



FUNET

Datacenter IaaS workshop
11./12. Sep. 2014 Helsinki



File Sync and Share

Cloud services in education and research

powered by



12 SEP 2014

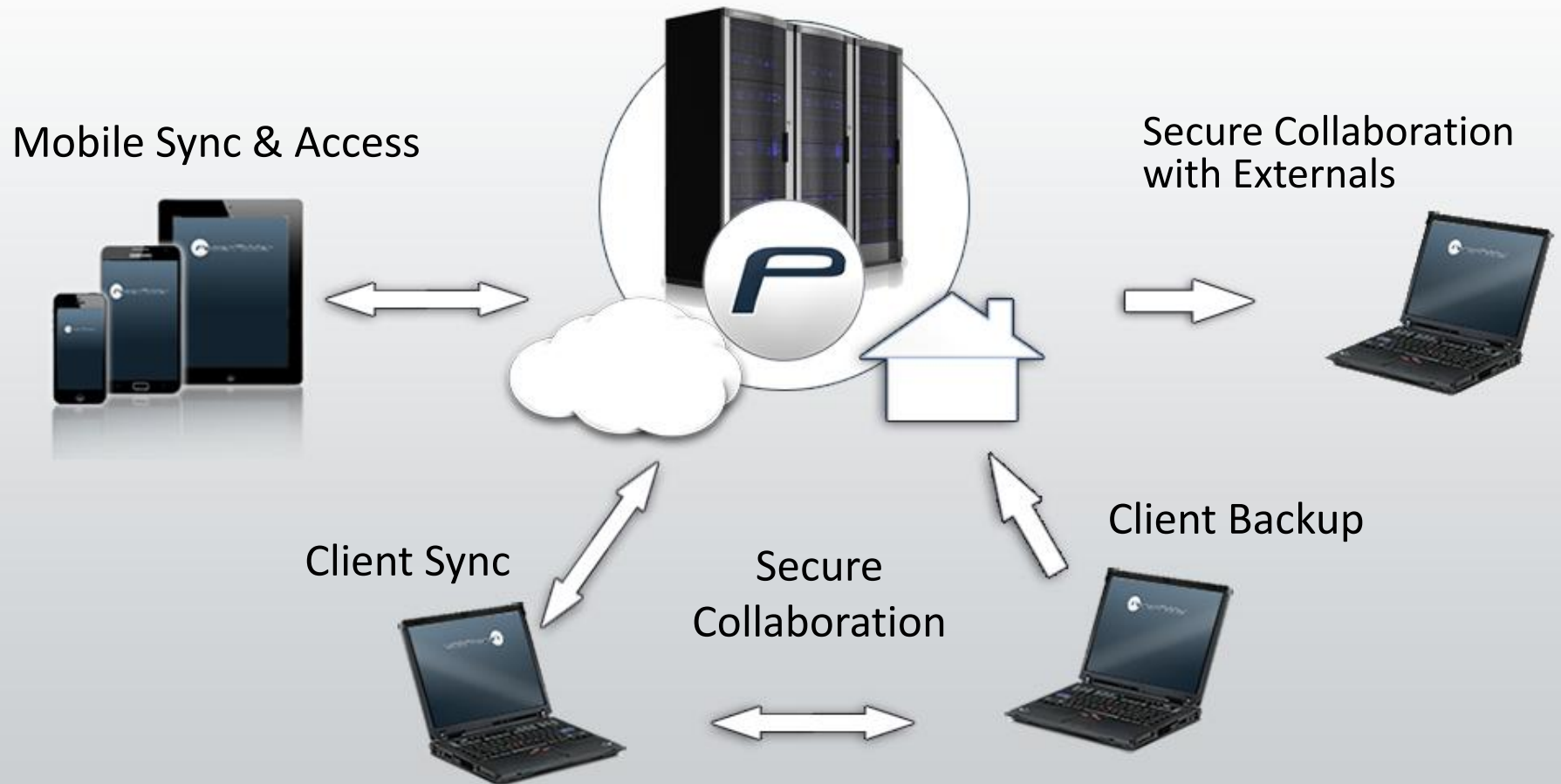
Roadmap for today

- Introduction
- Use cases / Installations
- Building a Sync & Share Cloud
 - Federated AAI
 - Large scale research scenarios
- Get started
 - Free PowerFolder Server edition
 - Cloud Services based on PowerFolder

PowerFolder - Background & Contact

- Headquartered in Meerbusch next to Düsseldorf, Germany
- Sync- and Share- Software since 2007 for Business, Education- and Research-Organizations
- Market leader for File Sync and Share solutions in education and research in Germany
- Contact: Christian Sprajc (CEO and Founder):
sprajc@powerfolder.com
- Webpage: www.powerfolder.com

PowerFolder – Federated Sync and Share - easy to use, rock-solid







IT in der Wissenschaft

CLOUD SHARE



- Sync and Share cloud available to international universities and research organizations
- References:
 - University of Göttingen
 - Max-Planck Society
- Access via LDAP, Database, federated RADIUS and Shibboleth
- (Planned) Federated access via 
- Flexible storage sizes - Contact PowerFolder to become a user

- Largest EDU-Sync and Share cloud in Germany
- 9 Universities plus ~65 higher educational institutions
- Reach: ~500.000 users
- Funded by the Ministry of Science, Research and Art

- Single Sign on user authentication via Shibboleth:
-  AAI Metadata + Discovery Service (WAYF)
- 10 GB storage per user - upgrades available
- Part of the bwLSDF project: 10 PB storage in total
- PowerFolder scored with its years of experience, its service and flexibility...

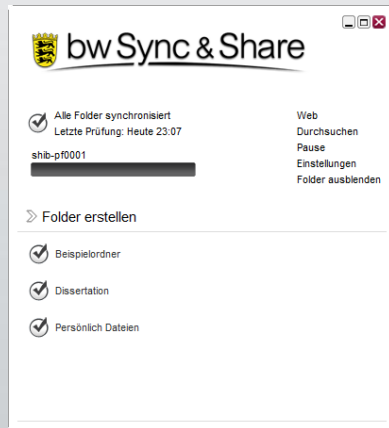
Building a Sync & Share Cloud

1. Federated AAI
2. Large scale research scenarios

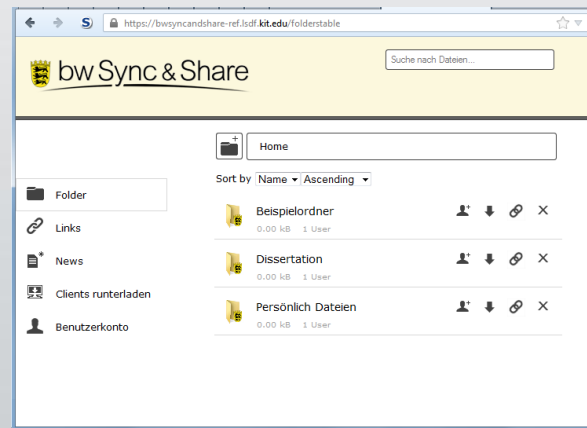
1. Federated AAI – Anywhere, anytime

Client

Win, Linux & Mac

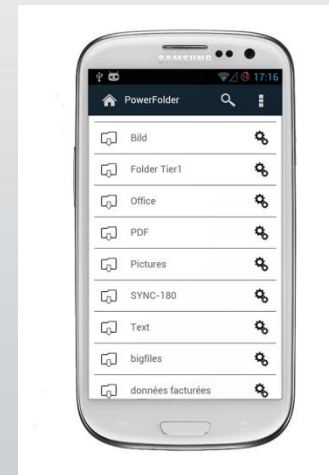


Web-Browser



Mobile Apps

iOS & Android



1. Federated AAI – Web Access

Today's AAI easily support web access...



bw Sync & Share

Der Dienst bwSync&Share ist ein Online-Speicherdienst, der es Mitarbeitern und Studenten der Universitäten und Hochschulen im Land Baden-Württemberg ermöglicht, ihre Daten zwischen verschiedenen Computern, mobilen Endgeräten und Benutzern zu synchronisieren bzw. auszutauschen und gleichzeitig am Karlsruher Institut für Technologie zu sichern. Der Datenzugriff kann dabei mit Hilfe von Sync&Share Clients für die Betriebssysteme Windows, Mac OS, Linux, Apple iOS und Android sowie plattformübergreifend per Webbrowser erfolgen.

Bitte wählen Sie Ihre Heimateinrichtung aus der nachfolgenden Liste...

UNIVERSITÄT HOHENHEIM



Universität
Hohenheim



Karlsruher
Institut für
Technologie (KIT)

Hochschule
für Technik
Stuttgart

University of Applied Sciences

Hochschule für
Technik Stuttgart



Albert-Ludwigs-
Universität
Freiburg

UNIVERSITÄT
MANNHEIM

Universität
Mannheim

Universität
Konstanz



Universität
Konstanz

Wählen Sie Ihre Institution aus...

OK

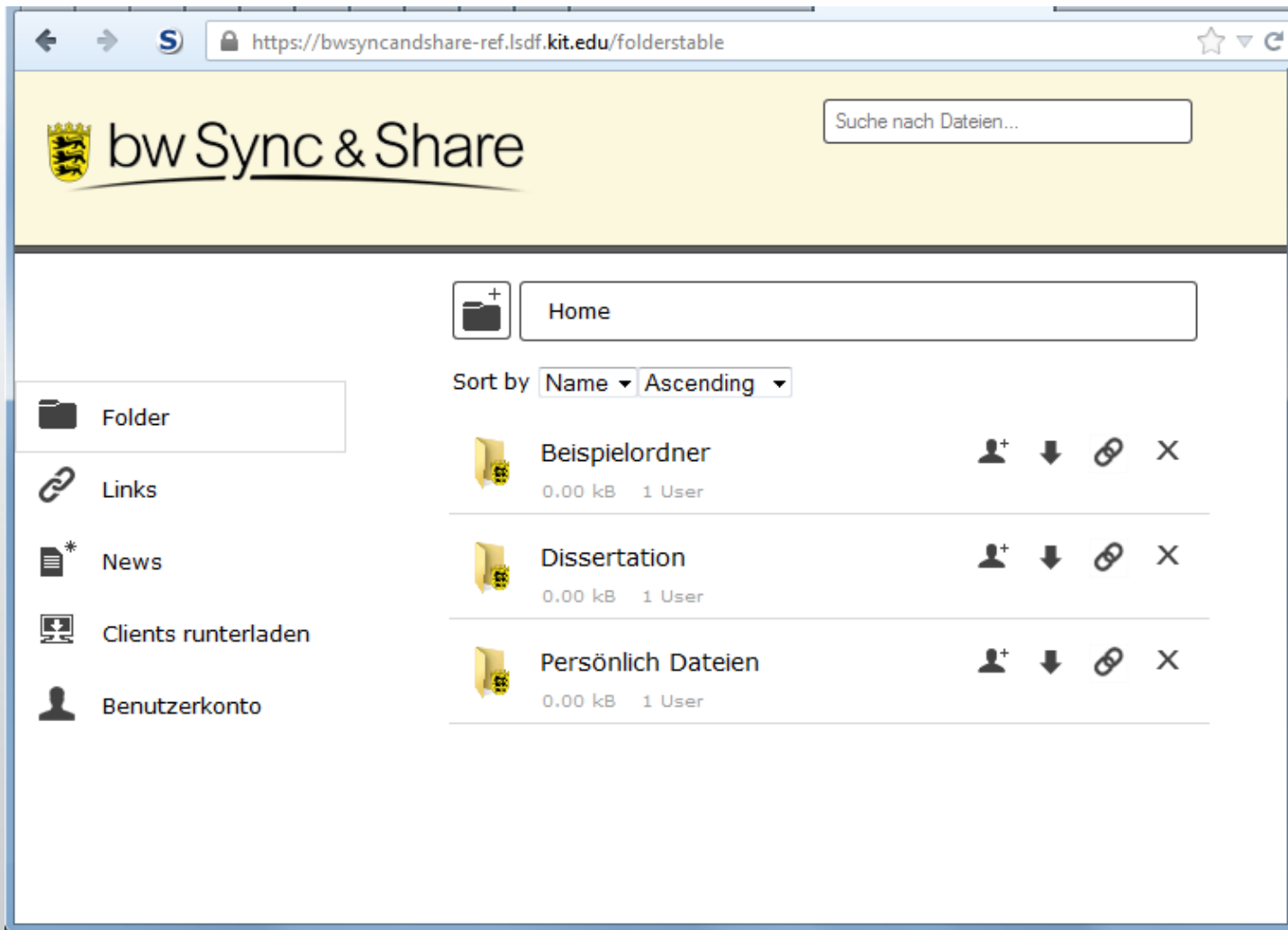
UNIVERSITY OF
MANNHEIM

Log in to BW Sync and Share

Username

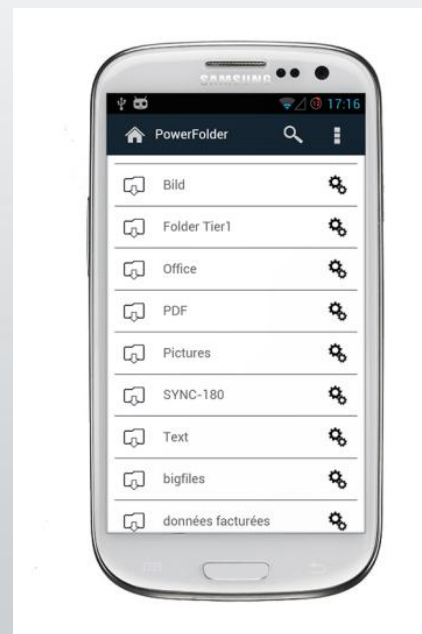
Password

Login




1. Federated AAI – Sync clients

For sync clients it can become tricky...



1. Federated AAI – PowerFolder Sync clients – IdP selection

Login Wizard




Login

Institution:

Nutzerkennung:

Password:

by 

Cancel

Login Wizard



Login

Institution:

Nutzerkennung:

Password:

☒ Remember password

by 

Cancel

Building a Sync & Share Cloud

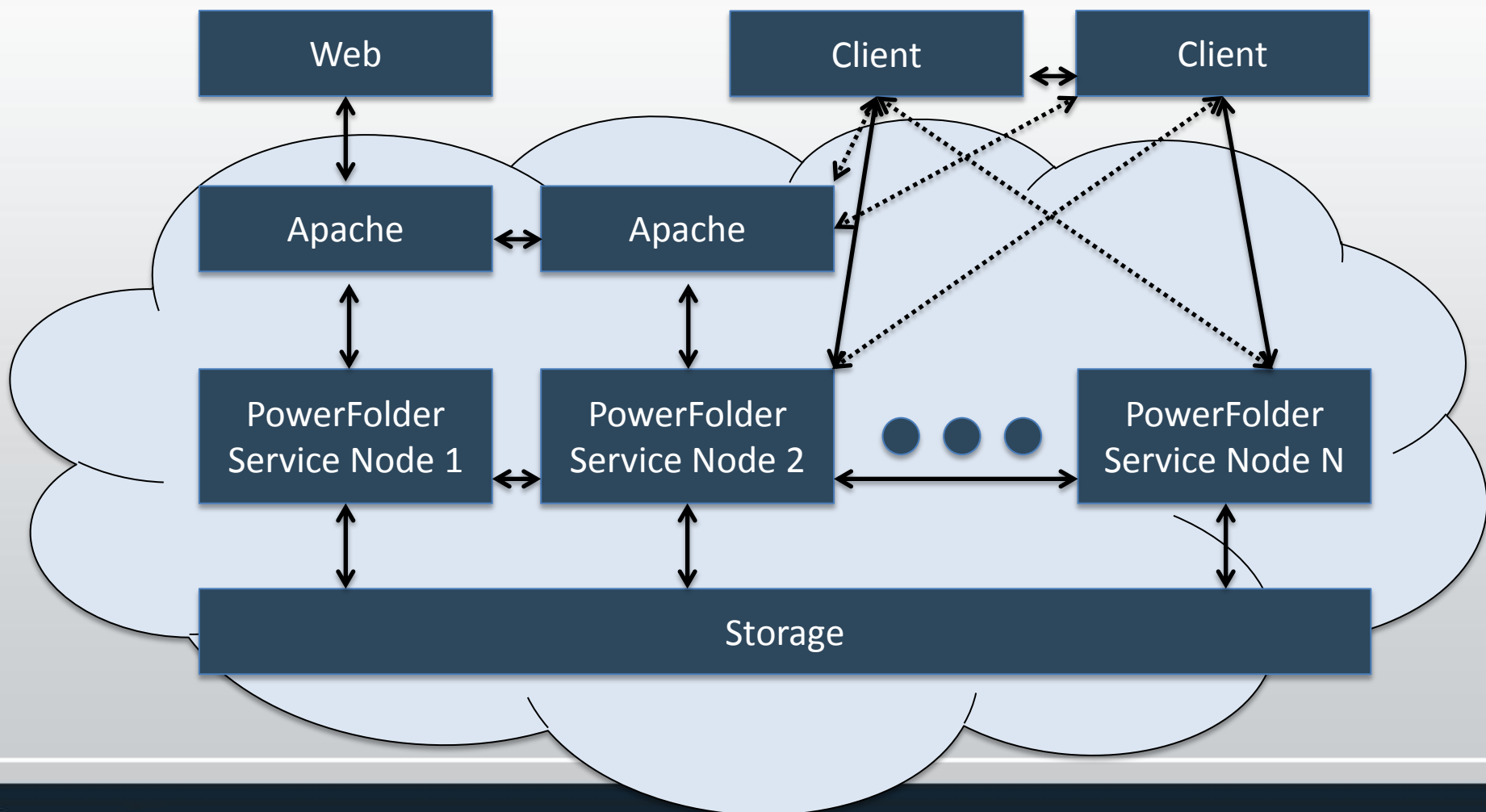
2. Large scale research scenarios



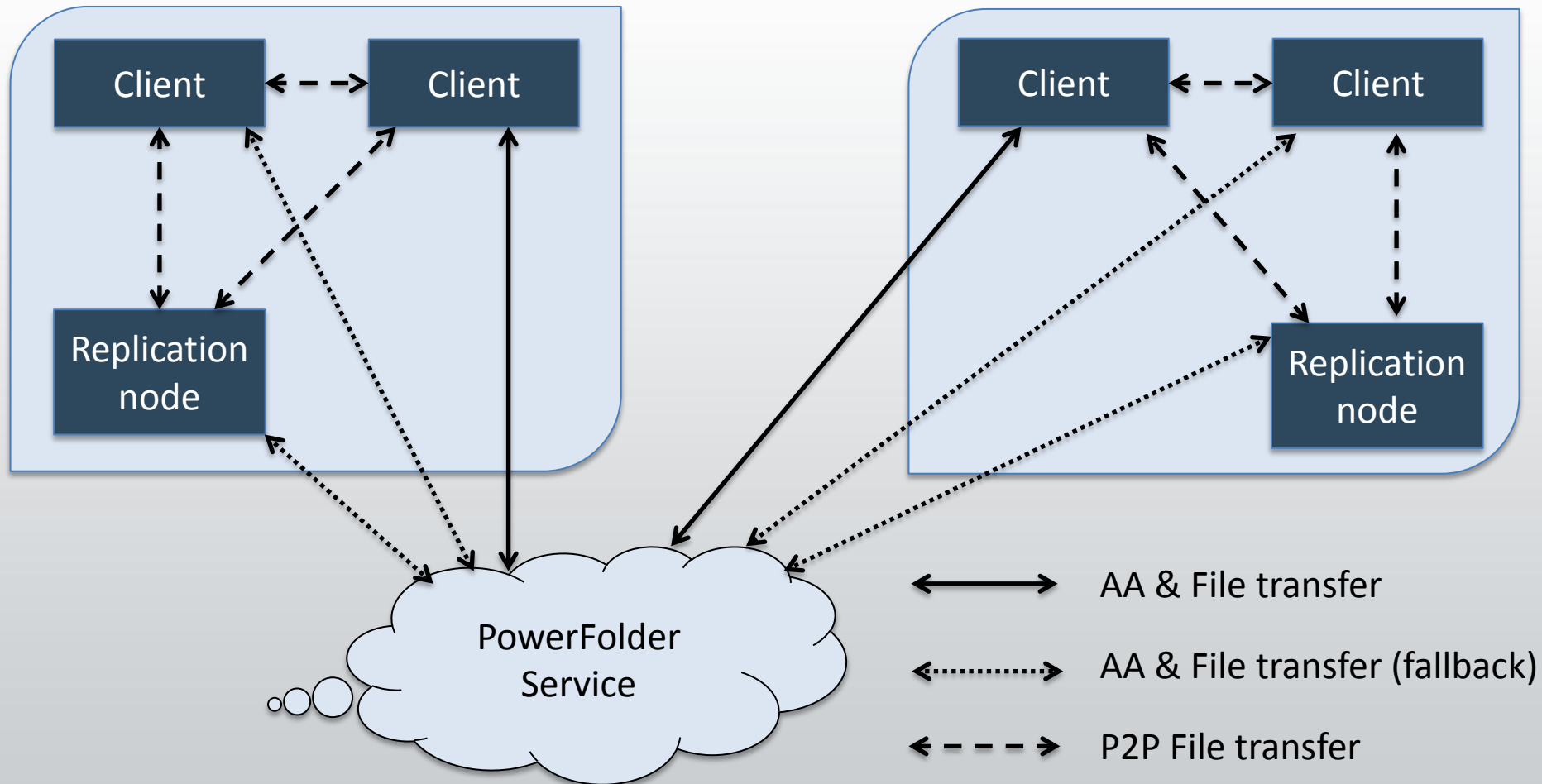
2. Large scale research scenarios

- Flexible – Service resources should scale up and down according to current load
- Highly available – e.g. upgrades should not affect the service availability
- Efficient – Utilize distributed storage locations and network connections for fast file transfer

2. Large scale – flexibility and high availability



2. Large scale – Peer-to-Peer brings efficiency



Conclusions - Your own PowerFolder Sync and Share Cloud

1. Flexibility & High availability
2. P2P helps to keep to load and traffic low – thus saves costs!
3. Built-in replication – efficient large file handling

Get started

- Build your own PowerFolder cloud:
 - Free PowerFolder Server edition at www.powerfolder.com
 - Contact us for service and support: contact@powerfolder.com
- Sync & Share Clouds based on PowerFolder:

