



Data Management for extreme scale computing

# HTTP Caching All Hands Meeting



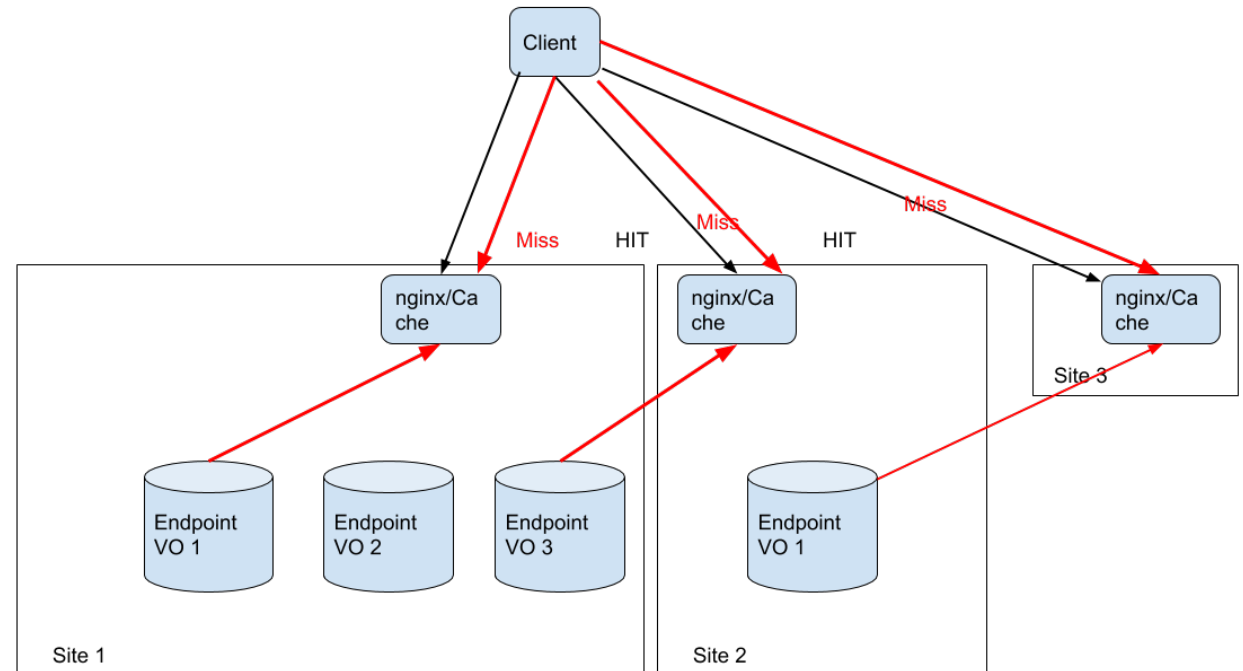
Antonio Falabella  
[antonio.falabella@cnaif.infn.it](mailto:antonio.falabella@cnaif.infn.it)

# HTTP Caching

- ✗ The idea is to implement a caching mechanism for data transfers that use HTTP/WebDAV as transport protocol
- ✗ Storage Management services in WLCG support HTTP
- ✗ A cache system can be implemented using off-the-shelf software

# HTTP Cache Implementation

- ✗ Use of **nginx** for this known features of high performance, high scalability, and built-in proxy cache support
- ✗ The cache can sit in front of site host data for several VOs/experiments
- ✗ In front of a smaller site hosting data of a single VO/experiment
- ✗ It can be deployed with no storage (i.e. Cloud providers)



# Development and Test

- ✕ Module developed for nginx-1.x.y
- ✕ Control version and documentation with git using gitlab instance at CNAF
- ✕ Testing performed on local resources
- ✕ Local test bed setup with docker-compose

# Release Plan

- ✕ Test source code of the nginx module can be distributed as git repository with additional information for testing
  - ✕ Control version and documentation with git using gitlab instance at CNAF
  - ✕ Distribution also via docker container
  - ✕ Test-bed and Demo can be setup on the XDC test bed resources