

2021-05-27 DCAE OOM Meeting

- Bridge
 - [dcaegen2] Team ONAP11, Wed UTC 13:00 (9 AM EDT)
- Recording:
- Attendees:
- Discussion Topics:

Bridge

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ONAP Meeting 11 is inviting you to a scheduled Zoom meeting.

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ACTION REQUIRED BY ALL COMMUNITY MEMBERS

All attendees must set their Zoom name in **First-name FAMILY-NAME (company)** format

WAITING ROOM ENABLED by default; HOST/CO-HOST will allow attendees following naming convention.

Recording:

[DCAE_OOM_meeting_05272021.mp4](#)

Attendees:

[Vijay Venkatesh Kumar](#) [Krzysztof Kuzmicki](#) [Krzysztof Opasiak](#) [Sylvain Desbureaux](#) [Jack Lucas](#) [Ajay Deep Singh](#)

Discussion Topics:

One off meeting to discuss HELM registry design/solution within ONAP -

[OOM-2734 - Getting issue details...](#)

STATUS

[ONAP-HelmRegistrySupport_v1.0.pptx](#)

Open items:

- SECCOM: Authentication choice between [Basic Auth](#) [Bearer/Token Auth](#) [HTTPS\(with certificates\)](#)
 - Authentication - HTTPS.Basicauth for Istanbul; explore HTTPS/cert for future
 - Fine grained authorization for Helm registry API's??
- OOM: Placeholder repo under OOM([oom/kubernetes/common/chartMuseum](#))
 - Preference of using [charts](#) as-is or custom charts using docker container
- DCAE: Service Application helm charts should be independently installed using "helm install" command

- How Service Applications helm charts will be loaded to chartMuseum:
 - Chart museum will connect to helm repo on RKE/Nexus (depending on installation) and download list of required charts.
 - Extending access outside cluster via Nodeport temporarily(for initial load)
 - Any other proposal ?

OOM team comments from 05/26 meeting:

- Remove RKE references from presentation
- Consider using PUSH based approach from external/helm registry to avoid FW/security constraint and keeping all flows unidirectional

Comments/discussion 05/27/2021

Determine need for registry

- Usecase 1 - MS provided by ONAP (static)
 - Charts packages are released/available and must be preloaded into registry part of Day0
 - Integration/CLAMP will require static charts access to deploy on-demand/test flows
- Usecase 2 - Support dynamic MS onboarding/upload of helm charts (e.g Acumos flow)
 - Ms are not part of ONAP (private components onboarded per ONAP operator)

Usecase2 requires registry support within ONAP (same or different namespace TBD)

Determine how registry should be initialized

- How Service Applications helm charts will be loaded to chartMuseum:
 - Chart museum will connect to helm repo on RKE/Nexus (depending on installation) and download list of required charts.
 - Extending access outside cluster via Nodeport temporarily(for initial load)
 - Any other proposal ?
 - Option 1 (PULL)- ChartMuseum (within cluster) will pull required charts part of install based on repo/config list provided; has dependency on nexus3 chart/release build out. Repo list can be nexus3 or repo cloned from ONAP/nexus3 part of offline support.
 - Security risk, certificate management etc to be considered
 - Option 2 (PUSH) - Use k8s api to provide required artifact within cluster (binding to push mechanism); all artifacts are made available upfront.
 - Reproducible

Consensus on option#2

Explore options#2 solutions

1. Preload via configMap
 - size constraint
2. Using script to preload charts
3. Handle via job (calls script or kubectl cp)
 - a. chart 1- chartmuseum
 - b. chartmuseum-init will include script (machine having access to cluster/chartmuseum registry)
 - i. use kubectl proxy
 - c. Cons: Not completely cloudnative
 - d. Cons: need to be included part of gating/day0 OOM setup prior to Integration/gating executions
4. Docker container
 - a. include all charts required part of initial load
 - b. Automate docker creation/release and oom update can also be automated; need LF support
 - i. Automate release
 - ii. Automate OOM updates
 - c. ~~Cons: Solution not work if component charts are separated to individual repo~~
 - d. Similar to oom/readiness (<https://gerrit.onap.org/r/gitweb?p=oom/readiness.git;a=tree;h=refs/heads/master;hb=refs/heads/master>)
5. K8s Operator with chartmuseum
 - a. <https://github.com/vtuson/chartmuseum-chart/tree/master/templates>

Consensus on #3 or #4; finalize target for Istanbul in 1-2 weeks.

Target Repository/placeholder

Charts for ChartMuseum - **oom/kubernetes/platform** - Components should be able to use onap/chartmuseum or external instance based on configuration in values.yaml

Option#3 scripts oom/kubernetes/contrib/tools