

DMaaP R6 - M1 Release Planning

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Overview

Project Name	Enter the name of the project
Target Release Name	Frankfurt R6
Project Lifecycle State	Incubation/Mature
Participating Company	AT&T

Scope

What is this release trying to address?

Enhance to protect all update operations in Kafka

Create Kafka image using Confluent 5.3.0

Replace SASL_PLAINTEXT listeners with SASL_SSL listeners in Kafka

Create custom Zookeeper image using confluent 5.3.0

Disable the AAF using a single flag

Securing the Kafka ZNodes using ACLs

Following TSC must-haves

1. Document current upgrade component strategy
2. SECCOM Perform Software Composition Analysis - Vulnerability tables
3. SECCOM Password removal from OOM HELM charts
4. SECCOM HTTPS communication vs. HTTP

Requirements

The existing Dublin use cases are still going to be supported. We will also support 5G use case requirements.




Minimum Viable Product

Upgrade MR components to newer Confluent Community 5.3.0 Kafka and Zookeeper. Replace Kafka SASL_PLAINTEXT listeners with SASL_SSL listeners while allowing to disable AAF using a flag. Secure Kafka ZNodes using ACLs.

Functionalities

List the functionalities that this release is committing to deliver by providing a link to JIRA Epics and Stories. In the JIRA Priority field, specify the priority (either High, Medium, Low). The priority will be used in case de-scoping is required. Don't assign High priority to all functionalities.

Epics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
DMAAP-1431	Release Candidate 2 Integration and Test		Apr 21, 2020	Feb 02, 2021	May 14, 2020	Unassigned	None	==	CLOSED	Done
DMAAP-1428	Release Candidate 1 Integration and Test		Apr 21, 2020	Feb 02, 2021	Apr 30, 2020	Unassigned	None	==	CLOSED	Done
DMAAP-1390	Release Candidate 0 Integration and Test		Mar 01, 2020	Feb 02, 2021	Mar 26, 2020	Unassigned	None	==	CLOSED	Done
DMAAP-1380	Containers configured per secure recommendation		Feb 03, 2020	Feb 02, 2021		Unassigned	None	==	CLOSED	Done
DMAAP-1368	Code Freeze		Jan 31, 2020	Feb 02, 2021	Mar 05, 2020	Unassigned	None	==	CLOSED	Done
DMAAP-1347	Functionality and API Freeze		Nov 22, 2019	Feb 02, 2021	Jan 21, 2020	Unassigned	None	==	CLOSED	Done
DMAAP-1335	[MR] Create custom Kafka image using confluent 5.3.0		Nov 06, 2019	Feb 02, 2021		Unassigned	None	==	CLOSED	Done
DMAAP-1309	Frankfurt release planning milestone		Oct 04, 2019	Feb 02, 2021	Oct 11, 2019	Unassigned	None	==	CLOSED	Done
DMAAP-912	[DR] Data Router updates to support Bulk PM use cases		Dec 14, 2018	Feb 02, 2021		Unassigned	None	==	CLOSED	Done

9 issues

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
DMAAP-1441	[MR] Update Frankfurt release notes		May 26, 2020	Jun 01, 2020		Unassigned	None	==	CLOSED	Done
DMAAP-1422	[MR] update expiring cert using secrets		Apr 02, 2020	Jul 20, 2020		Unassigned	None	==	CLOSED	Done
DMAAP-1419	[MR] Add frankfurt release notes		Apr 01, 2020	Apr 02, 2020		Unassigned	None	==	CLOSED	Done
DMAAP-1418	[MR] Fix security vulnerabilities identified in frankfurt release		Mar 31, 2020	Apr 01, 2020		Unassigned	None	==	CLOSED	Done
DMAAP-1417	[MR] Update docker-compose with the Frankfurt changes		Mar 31, 2020	Mar 31, 2020		Unassigned	None	==	CLOSED	Done
DMAAP-1414	[MR] update Jenkins Ubuntu build nodes to 18.04		Mar 27, 2020	Mar 31, 2020		Unassigned	None	==	CLOSED	Done

DMAAP-1413	[MR] Fix the known bug in Zookeeper image and Charts		Mar 26, 2020	Mar 27, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1411	[MR] updated the MR AAF certificates		Mar 25, 2020	Mar 26, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1407	[MR] Sonar Cloud migration		Mar 11, 2020	Mar 11, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1384	Code coverage - project defined improvements		Feb 04, 2020	Feb 04, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1383	Containers configured per secure recommendation - BC		Feb 03, 2020	Apr 28, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1382	Containers configured per secure recommendation - DR		Feb 03, 2020	Mar 06, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1381	Containers configured per secure recommendation - MR		Feb 03, 2020	Apr 28, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1346	[MR] Add authorization check for all possible Kafka operations		Nov 20, 2019	Mar 11, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1341	[MR] update oparent to 2.1.0		Nov 06, 2019	Mar 11, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1340	[MR] disable the AAF using a single flag		Nov 06, 2019	Mar 11, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1339	[MR] Create custom Zookeeper image using confluent 5.3.0		Nov 06, 2019	Mar 11, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1338	[MR] Replace SASL_PLAINTEXT listeners with SASL_SSL listeners in Kafka		Nov 06, 2019	Mar 11, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1337	[MR] Create Kafka image using 5.3.0		Nov 06, 2019	Mar 11, 2020	Unassigned	None	=	CLOSED	Done
DMAAP-1336	[MR] Enhance KafkaAAFAuthorizer to protect all update operations		Nov 06, 2019	Mar 11, 2020	Unassigned	None	=	CLOSED	Done

Showing 20 out of [25 issues](#)

Longer term roadmap

DMaaP is a premier platform for high performing and cost effective data movement services that transports and processes data from any source to any target with the format, quality, security, and concurrency required to serve the business and customer needs.

Release Deliverables

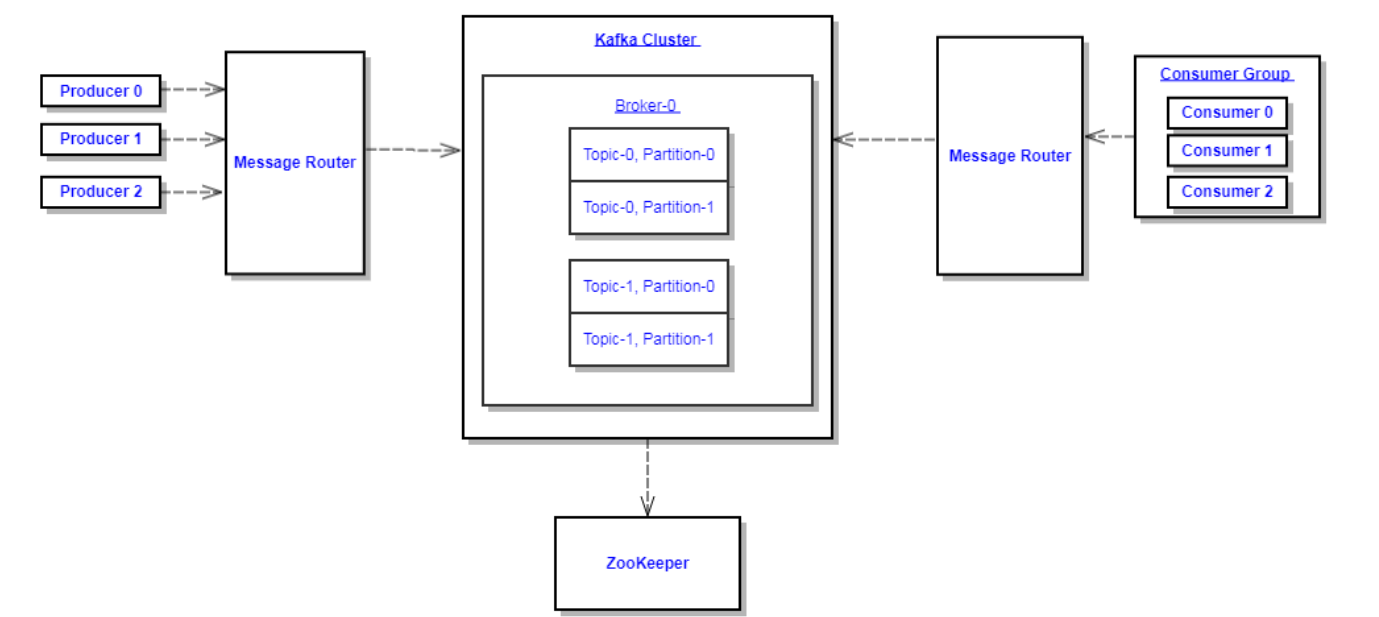
Deliverable Name	Deliverable Description
Docker image	Custom Kafka image and DMaaP images
Source Code	Source code of DMaaP
Release Note	Release note of the release

Sub-Components

[DMaaP sub-components](#)

Architecture

High level architecture diagram



DMaaP is a Kafka based platform that is used by various ONAP components to publish and subscribe messages with each other required for processing events.

Platform Maturity

Frankfurt Release Platform Maturity

• API Incoming Dependencies

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](#).

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
AAF	Authentication and Authorization Framework	already available	already available	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)
DMaaP MR API	API used to create Topics ,publish a message,subscribe to a Topic etc.	Date for which the API is reviewed and agreed	TBD	API documentation
DMaaP Buscontroller API	Provisioning API for management of Topics and Feeds	Date for which the API is reviewed and agreed	M2	API documentation (ReadTh eDocs)
DMaaP DataRouter API	API used to create feeds ,publish to this feed, subscribe to a feed	Date for which the API is reviewed and agreed	M2	API documentation

• Third Party Products Dependencies

Name	Description	Version
Zoo Keeper	Centralized service for maintaining configuration information	3.4.14
Spring	Spring Framework	4.3.18
Kafka	Distributed messaging platform	2.4.0
Docker	Container engine	18.09.x
AJSC	Java services container	3.0.10

• Testing and Integration Plans

1. Unit test: Unit tests has at least 50% code coverage.
2. Functional test: Leverage the robot framework infrastructure to provide the functional test.
3. Integration test: Support integration team to provide the end to end integration test.
4. All the above should be automation tests run on the LF Jenkins Infrastructure.

• 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

None currently

Please refer to [Frankfurt Defect Status](#)

• 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).

Please update any risk on the centralized wiki page - [Frankfurt Risks](#)

• 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 recommended 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
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• Documentation, Training

Please update the following centralized wiki: [Frankfurt Documentation](#)

That includes

- Team contributions to the specific document related to the project (Config guide, installation guide...).
- 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](#).