

Main page Recent changes Server admin log (Prod) Server admin log (RelEng) **Deployments** SRE/Operations Help Incident status

Cloud VPS & Toolforge

Cloud VPS documentation **Toolforge** documentation Request Cloud VPS project Server admin log (Cloud

VPS) Tools

What links here Related changes Special pages Permanent link Page information Cite this page

Print/export

Create a book Download as PDF Printable version

Page Discussion View source

View history

Search Wikitech

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## Incident documentation/20150803-Kafka

< Incident documentation

## Summary

A gradual upgrade was planned do to expand the Kafka cluster and to bring it to Jessie running Kafka 0.8.2.1 in https://phabricator.wikimedia.org/T106581&.

Otto tested this upgrade plan in labs, and all was fine. However, the testing was not extensive enough, as it was not tested with varnishkafka or a regular stream of events.

## Timeline

At 2015-08-03T17:21, Otto began the process of partition reassignment to balance partitions across 6 nodes, 3 of which were the original Precise with Kafka 0.8.1.1, 3 Jessie with Kafka 0.8.2.1. This seemed fine, but Otto believes that once some partitions were totally moved off of the original 0.8.1.1 brokers, things started going wrong. Otto is still not entirely sure what went wrong. He spent several hours attempting to reconcile the problems. During this time, most varnishkafkas were still producing. However, many of them periodically failed with metadata request timeouts, which caused failed produce requests.

After several hours of trying to fix this, Otto decided the faster way to get everything back to normal would be to revert to only the 4 original 0.8.1.1 Kafka brokers, by wiping the Kafka cluster metadata and data clean and starting from scratch. This was done at at 2015-08-03T23:45. After this, the status quo was restored and message production and consumption proceeded as normal.

Webrequest data experienced significant loss during this outage. Data in Hadoop between 2015-08-03T17:00 and 2015-08-04T00:00 should be considered unreliable.

See also: Analytics/Data/Webrequest

## Actionables

- Status: Done Rebuild 0.8.2.1 Kafka .deb package with updated Snappy dependency, and double check other dependencies in gradle.
- Status: Done Figure out what went wrong and/or do more extensive testing in labs.
- Status: Done Augment deployment plan to do this again without incident.

Category: Incident documentation

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