Centinel

Welcome to Centinel

- Welcome to Centinel
- Introduction
  - Getting Started
  - High-Level Design
  - People
  - Issues
- Documentation
  - See also
- Release Planning
- Release Notes

Introduction

The Centinel project aims at providing a distributed, reliable framework for efficiently collecting, aggregating and sinking streaming data across Persistence DB and stream analyzers (example: Graylog, Elastic search, Storm etc.).

- In Beryllium Release - this framework enables SDN applications/services to receive events from multiple streaming sources and execute actions like network configuration/batch processing/real-time analytics. Provides Log Service to assist operators running SDN ecosystem.
- In Boron Release - this framework is upgraded to provide (1) Additional network data collection - IPFIX, SNMP and OpenFlow (2) Data Analysis: Using Kafka, Storm/Spark, Flume (3) Analytics Dashboard: Enhanced UX/UI - Graphana/Kibana and (4) Machine Learning: Leverage Apache Mahout/SparkMlib to enable machine learning based on above analysis
- In Boron Release - the end to end eco-system use-cases targeted using Centinel are (1) Bandwidth utilization across WAN link (2) Performance monitoring and (3) Machine Learning based on above Analytics and Actions

Getting Started

- Centinel Getting Started

Release	Release Plan	Release Notes	Release Review	Installation Guide	Feature Integration System Test	Developer Guide	Operations-User Guide	How-To's /Tutorials
Beryllium	Release Plan	Release Notes	Release Review	Installation Guide	System Test	Developer Guide	User Guide	-
Boron	Release Plan	Release Notes	Release Review	Installation Guide	System Test	Developer Guide	User Guide	

High-Level Design

For High Level Design and Architecture please refer the project proposal page for more details.

- Beryllium Design document Centinel: Streaming Data Handler
- Boron Design document - File:Centinel-DesignDocument-M2-DataCollectors.pdf

People

- Abhishek Sharma <abhishek.abhi@tcs.com>
- Sumit Kapoor <sumit.kapoor@tcs.com>

Issues

None

Documentation

- User Guide (Beryllium)
  - Centinel User Guide
- Installation Guide (Beryllium)

Project Facts

Project Creation Date: Aug 13th, 2015

Lifecycle State: Incubation

Primary Contact: Abhishek Sharma <abhishek.abhi@tcs.com>, Swati Tyagi <tyagi.swati@tcs.com>

Project Lead:

Abhishek Sharma <abhishek.abhi@tcs.com>

Committers:

- Sumit Kapoor sumit.kapoor@tcs.com [sumitkapoor]
- Abhishek Sharma abhishek.abhi@tcs.com [abhishek.abhi]

Mailing List: centinel-dev@lists.opendaylight.org
Archives: mailing list archives

Meetings: See Community Meetings

Repository: git clone https://git.opendaylight.org/gerrit/centinel

Jenkins: jenkins silo

Gerrit Patches: code patches /reviews

Bugs:

- Open Bugs
- Report a bug

    - Centinel Installation Guide
- User Guide (Boron) - As features are experimental hence changes to User Guide not applicable.
- Installation Guide (Boron) - As features are experimental hence changes to Installation Guide not applicable.

See also

- **Centinel Home Page**
- Centinel Project Proposal

- Centinel-dev Archives
- File:Centinel - Design document M2Sep072015-InitialDraft.pdf
- File:Centinel-DesignDocument-M2-DataCollectors.pdf

Requirements

Release Planning

Release	Release Plan	Release Notes	Release Review	Installation Guide	Feature Integration System Test	Developer Guide	Operations-User Guide	How-To's /Tutorials
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Release Notes