Centinel: Beryllium: Release Plan

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Introduction

In Beryllium, we plan to develop "Log Service" and plug-in for log analyzer (i.e. Graylog). Log service will do processing of real time events coming from log analyzer. Additionally, stream collector (flume and sqoop based) that will collect logs from Opendaylight and sink it to persistence service (integrated with TSDR). Also includes Restconf interface to inject events to north bound applications for real-time analytic/network configuration. Centinel User Interface (web interface) will be available to operators to enable rules/alerts/dashboard etc.

Release Deliverable

Name	Description
Log Service	Plug-in to log analyzer i.e. Graylog.
Log Service	Log analyzer abstraction layer to support multiple plug-ins.
Log Service	Features support for rule configurations, streams, alerts.
Centinel North Bound	Provides REST interface to applications above Centinel's framework.
Web Interface	for visualization of data from Centinel.
Stream Collector	Flume based stream collection of semi-structure/unstructured data. Collects logs from OpenDaylight
Stream Collector	Sqoop based stream collection of structured data. Support for MySQL.
Stream Collector	Sink streaming data to persistence service.

(Conforming to Beryllium dates)

Release Milestones

Milestone	Offset 1 Date				Deliverables		
M1	7/30/2015	Name		Statu	s Description		
		Intent to participate	•	Done	Intent to participate in Beryllium Simultaneous Release		
		Candidate Release	Plan	Done	Candidate Release Plan		
M2	8/27/2015	Name	St	atus	Description		
		Release Plan	Done Fi		Final Release Plan		
		Centinel design document	Doi	ne	 Design document with reference to Centinel plug-in, "log with more emphasis on Alert feature Define Yang model for configuration rules and events co collaboration. Submit skeleton patch. 		

M3	10/1/2015	Nai	Name		Description	
		Centinel skeleton		Done	Submit skelton for Centinel having plug-in, "log service" and "log analyzer abstraction"	
		Yang modelling		Done	Submit Yang models as applicable for Centinel	
		Centinel design docu update)	iment (incren	nental Done	 Wire frame Centinel - TSDR collaboration data model Design approach for additional features - Diagnostics, Health, Dashboard, Stream and Steam Collector 	
		Feature(s)		Done	 Log Service: Implementation of configuration module with Restconf support Log Service: Event handler - Implementation of aggregate module Log analyzer abstraction layer: Listen configuration rules and send it to plugin Plug-in to Graylog: Send rules to Graylog server. Support for streams Web Interface : Web interface development of configuration complete. Data Change listener : support for alert and stream 	
		Unit Test		Done	Unit Test development of each module	
		Integration and Syste	em test	Done	Simple system test on a karaf distribution with the project's recommended features installed	
M4 11/	11/12/2015	Name	Status	Description		
		API Freeze	Done	REST API from all Centinel services freeze		
		Feature(s)	Done	 Log service - Event handler : Aggregator complete. Event processor major functionality complete. Plug-in to Graylog complete Log analyzer abstraction layer : Publish all type of events to MD-SAL Stream collector: Persist OpenDaylight logs to persistence DB Stream Collector : Logback-flume client implementation(Collection of ODL/SFLOW logs) Web interface : Support for streams , alert and dashboard. Subscribe : Support for subscription of events Data change listener : Integration of listener with persistence service and Web interface complete 		
		Unit Test	Done	Unit Test development of each module		
		Integration testing	Done	Manual integratio	Manual integration testing among stream collector, persistence, log service and Web interface	
		System test	Done	Run a simple system test on a karaf distribution with the project's recommended features installed on Code Merge		
		Documentation	Done	Create draft documentation of Centinel modules/interfaces		
<i>N</i> 5	12/17/2015	Name	Status	Description		
		Code Freeze	Done	Centinel committed features all applicable code submitted		
		Documentation	Done		documentation to reflect changes/new features er-guide with operational instructions on how to use Centinel for stream data handler	
		Feature(s)	Done	 Log service – Event handler : Aggregator , event processor and persist module complete Integration with persistence service complete. Stream Collector : Sqoop integration with persistence service complete 		
		Unit Test	Done	Unit Test development of each module		
		Integration testing	Done	Manual integration testing among stream collector, TSDR persistence, log service, stream collector Web interface		
		System test	Done	Run system test f	or Centinel and integrated with TSDR feature set	
RC0	TBD	Name	Status	Descriptio	on	
		Deliverable Name		Deliverable Des	cription	
RC1	TBD	Name	Status	Descriptio	n	
		Deliverable Name		Deliverable Des		

RC2	TBD	Name	Status	Description
		Release Review		Release Review Description
		Deliverable Name		Deliverable Description
Formal Release	TBD	Name	Status	Description
		Deliverable Name		Deliverable Description

Externally Consumable APIs

• None Listed. Centinel creates own APIs based upon relevant data required.

Expected Dependencies on Other Projects

• Dependency on TSDR project

Expected Incompatibilities with Other Projects

None

Compatibility with Previous Releases

Changed APIs and/or Functionality

• Not applicable. This would be first release of Centinel in OpenDaylight Beryllium release.

Themes and Priorities

Requests from Other Projects

None Listed

Test Tools Requirements

• Java unit and integration tests

Other

See also

- Centinel Home Page
- Centinel Project Proposal
- Centinel Beryllium Release Plan
- Centinel-dev Archives
- File:Centinel Design document M2Sep072015-InitialDraft.pdf