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!
» 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 …

DARIAH-DE :: STATUS

Current notifications
Latest update: Sun Jan 28 20:48:06 2018

All services are available

Is there a service missing? Please contact us. See the History for older messages.

Maintenance is regularly scheduled Thursdays between 15:00 and 19:00 German time.

Tweets by @DARIAHdeTech

DARIAH-DE Technik @DARIAHdeTech
Jan 16, 2018

DARIAH-DE Technik @DARIAHdeTech
Die Störung wurde behoben.
Dec 15, 2017
When disaster strikes …

Problem

What is actually affected by an outage of X?
When disaster strikes ...

<table>
<thead>
<tr>
<th>Problem</th>
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<tbody>
<tr>
<td>What is actually affected by an outage of X?</td>
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<th>Jekyll Collections</th>
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<td>Infrastructure inventory with dependencies</td>
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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**


Due to maintenance 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?
https://dariah-de.github.io/status