OOM Beijing - M1 Release Planning Template

DRAFT PROPOSAL FOR COMMENTS

The content of this template is expected to be fill out for M1 Release Planning Milestone.

Overview

Project Name	Enter the name of the project
Target Release Name	Beijing
Project Lifecycle State	Incubation
Participating Company	Bell, Amdocs, AT&T, ZTE, Huawei

Scope

What is this release trying to address?

Goal: OOM for Carrier-Grade deployments

The ONAP Operations Manager provides a set of capabilities that facilitate Carrier Grade deployments of ONAP. ONAP deployments need to be capable of offering service while under adverse conditions typically with overall availability measured at five-nines or 99.999% uptime or about 5 minutes of downtime per year. This requirement might be strict for an orchestration system, but keep in mind that ONAP's closed loop control system could be providing monitoring a control for one or more critical VNFs that need to meet stringent up-time requirements as found in the TL 9000 Quality Management System Measurements Handbook.

Details available at: OOM for Production-Grade Deployments

Use Cases

...

Minimum Viable Product

Out of scope

- ..

Functionalities

Epics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
OOM-109	Platform Centralized Logging		Aug 06, 2017	Aug 12, 2023		Borislav Glozman	Borislav Glozman		CLOSED	Done
OOM-6	Automated platform deployment on Docker /Kubernetes		Jul 05, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
OOM-10	Platform configuration management		Jul 05, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
OOM-412	Handle branching in OOM configuration - 16 Nov		Nov 09, 2017	Jul 23, 2018		Unassigned	None		CLOSED	Done
OOM-486	HELM upgrade from 2.3 to 2.8.0		Dec 03, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
OOM-590	OOM Wiki documentation of deployment options		Jan 17, 2018	Nov 01, 2018		Unassigned	None		CLOSED	Done

6 issues

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
OOM-209	CLI Version 1.1 Deployed in Kubernetes		Aug 24, 2017	Jun 26, 2018		Unassigned	None		CLOSED	Done
OOM-914	Add LOG component robot healthcheck		Apr 12, 2018	Aug 12, 2023		Unassigned	None		CLOSED	Done
OOM-777	Add Standardized Configuration Helm Starter Chart		Feb 28, 2018	Mar 20, 2018		Unassigned	None		CLOSED	Done
OOM-460	Segregating configuration of ONAP components		Nov 24, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
OOM-344	Break the configuration tarball per appplication		Oct 04, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
OOM-722	OOM - Run all ONAP components in one namespace		Feb 19, 2018	Mar 06, 2019		Borislav Glozman	Borislav Glozman		CLOSED	Done
OOM-265	Top level helm chart for ONAP		Sep 05, 2017	Feb 28, 2018		Unassigned	None		CLOSED	Done
OOM-758	Common Mariadb Galera Helm Chart to be reused by many applications		Feb 22, 2018	May 30, 2018		Unassigned	None		CLOSED	Done
OOM-751	Add Standardized Configuration to VNFSDK		Feb 22, 2018	Jul 04, 2018		Unassigned	None		CLOSED	Done
OOM-734	Add Standardized Configuration to AAI		Feb 22, 2018	Mar 28, 2018		Unassigned	None		CLOSED	Done

OOM-406	In Kubernetes 1.8, the annotations are no longer supported and must be converted to the PodSpec field.		Nov 08, 2017	Aug 12, 2023	Unassigned	None		CLOSED	Done
OOM-457	In Kubernetes 1.8, init-container annotations to be converted to PodSpec field for aaf, clamp and vfc		Nov 22, 2017	Feb 28, 2018	Unassigned	None		CLOSED	Done
OOM-728	Add Standardized Configuration to ROBOT		Feb 22, 2018	Mar 26, 2018	Unassigned	None		CLOSED	Done
OOM-729	Add Standardized Configuration to VID		Feb 22, 2018	Mar 28, 2018	Unassigned	None		CLOSED	Done
OOM-730	Add Standardized Configuration to Consul		Feb 22, 2018	Apr 04, 2018	Unassigned	None		CLOSED	Done
OOM-743	Replace deprecated MSO Helm Chart with Standardized SO Helm Chart		Feb 22, 2018	Apr 11, 2018	Unassigned	None		CLOSED	Done
OOM-731	Add Standardized Configuration to DMaaP Message Router		Feb 22, 2018	Apr 05, 2018	Unassigned	None		CLOSED	Done
OOM-742	Add Standardized Configuration to MSB		Feb 22, 2018	Apr 06, 2018	Borislav Glozman	None		CLOSED	Done
OOM-748	Add Standardized Configuration to SDNC		Feb 22, 2018	Apr 04, 2018	Unassigned	None		CLOSED	Done
OOM-733	Add Standardized Configuration to APPC		Feb 22, 2018	Apr 11, 2018	Borislav Glozman	None		CLOSED	Done

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Longer term roadmap

ONAP Platform OOM (ONAP Operations Manager)will be used to efficiently Deploy, Manage, Operate the ONAP platform and its components (e.g. MSO, DCAE, SDC, etc.) and infrastructure (VMs, Containers). The OOM addresses the current lack of consistent platform-wide method in managing software components, their health, resiliency and other lifecycle management functions. With OOM, service providers will have a single dashboard/UI to deploy & un-deploy the entire (or partial) ONAP platform, view the different instances being managed and the state of each component, monitor actions that have been taken as part of a control loop (e.g., scale in-out, self-heal), and trigger other control actions like capacity augments across data centers.

The primary benefits of this approach are as follows:

- **Flexible Platform Deployment** - While current ONAP deployment automation enables the entire ONAP to be created, more flexibility is needed to support the dynamic nature of getting ONAP instantiated, tested and operational. Specifically, we need the capability to repeatedly deploy, un-deploy, and make changes onto different environments (dev, system test, DevOps, production), for both platform as a whole or on an individual component basis. To this end, we are introducing the ONAP Operations Manager with orchestration capabilities into the deployment, un-deployment and change management process associated with the platform.
- **State Management of ONAP platform components** – Our initial health checking of Components and software modules are done manually and lack consistency. We are proposing key modules/services in each ONAP Component to be able to self-register/discovered into the ONAP Operations Manager, which in turn performs regular health checks and determines the state of the Components/software.
- **Platform Operations Orchestration / Control Loop Actions** – Currently there is a lack of event-triggered corrective actions defined for platform components. The ONAP Operations Manager will enable DevOps to view events and to manually trigger corrective actions. The actions might be simple initially – stop, start or restart the platform component. Over time, more advanced control loop automation, triggered by policy, will be built into the ONAP Operations Manager.

Release Deliverables

Indicate the outcome (Executable, Source Code, Library, API description, Tool, Documentation, Release Note...) of this release.

Deliverable Name	Deliverable Description

Sub-Components

List all sub-components part of this release.
Activities related to sub-component must be in sync with the overall release.

Sub-components are repositories are consolidate in a single centralized place. Edit the Release Components name for your project in the centralized page.

ONAP Dependencies

As OOM manages all of the ONAP components it has dependencies on all other projects. OOM's first goal is to manage all of the components from the 1.0 release and will incorporate newer components as they mature. In order for a project to be managed by OOM deployment artifacts that must be created - specifically a kubernetes deployment specification(s) and project configuration/environment data - in formats provided by this project.

Architecture

High level architecture diagram

OOM User Guide

OOM for Production-Grade Deployments

API Incoming Dependencies

List the API this release is expecting from other releases.
Prior to Release Planning review, Team Leads must agreed on the date by which the API will be fully defined. The API Delivery date must not be later than the release API Freeze date.

Prior to the delivery date, it is a good practice to organize an API review with the API consumers.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)

API Outgoing Dependencies

API this release is delivering to other releases.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
KubeCTL	Kubernetes control			

Third Party Products Dependencies

Third Party Products mean products that are mandatory to provide services for your components. Development of new functionality in third party product may or not be expected.
List the Third Party Products (OpenStack, ODL, RabbitMQ, ElasticSearch,Crystal Reports, ...).

Name	Description	Version
Kubernetes		
Rancher		
Cloudify (Potential)		

Consul		
Postgres		

In case there are specific dependencies (Centos 7 vs Ubuntu 16. Etc.) list them as well.

Testing and Integration Plans

Provide a description of the testing activities (unit test, functional test, automation,...) that will be performed by the team within the scope of this release.

Describe the plan to integrate and test the release deliverables within the overall ONAP system.
Confirm that resources have been allocated to perform such activities.

Gaps

This section is used to document a limitation on a functionality or platform support. We are currently aware of this limitation and it will be delivered in a future Release.
List identified release gaps (if any), and its impact.

Gaps identified	Impact
To fill out	To fill out

Known Defects and Issues

Provide a link toward the list of all known project bugs.

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
OOM-761	Move oomk8s artifacts to nexus3		Feb 22, 2018	Nov 21, 2022		Unassigned	None	=	CLOSED	Done
OOM-1480	postgres chart does not set root password when installing on an existing database instance		Oct 22, 2018	Nov 21, 2022		Unassigned	None	^	CLOSED	Won't Do
OOM-1484	Remove the reference to "mariadb-client-init" docker image		Oct 25, 2018	Nov 21, 2022		Unassigned	None	=	CLOSED	Won't Do
OOM-1711	Incorrect extraction of GLOBAL_OVERRIDES		Mar 12, 2019	Nov 21, 2022		Unassigned	Andrew Fenner	=	CLOSED	Won't Do
OOM-1793	High CPU observed by Cassandra liveness /readiness probe		Apr 09, 2019	Nov 21, 2022		Unassigned	None	=	CLOSED	Won't Do
OOM-1966	ONAP on HA Kubernetes Cluster - Documentation update		Jul 06, 2019	Nov 21, 2022		Unassigned	None	^	CLOSED	Done
OOM-1995	Mariadb Galera cluster pods keep failing		Jul 17, 2019	Nov 21, 2022		Unassigned	None	^	CLOSED	Cannot Reproduce
OOM-1999	OOM Min recommended disk size too small		Jul 17, 2019	Nov 21, 2022		Unassigned	None	=	CLOSED	Won't Do
OOM-2003	portal-app loadbalancer does not work in RKE deployment		Jul 18, 2019	Nov 21, 2022		Unassigned	Andreas Geissler	=	CLOSED	Won't Do
OOM-2061	Details Missing for installing the kubectl section		Aug 01, 2019	Nov 21, 2022		Unassigned	None	^	CLOSED	Done
OOM-2075	Invalid MTU for Canal CNI interfaces		Aug 23, 2019	Nov 21, 2022		Unassigned	Lukasz Rajewski	^	CLOSED	Done

OOM-2132	Common Galera server.cnf does not contain Camunda required settings		Oct 14, 2019	Nov 21, 2022	Unassigned	None		CLOSED	Done
OOM-2155	Mariadb galera creates an unused PVC		Oct 28, 2019	Nov 21, 2022	Unassigned	None		CLOSED	Done
OOM-2195	Unable to configure cloud_provider in the offline installer		Nov 07, 2019	Nov 21, 2022	Unassigned	None		CLOSED	Won't Do
OOM-3032	OOM blank installation of ONAP - many pods fail to start - including Portal		Sep 04, 2022	Nov 21, 2022	Sheshalevich Vladislav	Sheshalevich Vladislav		CLOSED	Done
OOM-1577	Non-breaking UTF-8 space in K8 slave NFS script breaks NFS fstab mounting		Jan 02, 2019	Dec 09, 2020	Unassigned	None		CLOSED	Done
OOM-1817	Use of global.repository inconsistent across Helm Charts		Apr 18, 2019	Apr 28, 2021	Unassigned	None		CLOSED	Done
OOM-1978	Misrendered enumerated lists		Jul 10, 2019	Dec 09, 2020	Unassigned	None		CLOSED	Done
OOM-2057	race condition: readiness-check pod ready.py script fails to detect shared Cassandra is ready		Aug 14, 2019	Dec 09, 2020	Unassigned	None		CLOSED	Done
OOM-2114	helm deploy of sub-project fails and re-installs onap on new release name		Sep 18, 2019	Dec 09, 2020	Unassigned	None		CLOSED	Done

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Risks

List the risks identified for this release along with the plan to prevent the risk to occur (mitigation) and the plan of action in the case the risk would materialized (contingency).

Risk identified	Mitigation Plan	Contingency Plan
To fill out	To fill out	To fill out

Resources

Fill out the Resources Committed to the Release centralized page.

Release Milestone

The milestones are defined at the Release Level and all the supporting project agreed to comply with these dates.

Team Internal Milestone

This section is optional and may be used to document internal milestones within a project team or multiple project teams. For instance, in the case the team has made agreement with other team to deliver some artifacts on a certain date that are not in the release milestone, it is erecommended to provide these agreements and dates in this section.

It is not expected to have a detailed project plan.

Date	Project	Deliverable
To fill out	To fill out	To fill out

Documentation, Training

- ...

Other Information

Vendor Neutral

If this project is coming from an existing proprietary codebase, ensure that all proprietary trademarks, logos, product names, etc. have been removed. All ONAP deliverables must comply with this rule and be agnostic of any proprietary symbols.

Free and Open Source Software

FOSS activities are critical to the delivery of the whole ONAP initiative. The information may not be fully available at Release Planning, however to avoid late refactoring, it is critical to accomplish this task as early as possible.
List all third party Free and Open Source Software used within the release and provide License type (BSD, MIT, Apache, GNU GPL,...).
In the case non Apache License are found inform immediately the TSC and the Release Manager and document your reasoning on why you believe we can use a non Apache version 2 license.

Each project must edit its project table available at Project FOSS.

Charter Compliance

The project team comply with the ONAP Charter.