LOG M1 Beijing Release Planning

WIP: DRAFT PROPOSAL FOR COMMENTS

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

follow

Platform Maturity Requirements (aka Carrier Grade)

fill Beijing Release Platform Maturity

> ⓘ **Info**
>
> Use the "Copy" and "Move" options (available under the ..., top right of this page) to duplicate this template into your project wiki.
> Use the Wiki to document the release plan. Don't provide PowerPoint.
> Use as much diagrams and flow charts as you need, directly in the wiki, to convey your message.

Overview

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

Scope

What is this release trying to address?

Provide an ELK implementation for ONAP as described on https://kubernetes.io/docs/tasks/debug-application-cluster/logging-elasticsearch-kibana/

LOG-89 - Getting issue details...   STATUS

Use Cases

Use Case: Residential Broadband vCPE (Approved)

Use Case: vFW/vDNS (Approved)

Use Case: VoLTE(approved)

Minimum Viable Product

The MVP for Amsterdam will:

- Logging RI as a demo/reference for teams not currently running filebeat containers in their pods
  Currently the following are using filebeat already (aai, appc, so, policy, portal, sdc, sdnc, vid)
- Logging AOP based library for use by all component teams as a spring shared jar.
- Emit standardized, machine-readable logging output, correlated by transaction ID.
- Allow dynamic reconfiguration of logging providers.
- Provide a reference configuration for Elastic Stack, automatically deployed by Kubernetes and the ONAP Operations Manager.
- Provide reference configurations for shipping and indexing of ONAP logs to the ELK stack via filebeat.
- Provide standard Kibana dashboards for transaction traceability and general lucene spec log searches

Functionalities

Epics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
LOG-228	Logging prep for Beijing RC0	⚡	Apr 17, 2018	Aug 08, 2018		Unassigned	None	=	CLOSED	Done
LOG-172	Beijing M2 Deliverables tasks	⚡	Feb 10, 2018	Aug 12, 2023		Unassigned	None	≫	CLOSED	Done
LOG-167	get DCAEGEN2/designate running on OOM-HEAT bridge - for closed-loop logging	⚡	Feb 01, 2018	Aug 12, 2023		Unassigned	None	∧	CLOSED	Done
LOG-156	Support R2 Beijing Logging initiatives in ONAP projects not currently on the ELK system (Multicloud,..)	⚡	Jan 23, 2018	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
LOG-154	Platform Maturity: Beijing required security badging procedure	⚡	Jan 22, 2018	Aug 12, 2023		Unassigned	None	≫	CLOSED	Done
LOG-101	OOM Logging fixes tracking Epic	⚡	Nov 14, 2017	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
LOG-91	Logging Documentation for R2 - readthedocs.io	⚡	Oct 31, 2017	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
LOG-69	Logging Code Refactoring	⚡	Oct 04, 2017	Aug 08, 2018		Unassigned	None	∧	CLOSED	Done
LOG-45	Openstack Heat template additions for Logging ELK (Filebeat, Logstash, Elasticsearch, Kibana)	⚡	Aug 09, 2017	Aug 12, 2023		Unassigned	None	∧	CLOSED	Won't Do
LOG-3	Elastic Stack reference analytics pipeline	⚡	Jul 07, 2017	Aug 08, 2018		Unassigned	None	=	CLOSED	Done
LOG-2	Standardized logging provider configuration	⚡	Jul 07, 2017	Aug 08, 2018		Unassigned	None	=	CLOSED	Done
LOG-1	Transaction ID propagation	⚡	Jul 07, 2017	Aug 08, 2018		Unassigned	None	=	CLOSED	Done

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
LOG-350	ONS conference prep - ONAP OOM CD on Amazon /Azure		Feb 08, 2018	Aug 08, 2018		Unassigned	None		CLOSED	Done
LOG-346	ONS OOM presentation proposal for 20180114		Jan 14, 2018	Aug 08, 2018		Unassigned	None		CLOSED	Unresolved
LOG-332	Deployment CI/CD Integration Jenkins job using OOM-K8S - to validate branch		Aug 18, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-301	Azure Resource Manager template for ONAP Kubernetes CD Automation		Jan 30, 2018	Aug 08, 2018		Unassigned	None		CLOSED	Done
LOG-276	F2F: Deploy ONAP/OOM on any Environment		Nov 04, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-266	F2F: ONAP CI/CD using OOM Kubernetes		Nov 03, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-181	Use DaemonSets for logging - Logstash		Mar 19, 2018	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-147	R2 M1 release notes preparation		Jan 15, 2018	Aug 08, 2018		Unassigned	None		CLOSED	Done
LOG-134	Upload and document ELK templates for kibana tracing dashboards		Jan 11, 2018	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-129	Remove reference logging config in logging-analytics repo - use OOM config implementation only		Jan 10, 2018	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-127	R1-M1 Logging PTL Administration		Jan 05, 2018	Aug 08, 2018		Unassigned	None		CLOSED	Done
LOG-122	LF: Add jenkins ONAP JobBuilder infrastructure for logging-analytics repo		Jan 02, 2018	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-110	Logging API Audit - existing code		Dec 19, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-107	Add wiki detailing diff between original PDF logging guidelines and current R2 wiki page		Nov 22, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done
LOG-82	Publish logging guidelines V1 for Amsterdam onap-discuss, V2 later		Oct 20, 2017	Aug 08, 2018		Unassigned	None		CLOSED	Done
LOG-55	Transaction ID propagation - CLI		Sep 09, 2017	Aug 08, 2018		Unassigned	None		CLOSED	Won't Do
LOG-54	Transaction ID propagation - MSB		Sep 09, 2017	Aug 08, 2018		Unassigned	None		CLOSED	Won't Do
LOG-53	Transaction ID propagation - CLAMP		Sep 09, 2017	Aug 08, 2018		Unassigned	None		CLOSED	Won't Do
LOG-50	Reference ELK stack for testing		Sep 06, 2017	Aug 12, 2023		Unassigned	None		CLOSED	Done

| LOG-46 | Get minimal E2E Logging Demo working on Kubernetes | 🔖 | Aug 15, 2017 | Aug 08, 2018 | | Unassigned | None | ⌃ | CLOSED | Duplicate |

Showing 20 out of 24 issues

Longer term roadmap

Release Deliverables

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

| Deliverable Name	Deliverable Description
Revised logging guidelines	Updates to What's New - ONAP Application Logging Guidelines reflecting new conventions and requirements.
Logging provider configuration defaults	Regularized configuration locations, simplifying deployment and customization.
Logging provider output defaults	Regularized output locations, simplifying deployment and customization, and the shipping and indexing of logs.
Logging provider migration	Optional standardization of logger providers, including upgrading from EOL Log4j 1.X.
Updated logging provider configuration(s)	Updated, standardized configurations for all logging providers and ONAP components - specific to OOM in the OOM repo.
Filebeat configuration	Reference configuration for Elastic Stack Filebeat shipping.
Logstash configuration	Reference configuration for Elastic Stack Logstash indexing.
Elasticsearch configuration	Reference configuration for Elastic Stack Elasticsearch.
Kibana configuration	Reference configuration for Elastic Stack's Kibana Discover UI.
Elastic Stack deployment	Automated OOM deployment of an Elastic Stack reference configuration, providing ONAP with an OOTB analytics platform.
Documentation	Other documentation supporting analytics configuration.

Sub-Components

Architecture

High level architecture diagram

Filebeat agent microservice per component feeds logs via emptyDir persistent volumes from each component docker container to the ELK stack pod via the logstash container. These high level ELK paths are overlayed on a the reference vFirewall L4 use case of ONAP.
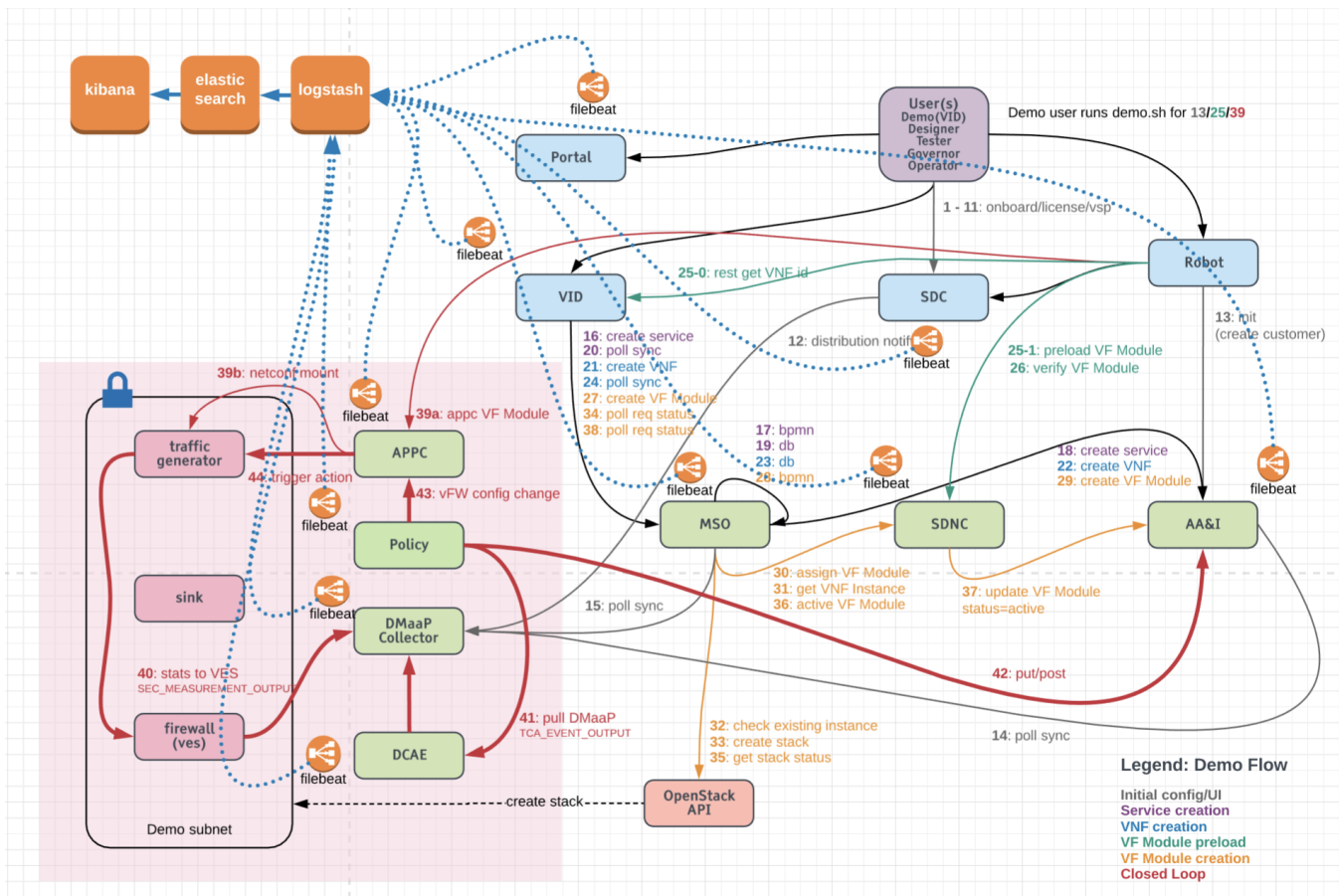
We fit in the overall architecture of ONAP as an OOM Kubernetes pod of 3 containers (ELK) and a per/microservice logstash container above - and below

Logging Architecture#OOMDeployment

Platform Maturity

Refering to CII Badging Security Program and Platform Maturity Requirements, fill out the table below by indicating the actual level , the targeted level for the current release and the evidences on how you plan to achieve the targeted level.

Area	Actual Level	Targeted Level for current Release	How, Evidences	Comments
Performance	0	0		0 -- none 1 – baseline performance criteria identified and measured 2 & 3 – performance improvement plans created & implemented
Stability	1	1	OOM system up on cd.onap.info for > 72 hours at ~10 tx/sec LOG-144 - Getting issue details... STATUS	0 – none 1 – 72 hours component level soak w/random transactions 2 – 72 hours platform level soak w/random transactions 3 – 6 months track record of reduced defect rate
Resiliency	2 (**)	2 (**)		0 – none 1 – manual failure and recovery (< 30 minutes) 2 – automated detection and recovery (single site) 3 – automated detection and recovery (geo redundancy)

Security	0	0		0 – none 1 – CII Passing badge + 50% Test Coverage 2 – CII Silver badge; internal communication encrypted; role-based access control and authorization for all calls 3 – CII Gold
Scalability	1	1		0 – no ability to scale 1 – single site horizontal scaling 2 – geographic scaling 3 – scaling across multiple ONAP instances
Manageability	1	1		1 – single logging system across components; instantiation in < 1 hour 2 – ability to upgrade a single component; tracing across components; externalized configuration management
Usability	0	1		1 – user guide; deployment documentation; API documentation 2 – UI consistency; usability testing; tutorial documentation

** Standard OOB OOM Kubernetes resilience/stability

- ## API Incoming Dependencies

List the API this project is expecting from other projects.
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)
To fill out	High level description of the API	Date for which the API is reviewed and agreed	To fill out	Link toward the detailed API description

- ## API Outgoing Dependencies

API this project is delivering to other projects.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
EELF	AT&T EELF	20170201	Beijing Relase	

- ## 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
JAX-RS	Java API for Restfull Service	2.0

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

- # Testing and Integration Plans

Unit testing is via each developer deploying their change locally on their OOM deployment

Integration CD testing hourly via the following framework exercises the ELK stack pods in OOM

http://jenkins.onap.info/job/oom-cd/

reported on http://kibana.onap.info:5601/app/kibana

Work to formalize the CI/CD framework is being done via **OOM-500** - Getting issue details... **STATUS**

- # 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
LOG-1244	Remove Class A IP address from logging-analytics onap-pipeline.properties	🔴	Sep 16, 2022	Sep 16, 2022		Unassigned	None	=	OPEN	Unresolved
LOG-1240	Container Filter always logs even on 404	🔴	Feb 05, 2021	Apr 06, 2021		Unassigned	None	=	CLOSED	Not a Bug
LOG-1207	HTTP port open	🔴	Mar 02, 2020	Dec 09, 2021		Unassigned	None	^	CLOSED	Won't Do
LOG-1190	PayloadLoggingServletFilter fix security flaws.	🔴	Dec 09, 2019	Dec 09, 2021		Unassigned	None	^	CLOSED	Won't Do
LOG-1178	Logging broken with python 3.8	🔴	Oct 24, 2019	Dec 09, 2021		Unassigned	Andrew Fenner	=	CLOSED	Won't Do
LOG-1170	InvocationId should be a new generated uuid on each outgoing call	🔴	Oct 16, 2019	Nov 26, 2019		Unassigned	None	=	CLOSED	Done
LOG-1166	Update the code to refer "InstanceID" not "InstanceUUID"	🔴	Oct 15, 2019	Oct 21, 2019		Unassigned	None	^	CLOSED	Done
LOG-1165	Update the code to refer "ResponseDesc" not "ResponseDescription"	🔴	Oct 14, 2019	Oct 21, 2019		Unassigned	None	^	CLOSED	Done
LOG-1164	StatusCode should be "COMPLETE" not "COMPLETED", update the code	🔴	Oct 14, 2019	Oct 21, 2019		Unassigned	None	^	CLOSED	Done
LOG-1148	Set elapsedTime to default value in MDCSetup	🔴	Oct 02, 2019	Nov 26, 2019		Unassigned	None	=	CLOSED	Done
LOG-1131	fix tox error due to Python update by LF	🔴	Sep 12, 2019	Oct 02, 2019		Unassigned	None	^	CLOSED	Done
LOG-1130	Update setTargetEntities to accept ONAPComponentsList interface	🔴	Sep 12, 2019	Oct 02, 2019		Unassigned	None	=	CLOSED	Done
LOG-1124	Logging CLM: fix/address/red-flag License camel-core SEC	🔴	Sep 05, 2019	Oct 05, 2019		Unassigned	None	=	CLOSED	Done
LOG-1123	Logging CLM: fix/address/red-flag License dom4j SEC	🔴	Sep 05, 2019	Sep 09, 2019		Unassigned	None	=	CLOSED	Done
LOG-1122	Logging CLM: fix/address/red-flag License xstream SEC	🔴	Sep 05, 2019	Oct 05, 2019		Unassigned	None	=	CLOSED	Done
LOG-1121	Logging/POMBA CLM: fix/address/red-flag logback-classic 1.1.11	🔴	Sep 05, 2019	Oct 05, 2019		Unassigned	None	=	CLOSED	Done
LOG-1118	Logging/POMBA CLM: fix/address/red-flag js-yaml SEC	🔴	Sep 05, 2019	Dec 09, 2021		Unassigned	None	=	CLOSED	Won't Do

LOG-1117	Logging/POMBA CLM: fix /address/red-flag uikit SEC	🔴	Sep 05, 2019	Dec 09, 2021	Unassigned	None	=	CLOSED	Won't Do
LOG-1116	Logging/POMBA CLM: fix /address/red-flag commons-beanutils SEC	🔴	Sep 04, 2019	Sep 09, 2019	Unassigned	None	⌃	CLOSED	Done
LOG-1114	Need for "ReadWriteMany" access on storage when deploying on Kubernetes?	🔴	Aug 29, 2019	Nov 07, 2019	Unassigned	None	⌃	CLOSED	Done

Showing 20 out of 260 issues

- ## 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
  - Contributions: Logging Guidelines, the wiki and read-the-docs content.
  - Highlight the team contributions to the overall Release Documentation and training asset
  - High level list of documentation, training and tutorials necessary to understand the release capabilities, configuration and operation.
  - Documentation includes items such as:
    - Installation instructions
    - Configuration instructions
    - Developer guide
    - End User guide
    - Admin guide
    - ...

> ⚠️ **Note**
>
> The Documentation project will provide the Documentation Tool Chain to edit, configure, store and publish all Documentation asset.

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.

.