Intro

Go Free Range

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Whitehall

Smart Answers

Manuals Publisher

Asset Manager

GOV.UK assets

Static assets

Uploaded assets

700GB

2,500,000

/media

/government/uploads

Creating assets

Specialist Publisher

Manuals Publisher

Service Manual

Travel Advice Publisher

Whitehall

Serving assets

NFS

Rails + X-Sendfile

nginx

Fastly CDN

Problems

Two apps

Three types of asset

Asset Manager assets

Whitehall non-attachments

Whitehall attachments

Virus scanning

NFS overhead

Complicated routing

Asset Manager

— assets fastly

— assets-origin nginx

— static nginx

— asset-manager nginx

— asset-manager Rails

— NFS

Whitehall

— www.gov.uk fastly

— www-origin nginx

— Varnish

— Router

— whitehall-frontend nginx

Project goals

Single app

NFS to S3

Our approach

General approach

Prioritisation

Investigation

Decision

Serving from S3

Whitehall to Asset Manager

Done

Storing on S3

Serving from S3

Reducing NFS use

Doing

Asset Manager serving Whitehall attachments

Next

Consolidate behaviour

Improve virus scanning

Improve URL structure

Rewrite content

Assets in Content Store

Challenges

Asset hosts

HMRC assets

Limited nginx tests

CarrierWave versions

Missing Content-Types

Useful tips

nginx debug logging

$RANDOM

More information

Asset Manager GitHub issues

Google Drive