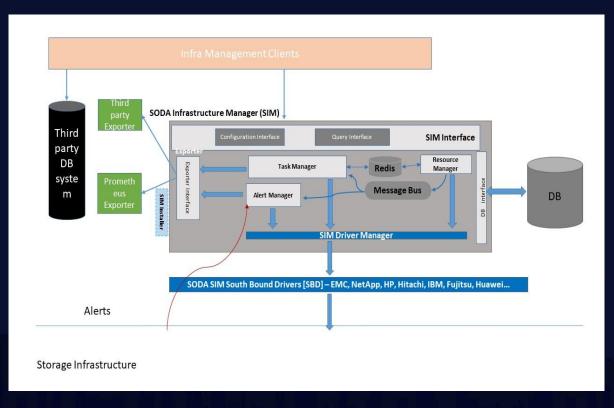
# SODA Greenland Demo....

Sushantha Kumar Mohammad Asif Siddiqui

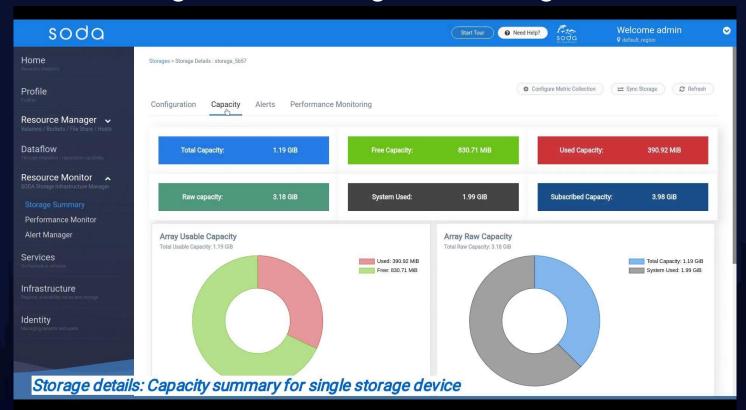
### Heterogeneous Storage Monitoring(Delfin)

- SODA foundation project for unified heterogeneous resource and performance monitoring and alerting
- Drivers to collect data
- Exporters to push data
- A scalable architecture to add drivers and exporters.





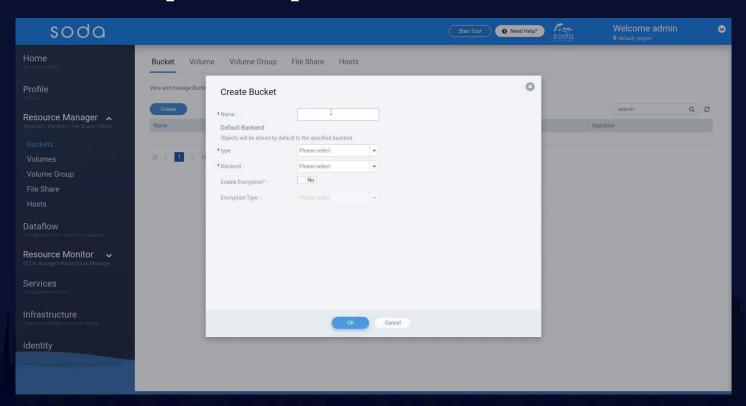
#### Heterogeneous Storage Monitoring



### SODA Multicloud: Use Cases

- Freedom to choose most efficient data location
- Enable Policy based Data mobility in-cloud or Cross cloud
- Hybrid Cloud Data Management
- Unified API for multi-cloud

## [DEMO] SODA Multicloud



#### SODA Plugin: Kubernetes CSI

```
(project_delfin) root@root123-Virtual@ox:/opt/opensds-sushi-linux-and64/csi/examples/kubernetes/block#
(project_delfin) root@root123-VirtualBox:/opt/opensds-sushi-linux-and64/csi/examples/kubernetes/block# kubectl get pods
                                           READY
                                                  STATUS
                                                           RESTARTS AGE
                                                                       85m
csi-attacher-opensdsplugin-block-0
                                                  Runnting
                                                                       85m
cst-attacher-opensdsplugin-file-0
                                                  Running
cst-nodeplugin-opensdsplugin-block-56621
                                                                       85h
                                          2/2
                                                  Running
csi-nodeplugin-opensdsplugin-file-29s2v
                                                  Running
                                                                       85m
csi-provisioner-opensdsplugin-block-0
                                                  Runnting
                                                                       85m
csi-provisioner-opensdsplugin-file-0
                                          2/2
                                                                       85n
csi-snapshotter-opensdsplugin-block-8
                                          2/2
                                                                       85n
csi-snapshotter-opensdsplugin-file-0
                                           2/2
                                                  Running
                                                                       BSH
(project_delfin) root@root123-Virtual@ox:/opt/opensds-sushi-linux-amd64/csi/examples/kubernetes/block# osdsctl profile list
| c6ba12d7-a487-4258-8d92-2555bd37fcde | default block | default policy | block
(project_delfin) root@root123-Virtual@ox:/opt/opensds-sushi-linux-and64/csl/examples/kubernetes/block# ls
CreateVolumefronSnapshot nginx.yanl pod-with-block-volume.yanl
(project delfin) root@root123-Virtual@ox:/opt/opensds-sushi-linux-and64/csi/examples/kubernetes/block# vi nginx.yaml
(project delfin) root@root123-Virtual@ox:/opt/opensds-sushi-linux-and64/csi/examples/kubernetes/block#
(project delfin) root@root123-VirtualBox:/opt/opensds-sushi-linux-and64/csi/examples/kubernetes/block# kubectl create -f nginx.yaml
storageclass.storage.k8s.lo/csl-sc-opensdsplugin-block created
persistentvolumeclaim/csi-pvc-opensdsplugin-block created
pod/nginx-block created
*(project_delfin) root@root123-VirtualBox:/opt/opensds-sushi-linux-and64/csi/examples/kubernetes/block# kubectl get pods
                                                  STATUS
                                                                      RESTARTS AGE
csi-attacher-opensdsplugin-block-8
                                                  Running
                                                                                 86m
csi-attacher-opensdsplugin-file-0
                                           3/3
                                                  Running
cst-nodeplugtn-opensdsplugtn-block-566zl
                                          2/2
                                                  Running
                                                                                 BGN
                                                  Running
csi-nodeplugin-opensdsplugin-file-29s2v
                                          2/2
                                                                                 86n
cst-provisioner-opensdsplugta-block-0
                                                  Running
                                          2/2
                                                                                 86n
csi-provisioner-opensdsplugin-file-0
                                          2/2
                                                  Runn(ng
csi-snapshotter-opensdsplugin-block-8
                                                  Running
                                                                                 86n
csi-snapshotter-opensdsplugin-file-0
                                                                                 86n
                                                  Runnting
nginx-block
                                           0/1
                                                  ContainerCreating 0
(project_delf(n) root@root123-VirtualBox:/opt/opensds-sushi-linux-and64/csi/examples/kubernetes/block#
```