

Forward Gerrit events to Jenkins via AWS Kinesis

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ABOUT GERRITFORGE



Founded in
the UK



HQ in London with
presence in Europe and
the USA (GerritForge Inc.)



Committed to
OpenSource
and to Gerrit
Code Review
since 2009



kibana



HOW GERRIT EXPOSES STREAM EVENTS: STATUS QUO

- **SSH Connections**
 - **Native or via Events plugin**
- **Events RabbitMQ broker**
- **Events Kafka Broker**
- **Events Gcloud PubSub Broker**
- **Events AWS Kinesis Broker**

HOW JENKINS TRIGGERS A BUILD: STATUS QUO

- **Gerrit Trigger Plugin**
 - **Listening to stream events via SSH**
 - **Consuming stream events from RabbitMQ**
- **Gerrit Codereview Plugin**
 - **Webhook triggered by Gerrit**

JENKINS AWS KINESIS PLUGIN

- **Consumes Records from AWS Kinesis**
 - **AWS Kinesis: scalable and durable real-time data streaming service**
 - **Not necessarily Gerrit events**
- **Trigger build upon message receive**
- **Exposes an “extension point” and call subscribers**

WHY A NEW PLUGIN?

- **Effort to make Gerrit Ecosystem Cloudnative**
- **GerritForge AWS Gerrit project**
- **Common pattern to have Jenkins workers in AWS**
- **Is the RabbitMQ plugin still maintained?**
 - **Last commit was 4 years ago**

INTEGRATION COMPARISON

	Durable events	Scalable	Easy Setup	CloudNative
GTP - SSH Stream	N	N	N	N/A
GTP - RabbitMQ	Y	Y	N	N
GCR - Webhook	N	N	Y	N/A
GCR - Kinesis	Y	Y	Y	Y

CONFIGURATION

AWS Kinesis Consumer

Enable consumer



Region



us-east-1

ApplicationName



test-kinesis



Advanced...

Streams

Stream name



grrit_stream

Initial position in stream



TRIM_HORIZION

Trigger SCM Build



Project Name JSON Path query



\$.body.projectName

Test Connection

Delete

Add



DEMO

POLLS AND Q&A



Image from: <http://cypp.rutgers.edu/ru-voting/political-information/public-opinion-polls/>

USEFUL LINKS

- [Jenkins AWS Kinesis consumer](#)
- [Events RabbitMQ broker](#)
- [Events Kafka Broker](#)
- [Events Gcloud PubSub Broker](#)
- [Events AWS Kinesis Broker](#)
- [Gerrit events via RabbitMQ presentation](#)

WANTS TO KNOW MORE?



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