is installed in your VM. Otherwise, you will get port binding issues. If you have microk8s in your VM then you need to uninstall the microk8s and install the K3S.

Command for Uninstall microk8s

sudo snap remove microk8s

Multipass setup (Optional)



You can use your own VM or install multipass on your laptop and use it for testing

- *Multipass is a lightweight VM manager for Linux, Windows, and macOS. It's designed for developers who want a fresh Ubuntu environment with a single command.
- *Recommended for DEV, QA team should have dedicated vm for testing, multipass vms will be stopped when we shutdown our Laptop

Installation

sudo snap install multipass

Check List of Multipass OS Images

sudo multipass find

Create new VM

sudo multipass launch -c 2 -m 8G -d 40G 20.04 -n nextgen-gateway

Check Lists of VMs

sudo multipass list

Connecting to the VM shell

sudo multipass shell nextgen-gateway

Mount Host files to VM

mkdir multipass_nextgen_gateway_data
sudo multipass mount multipass_nextgen_gateway_data/ nextgen-gateway:/home/ubuntu/nextgen_gateway_data/

K3S Installation in VM



Before installing K3S, we need to connect to VM shell reference: ConnectingtotheVMshell

Install Command

curl -sfL https://get.k3s.io | INSTALL_K3S_EXEC="--cluster-init --disable traefik" sh --

Update OS Path variables

Add below two properties to the environment file (/etc/environment)

KUBECONFIG=/etc/rancher/k3s/k3s.yaml
HELM_EXPERIMENTAL_OCI=1

exit from VM shell and login back to apply the changes

To Run, K3S commands without sudo

copy k3s.yml content to the lens configuration to view k8s objects, replace the IP address by checking the IP address of the VM in multipass list

sudo chmod 755 /etc/rancher/k3s/k3s.yaml

Helm installation in VM



Before installing helm, we need to connect to VM shell reference: ConnectingtotheVMshell

Installing Helm

```
curl -fsSL -o get_helm.sh https://raw.githubusercontent.com/helm/helm/main/scripts/get-helm-3 \
    && chmod 700 get_helm.sh \
    && ./get_helm.sh -v v3.8.2 \
    && rm -rf get_helm.sh
```

New helm commands

- helm pull oci://us-docker.pkg.dev/gateway-images/gateway-cluster-charts/dell-sdk-app --version 1.0.0
- tar -xvzf dell-sdk-app-1.0.0.tgz
- helm package dell-sdk-app
- helm push dell-sdk-app-1.0.0.tgz oci://us-docker.pkg.dev/gateway-images/gateway-cluster-charts/

Old helm commands(just for reference)

- helm chart pull us-docker.pkg.dev/gateway-images/gateway-cluster-charts/dell-sdk-app:1.0.0
- helm chart export us-docker.pkg.dev/gateway-images/gateway-cluster-charts/dell-sdk-app:1.0.0
- helm chart save dell-sdk-app us-docker.pkg.dev/gateway-images/gateway-cluster-charts/dell-sdk-app:1.0.0
- helm chart push us-docker.pkg.dev/gateway-images/gateway-cluster-charts/dell-sdk-app:1.0.0



Next gen gateway helm charts will be deployed using new helm binary, going forward we should use new helm commands for helm lifecycle

Download Nextgen Gateway binary



Connect to VM shell reference: ConnectingtotheVMshell to install Nextgen Gateway binary

Download and move to binary to (/usr/local/bin)

```
wget https://storage.googleapis.com/opsramp_cluster_gateway_asserts/collector-cli/linux/amd64/opsramp-collector-
start
sudo cp opsramp-collector-start /usr/local/bin
sudo chmod 755 /usr/local/bin/opsramp-collector-start
```

Registering Nextgen Gateway



Connect to VM shell reference: ConnectingtotheVMshell to register Nextgen Gateway

```
sudo opsramp-collector-start install -e k8s --url sdk.app.opsramp.net --key <management profile activation token>
```

After running the above command the gateway will get registered

Verifying K3S pods, nodes, and their memory usage

```
kubectl get pods
NAME
                              READY STATUS RESTARTS AGE
nextgen-gw-0 3/3 Running 0 8mls svclb-nextgen-gw-udp-q699t 2/2 Running 0 8mls
kubectl get nodes
                   READY STATUS RESTARTS AGE
NAME
nextgen-gw-0
                              3/3 Running 0 8mls
svclb-nextgen-gw-tcp-6rwwx2/2Running0svclb-nextgen-gw-udp-q699t2/2Running0
                                                               8m1s
                                                              8m1s
kubectl top pods --containers
                              NAME CPU(cores) MEMORY(bytes)
POD
                                             Om ZMI
                             nativebride
nextgen-gw-0
                             postgres
vprobe
nextgen-gw-0
nextgen-gw-0 vprobe 46m svclb-nextgen-gw-tcp-6rwwx lb-tcp-162 0m svclb-nextgen-gw-tcp-6rwwx lb-tcp-514 0m svclb-nextgen-gw-udp-q699t lb-udp-514 0m svclb-nextgen-gw-udp-q699t lb-udp-514 0m
                                                           730Mi
                                                           OMi
                                                           0Mi
                                                           OMi
svclb-nextgen-gw-udp-q699t lb-udp-514 0m
                                                            OMi
kubectl top nodes
                   CPU(cores) CPU% MEMORY(bytes) MEMORY%
nextgen-gateway 158m 7% 1785Mi
                                                        22%
kubectl describe pod nextgen-gw-0
kubectl describe node nextgen-gateway
```

Accessing vprobe logs

```
kubectl exec -it nextgen-gw-0 -c vprobe -- /bin/bash
gateway@nextgen-gw-0:/opt/gateway/vprobe$ tail -200f /var/log/app/vprobe.log
```

Accessing Content DB

```
kubectl exec -it nextgen-gw-0 -c vprobe -- /bin/bash
gateway@nextgen-gw-0:/opt/gateway/vprobe$ cat /opt/gateway/content/cache.db
```

Debugging Device Reachability

Third-party python/Golang apps

gcli> sdkappdebug <base64 encoding JSON>

Example

gcli@gateway>sdkappdebug

ewoiYXBpVmVyc2lvbiI6ImRlYnVnL3YxIiwKImlvZHVsZSI6ICJEZXZpY2UiLAoiYXBwIjogImRlbGwtc2RrLWFwcCIsCiJhY3Rpb24i0iAiUmVh Y2hhYmlsaXR5IiwKInBheWxvYWQi0iB7CiAgICAidmNlbnRlck5hbWUi0iJ2Y2VudGVyNSIsCiAgICAicHJvdG9jb2wi0iJodHRwIiwKICAgICJp cEFkZHJlc3Mi0iIxNzIuMjUuMjUyLjE5MyIsCiAgICAicG9ydCI6IjQ1MDAwIgp9Cn0=

Received SDK App Debugging request

{ "message":200}

gcli@gateway>sdkappdebug

ewoiYXBpVmVyc2lvbiI6ImRlYnVnL3YxIiwKImlvZHVsZSI6ICJEZXZpY2UiLAoiYXBwIjogImRlbGwtc2RrLWFwcCIsCiJhY3Rpb24i0iAiUmVh Y2hhYmlsaXR5IiwKInBheWxvYWQi0iB7CiAgICAidmNlbnRlck5hbWUi0iJ2Y2VudGVyNSIsCiAgICAicHJvdG9jb2wi0iJodHRwIiwKICAgICJp cEFkZHJlc3Mi0iIxNzIuMjUuMjUyLjE5NCIsCiAgICAicG9ydCI6IjQ1MDAwIgp9Cn0=

Received SDK App Debugging request

{"message": "Device not rechable"}

Modify log level

Third-party python/Golang apps

gcli@gateway> sdkapplog <App name> <Container name> <LOG LEVEL>

Example

gcli@gateway>sdkapplog dell-sdk-app app DEBUG Successfully changed log level to DEBUG

gcli@gateway>sdkapplog dell-sdk-app sidecar DEBUG Successfully changed log level to DEBUG

Java apps running inside vprobe

gcli@gateway> loglevel <get/set> <fully qualified class name> Level<ERROR, WARN, INFO, DEBUG> TimeoutInMin

Example

 ${\tt gcli@gateway} \\ {\tt loglevel set com.opsramp.app.processor.handlers.DiscoveryHandler DEBUG 60} \\ \\ {\tt formula} \\ {\tt handlers.DiscoveryHandler DEBUG 60} \\ {\tt$

gcli@gateway>loglevel get com.opsramp.app.processor.handlers.DiscoveryHandler Current log level for com.opsramp.app.processor.handlers.DiscoveryHandler is DEBUG

Debugging Content DB Data

Get Discovery Configuration

gcli> sdkgetdiscoveryconfig <Config ID>

Example

```
gcli> sdkgetdiscoveryconfig ADAPTER-MANIFEST-7dad7a0f-00c3-41cd-9431-b9a0259a6877
{"messageId":"a54fb900-b7ef-43f0-a256-e2c233e5b44a","messageVersion":"2.0.0","appIntegrationId":"INTG-5a24cdee-401a-44f4-afff-e7afa49a88cf","managementProfileId":"5c86c874-e347-4789-8a2d-951c9d614e8d","gateway":"5c86c874-e347-4789-8a2d-951c9d614e8d","gateway":"5c86c874-e347-4789-8a2d-951c9d614e8d","module":"Discovery","subtype":"Configuration", "app":"dell-powerflex","action":"
Update","appVersion":"1.0.0","configurationId":"ADAPTER-MANIFEST-7dad7a0f-00c3-41cd-9431-b9a0259a6877","
configurationName":"dell-powerflex-test","payload":{"data":{"isSecure":"true","notificationAlert":"false","alertConfiguration":"false","dellFlexGatewayIP":"16.20.24.28","credentialId":[{"fieldName":"gatewayCredentials","value":"FUzjmyuTgUrPVFYNR7bGnEEF"}]],"nativeTypes":{"Dell PowerFlex SDC":{"resourceType":"STORAGE_ARRAY"},"Dell PowerFlex SDS":{"resourceType":"STORAGE_ARRAY_VSERVER"},"Dell PowerFlex VTree":
{"resourceType":"Storage"},"Dell PowerFlex Device":{"resourceType":"Storage"},"Dell PowerFlex MDM Cluster":
{"resourceType":"Storage"},"Dell PowerFlex Storage Pool":{"resourceType":"STORAGE_ARRAY_POOL"},"Dell PowerFlex Protection Domain":{"resourceType":"STORAGE_ARRAY_POOL"},"Dell PowerFlex Protection Domain":{"resourceType":"STORAGE_ARRAY_Slare,"sha":"do5a077e45d252c810448a742a087a9ae5d23daadlc6f462d1d4ec964ld19c28"}
```

Get Monitoring Configuration

gcli> sdkgetmonitoringconfig <template id>

Example

```
gcli> sdkgetmonitoringconfig f3255e76-58c7-4c4d-89de-c9c0f8c3f437
 \begin{tabular}{ll} \be
Monitoring","subtype":"Configuration","action":"Update","payload":{"templateId":"f3255e76-58c7-4c4d-89de-
c9c0f8c3f437", "nativeType": "Dell PowerFlex System", "monitors": { "Dell PowerFlex System Monitor dell-powerflex
Dell PowerFlex System ":{"name":"Dell PowerFlex System Monitor dell-powerflex Dell PowerFlex System ","uuid":"
4dc6b23f-883a-4160-ala5-2bbe32271316", "frequency":5, "metrics":{ "dell_powerflex_system_CapacityUtilization":
{ "availibityMetric":false, "units": "%", "graph": { "graphPoint":true }, "notification": { "raiseAlert":true, "alertOn": "
Static","warn":{"operator":"NONE","value":"0","repeat":1},"critical":{"operator":"NONE","value":"0","repeat":
1\}\}\,,\\ "formatPlottedValue":false\}\,,\\ "dell\_powerflex\_system\_UnusableCapacity":\{"availibityMetric":false,\\ "units":"availibityMetric":false,\\ "units":\\ "u
 \texttt{GB","graph":{"graphPoint":true},"notification":{"raiseAlert":true,"alert0n":"Static","warn":{"operator":"NONE","} } 
value":"0","repeat":1\},"critical":\{"operator":"NONE","value":"0","repeat":1\}\},"formatPlottedValue":false\},"
dell_powerflex_system_TotalUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_ThinUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_ThickUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_SystemCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_SnapUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_RebalanceCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
dell_powerflex_system_AvailableCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
Polling Monitor dell-powerflex Dell PowerFlex System ":{ "name": "Dell PowerFlex Event Polling Monitor dell-
powerflex Dell PowerFlex System ","uuid":"6b1ca802-f6d0-4f40-9e29-d3af9429c689","frequency":5,"metrics":
{"dell_powerflex_system_CapacityUtilization":{"availibityMetric":false,"units":"%","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_UnusableCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_TotalUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_ThinUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_ThickUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_SystemCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_system_SnapUsedCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
dell_powerflex_system_RebalanceCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
dell_powerflex_system_AvailableCapacity":{"availibityMetric":false,"units":"GB","graph":{"graphPoint":true},"
notification":{"raiseAlert":true,"alertOn":"Static","warn":{"operator":"NONE","value":"0","repeat":1},"
critical":{"operator":"NONE","value":"0","repeat":1}},"formatPlottedValue":false},"
dell_powerflex_event_Statistics":{"availibityMetric":false,"graph":{"graphPoint":true},,"notification":
NONE","value":"0","repeat":1}},"formatPlottedValue":false}}}},"templateCustomization":
{"customComponentThresholds":[]}}, "sha":"224796aff3df084f627105c086035807276bf16f9d7b7f5614f1bbd855fe31a4"}
```

```
gcli> sdkgetcredentialconfig <credentials ID>
```

Example

```
gcli> sdkgetcredentialconfig FUzjmyuTgUrPVFYNR7bGnEEF
{"messageId":"a54fb900-b7ef-43f0-a256-e2c233e5b44a","messageVersion":"2.0.0","appIntegrationId":"INTG-5a24cdee-
40la-44f4-afff-e7afa49a88cf","managementProfileId":"5c86c874-e347-4789-8a2d-95lc9d6l4e8d","gateway":"5c86c874-
e347-4789-8a2d-95lc9d6l4e8d","module":"Discovery","subtype":"Configuration","app":"dell-powerflex","action":"
Update","appVersion":"1.0.0","configurationId":"ADAPTER-MANIFEST-7dad7a0f-00c3-4lcd-9431-b9a0259a6877","
configurationName":"dell-powerflex-test","payload":{"data":{"isSecure":"true","notificationAlert":"false","
alertConfiguration":"false","dellFlexGatewayIP":"16.20.24.28","credentialId":[{"fieldName":"
gatewayCredentials","value":"FUzjmyuTgUrPVFYNR7bGnEEF"}]},"nativeTypes":{"Dell PowerFlex SDC":{"resourceType":"
STORAGE_ARRAY"},"Dell PowerFlex SDS":{"resourceType":"STORAGE_ARRAY_VSERVER"},"Dell PowerFlex VTree":
{"resourceType":"Storage"},"Dell PowerFlex Device":{"resourceType":"Storage"},"Dell PowerFlex System":
{"resourceType":"Storage"},"Dell PowerFlex Volume":{"resourceType":"STORAGE_ARRAY_POOL"},"Dell PowerFlex
Protection Domain":{"resourceType":"STORAGE_ARRAY_POOL"},"Dell PowerFlex
Protection Domain":{"resourceType":"STORAGE_ARRAY_"}}},"requireAck":false,"sha":"
d05a077e45d252c810448a742a087a9ae5d23daadlc6f462dld4ec9641d19c28"}
```

Get Resource Configuration

```
gcli> sdkgetresourceconfig <Resource UUID>
```

Example

```
gcli> sdkgetresourceconfig 7d40c3d8-ea9c-4450-a59b-986037aelec4
{"messageId":"6f276fe5-70b3-439d-9807-5bbbe96a1903","messageVersion":"2.0.0","module":"Monitoring","subtype":"
Resource","action":"Update","managementProfileId":"5c86c874-e347-4789-8a2d-951c9d614e8d","payload":{"resources":
{"resourceId":"7d40c3d8-ea9c-4450-a59b-986037aelec4","moId":"08a9c0c351862e0f","appConfigId":"ADAPTER-MANIFEST-
7dad7a0f-00c3-41cd-9431-b9a0259a6877","signature":"to be filled","templateCustomization":{},"credentialId":[],"
templates":[{"templateId":"f3255e76-58c7-4c4d-89de-c9c0f8c3f437","app":"dell-powerflex","nativeType":"Dell
PowerFlex System"}]}},"sha":"5ac0682df18242adlf0b5491243637e992ba56fecea0ea90cf6b2125da22c367"}
```

Get Discovery Jobs

```
gcli> sdkgetdiscoveryjobs <app name> <config id>
```

Example

```
gcli> sdkgetdiscoveryjobs dell-powerflex ADAPTER-MANIFEST-5a178c98-33c2-4e07-81f6-9f43306684f5

JOBNAME dell-powerflex@Discovery@INTG-f45eb892-eb17-47cf-86df-845fle4bb3lc@ADAPTER-MANIFEST-5a178c98-33c2-4e07-81f6-9f43306684f5 , JOBDetails Discovery JOB DETAILS {"messageId":"90e834d7-27f6-4ced-bf57-8845c5190541","
messageVersion":"2.0.0","appIntegrationId":"INTG-f45eb892-eb17-47cf-86df-845fle4bb3lc","managementProfileId":"
5c86c874-e347-4789-8a2d-95lc9d614e8d","gateway":"5c86c874-e347-4789-8a2d-95lc9d614e8d","module":"Discovery","
subtype":"Configuration", "app":"dell-powerflex", "action":"Update", "appVersion":"1.0.0", "configurationId":"
ADAPTER-MANIFEST-5a178c98-33c2-4e07-81f6-9f43306684f5","configurationName":"dell-powerflex", "frequency":"0 1,31
* * * ? *", "payload": {"issecure": true", "notificationAlert":"false", "alertConfiguration":"false","
dellFlexGatewayIP":"16.20.24.28", "credentialId":[{"fieldName":"gatewayCredentials", "value":"
FUZjmyuTgUrPVFYNR7bcheEF"}]}, "nativeTypes": ("Dell PowerFlex SDC": {"resourceType":"STORAGE_ARRAY_VSERVER"}, "Dell PowerFlex VTree": {"resourceType":"Storage"}, "Dell
PowerFlex Device": {"resourceType":"Storage"}, "Dell PowerFlex System": {"resourceType":"Storage"}, "Dell PowerFlex Storage Pool": {"resourceType":"STORAGE_ARRAY_POOL"}, "Dell PowerFlex Protection Domain": {"resourceType":"
STORAGE_ARRAY_"}}}, "requireAck":false, "sha":"d05a077e45d252c810448a742a087a9ae5d23daadlc6f462dld4ec964ld19c28"}
```

Get Monitoring Jobs

```
gcli> sdkgetmonitoirngjobs <app name> <config id>
```

Example

```
gcli> sdkgetmonitoirngjobs dell-powerflex ADAPTER-MANIFEST-5a178c98-33c2-4e07-81f6-9f43306684f5

JOBNAME dell-powerflex@Monitoring@ADAPTER-MANIFEST-5a178c98-33c2-4e07-81f6-9f43306684f5@6115e432-2d53-4713-82d6-
f5a6d722d91c@7eb39056-56da-44aa-8632-a7b2d05bd667 , JOB DETAILS{"jobName": "dell-powerflex@Monitoring@ADAPTER-
MANIFEST-5a178c98-33c2-4e07-81f6-9f43306684f5@6115e432-2d53-4713-82d6-f5a6d722d91c@7eb39056-56da-44aa-8632-
a7b2d05bd667", "jobType": "Monitoring", "configId": "", "appId": "", "config": "{\"appName\": \"dell-powerflex\", \"
frequency\":2}", "recvDataTS":1656495211255, "scheduled": true}
```

Get Store Names

```
gcli> sdkgetallstorenames
```

Example

```
gcli> sdkgetallstorenames
StoreName: resource_configuration
StoreName: template_configuration_info
StoreName: SDKv2ScheduleConfDataPojo
StoreName: dell-powerflex_rootResourceMoIdStore
StoreName: discovery_configuration_info
StoreName: dell-powerflex_dell-powerflex_resource_sha_ADAPTER-MANIFEST-7dad7a0f-00c3-41cd-9431-b9a0259a6877
StoreName: MonitoringConfiguration
StoreName: DiscoveryConfiguration
StoreName: dell-powerflex_MonitorComponentState
StoreName: credential_configuration
StoreName: dell-powerflex_dell-powerflex_realtionships_ADAPTER-MANIFEST-7dad7a0f-00c3-41cd-9431-b9a0259a6877
StoreName: credential_configuration_info
StoreName: resource_configuration_info
StoreName: dell-powerflex_dell-powerflex_resource_ADAPTER-MANIFEST-7dad7a0f-00c3-41cd-9431-b9a0259a6877
StoreName: dell-powerflex_RESOURCE_ACK_STORE_ADAPTER-MANIFEST-7dad7a0f-00c3-41cd-9431-b9a0259a6877
StoreName: gateway_info
StoreName: dell-powerflex_FORCEDISCOVERY_STORE
```

Get Keys from the Store

```
gcli> sdkgetkeysbystore <store name>
```

Example

```
gcli>sdkgetKeysbystore template_configuration_info
Key: f3255e76-58c7-4c4d-89de-c9c0f8c3f437
Key: 5a8da8la-0a90-48e6-alla-53768caeb0la
Key: 23cab019-cd22-4b04-b7c2-7825a0760c4e
Key: 7e60518d-94b6-4052-a64e-11e99d10b7c6
Key: d1fda83e-735b-4797-8171-806b49ea197f
Key: 8ab35f56-5891-4f9a-9c70-6ac4edf622d0
Key: 6115e432-2d53-4713-82d6-f5a6d722d91c
Key: 597b8cb4-0294-4e1d-99fa-feaed13fc465
Key: 958f0dc2-6995-433c-9673-22f7202226c4
```

Get Keys and Values from the Store

```
gcli> sdkgetkeyvaluebystore <store name>
```

```
gcli>sdkgetkeyvaluebystore template_configuration_info
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Get Value using Key from the Store

gcli> sdkgetvalbystoreandkey <store name> <key name>

Example

```
gcli>sdkgetvalbystoreandkey template_configuration_info f3255e76-58c7-4c4d-89de-c9c0f8c3f437
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```

```
gcli> sdkrmstoreandkey <store name> <key name>
```

Example

gcli>sdkrmstoreandkey template_configuration_info f3255e76-58c7-4c4d-89de-c9c0f8c3f437 Data deleted successfully against the key f3255e76-58c7-4c4d-89de-c9c0f8c3f437

Flush data from the Store

```
gcli> sdkflushstorename <store name>
```

Example

```
gcli>sdkflushstorename template_configuration_info
Data flushed successfully against the store template_configuration_info
```

Debug NATS Messages

1. Expose NATS POD 8222 port

```
kubectl port-forward stan-0 8222
```

2. Hit GET Rest Endpoint to check the messages by replacing queue names

```
ashok@hydlpt340:~$ curl http://localhost:8222/streaming/channelsz?channel=dell-sdk-app
{
   "name": "dell-sdk-app",
   "msgs": 8,
   "bytes": 6710,
   "first_seq": 1,
   "last_seq": 8
}

ashok@hydlpt340:~$ curl http://localhost:8222/streaming/channelsz?channel=outbound_channel
{
   "name": "outbound_channel",
   "msgs": 3,
   "bytes": 2310,
   "first_seq": 1,
   "last_seq": 3
}
```

Content Dependencies

```
kubectl exec -it nextgen-gw-0 -c vprobe -- /bin/bash
gateway@nextgen-gw-0:/opt/gateway/vprobe$ ls /opt/gateway/content/repo
```

This will list you the installed apps in vprobe

Update latest vprobe image in existing Gateway

Step 1: Remove the existing image from k3s

ubuntu@nextgen-gw:~\$ sudo k3s ctr i rm us-docker.pkg.dev/gateway-images/gateway-cluster-images/vprobe:13.0.0-dev

Step 2: Restart/Delete nextgen-gw POD in the host machine

kubectl delete pod nextgen-gw-0

Once you deleted POD, it will automatically pull latest image from the GCP repo.

Replace vprobe image locally

Step 1: Build a docker image using the Dockerfile located in vprobe project

 $ashok@hydlpt340: $$\sim/work/opsramp/workspace/vprobe$ docker build -t us-docker.pkg.dev/gateway-images/gateway-cluster-images/vprobe: 13.0.0-dev .$

Step 2: Save docker image to tar file

 $ashok@hydlpt340: $$\sim/work/opsramp/workspace/vprobe$ docker save us-docker.pkg.dev/gateway-images/gateway-cluster-images/vprobe: 13.0.0-dev -o vprobe-image.tar$

Step 3: Copy vprobe image tar file to vm host mount path

 $ashok@hydlpt340: \verb|-/work/opsramp/workspace/vprobe| sudo cp vprobe-image.tar \verb|-/multipass_nextgen_gateway_data/| sudo cp vprobe-image.tar | sudo cp$

Once the tar file is copied to ~/multipass_nextgen_gateway_data/ then tar file is located in VM mount path i.e., /home/ubuntu/nextgen_gateway_data/

Step 4: Remove the existing image from k3s

 $\verb|ubuntu@nextgen-gw|:~$ sudo k3s ctr i rm us-docker.pkg.dev/gateway-images/gateway-cluster-images/vprobe:13.0.0-dev|| translation of the control of the co$

Step 5: Import docker image tar as Docker image in K3S

Step 6: Restart/Delete nextgen-gw POD in the host machine

kubectl delete pod nextgen-gw-0

Build docker images with multi-platform support

Refer here Multi Platform Docker Builds

Installing a third-party python app in Nextgen Gateway



Connect to VM shell reference: ConnectingtotheVMshell to install Nats message queue

Add registry details to k3s

sudo vi /etc/rancher/k3s/registries.yaml

```
mirrors:
    artifact.registry:
    endpoint:
    - "https://us-docker.pkg.dev"
```

Restart K3S

```
sudo service k3s restart
```

Install Nats

 $\verb|helm install stan oci://us-docker.pkg.dev/opsramp-registry/gateway-cluster-charts/stan --version 0.6.2| \\$

Restart vprobe

```
kubectl delete pod nextgen-gw-0
```

Install App

Add "deployment": "Image" property in manifest of your App and publish it

```
"metadata": {
    "description": "Sample app Integrates with sample vcenter APIs",
    "version": "1.0.0",
    "deployment": "Image"
}
```

```
kubectl get podsNAME READY STATUS RESTARTS AGE
dell-sdk-app-5566dcfbf5-kj5jk 2/2 Running 0 57s
nextgen-gw-0 3/3 Running 0 6m44s
stan-0 2/2 Running 0 18m
svclb-nextgen-gw-tcp-6rwwx 2/2 Running 0 53m
svclb-nextgen-gw-udp-q699t 2/2 Running 0 53m
```