Static Infrastructure Status with Jekyll and GitHub Pages

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About me

@schildwaechter

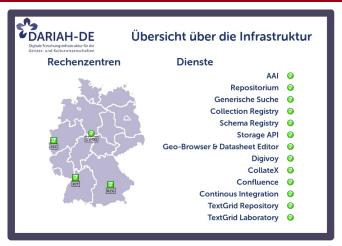
IT infrastructure at SUB Göttingen DARIAH-DE Research Infrastructure for Digital Humanities ~40 servers with Puppet

The Problem

- Large distributed infrastructure
- Lots of different services
- Services depend on infrastructure components
- They fail (sometimes)
- Users want & need to be informed quickly!



Monitoring



- Automated checks and notifications
- Missing context is someone working on it?

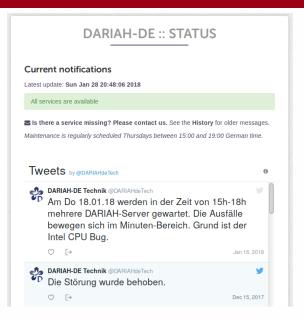
Requirements

- Manually added notifications
- ► Independent from our infrastructure
- Easily accessible in case of an emergency
- Low maintenance

GitHub Pages with Jekyll

- Simple syntax
- Completely independent
- Availability of credentials not a problem
- Static pages are low risk

All is well ...



When disaster strikes ...

Problem

What is actually affected by an outage of X?

When disaster strikes ...

Problem

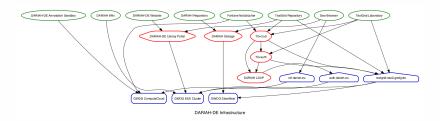
What is actually affected by an outage of X?

Jekyll Collections

Infrastructure inventory with dependencies

Under the hood

- Standard GitHub Pages without custom plugins
- Infrastructure inventory as Jekyll Collections
- Outages and Announcements as Jekyll Data
- Dependency resolution with recursive liquid templates



Beyond git push

- GitHub Pages builds the pages
- ► That breaks on dependency errors
- Travis-CI runs more checks, e.g. is graph up to date?
- Data is rendered to yaml for inclusion in static history i.e. no dynamic dependency resolution

So when the storage breaks ...



And sometimes things happen ...

HISTORY

DARIAH Service Downtime on Saturday, July 22

Effective from 2017-07-21 until 2017-07-24.

Due to maintanance work at the computing center (interruption of the power supply) most DARIAH-DE Services will not available from July 21 to July 24.

Affected services:

DARIAH Repository

DARIAH Wiki

DARIAH-DE Annotation Sandbox

DARIAH-DE Website

Fontane Notizbücher

Geo-Browser

TextGrid Laboratory

TextGrid Repository

Future work

- Add full infrastructure
- Use an export from (planned) CMDB
- ► Generic solution?

Thanks!

https://dariah-de.github.io/status