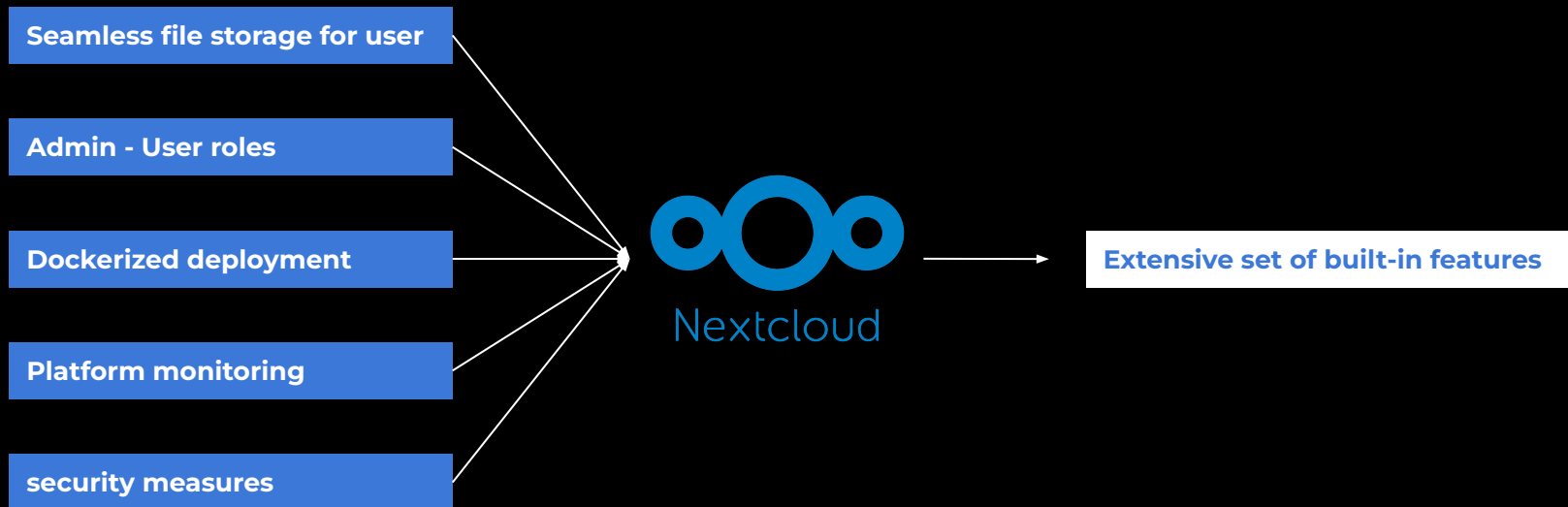


Cloud-based file storage system

**Fu Ziyang
SM3800011**



Introduction





Introduction

Security measures



User
authentication
through email
server



Enforce robust
passwords
through
passwords
etiquette



Data security
through
server-side
encryption

2

Two-factors
Authentication



Secure
clients-server
communication



Introduction

Security measures

Monitoring and Testing

Monitoring

1

Login as admin



2

Enable the built-in
application



3

Dashboard in the
System section

Testing with



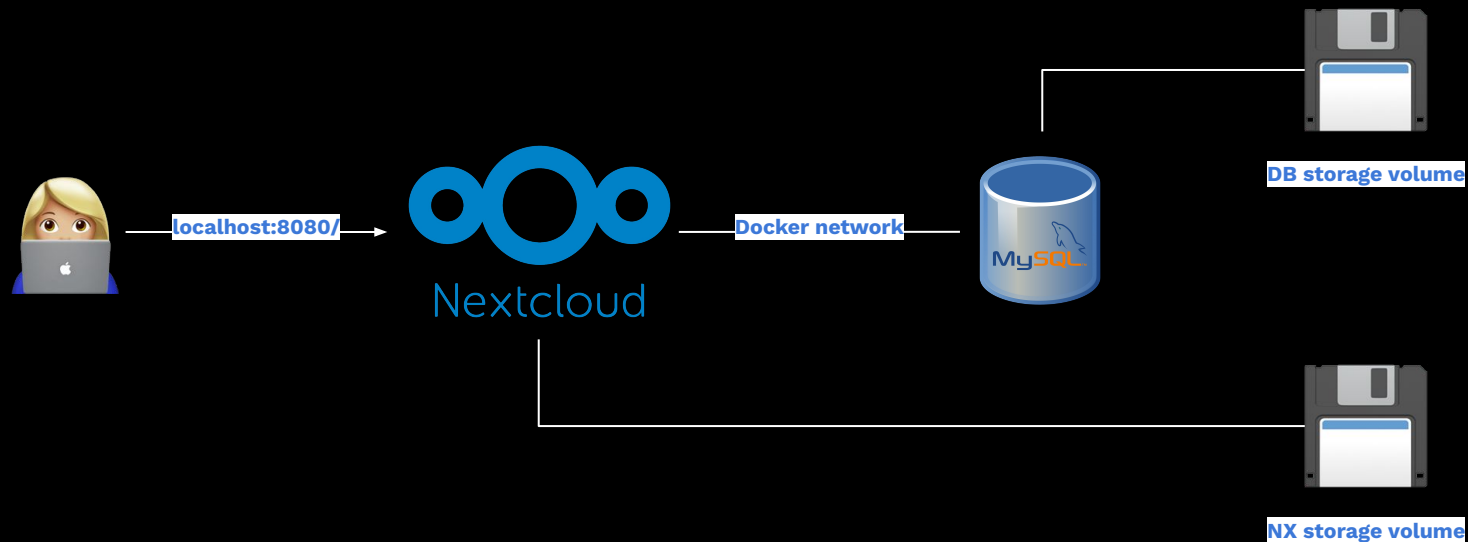
30 concurrent users

GET: read a file

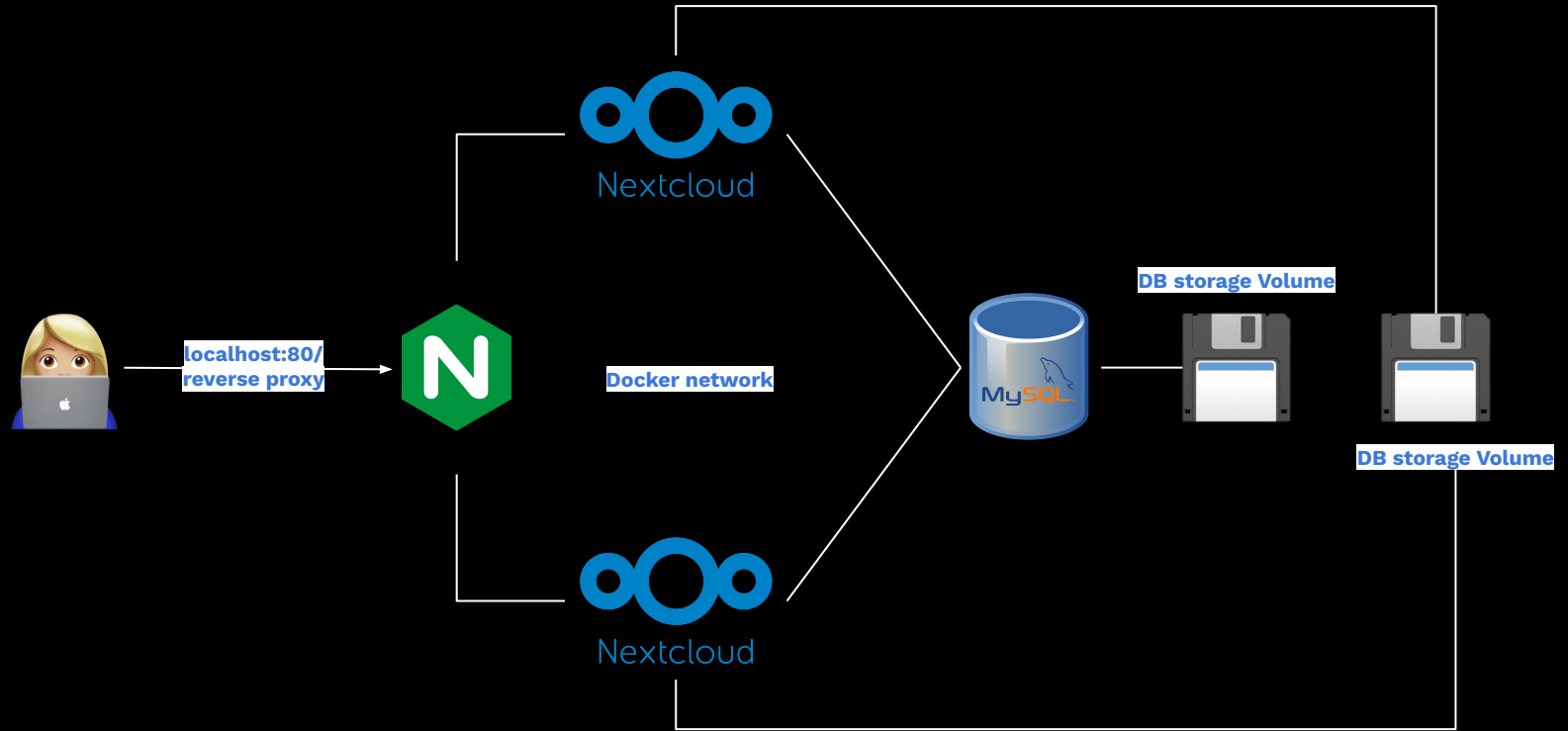
PUT: upload files

DELETE: remove files

First configuration



Second configuration





Introduction

Security measures

Monitoring and Testing

Deployment

Simply carried out by means of





Introduction

Security measures

Monitoring and Testing

Deployment

Scaling

Internal solution by combining On-premise cluster and Docker swarm



Data ownership

Hardware control

**Flexibility and
customization**



Large initial Capex

**Regular
maintenance**

Specialized staff

Outsourcing to external provider



Scalability

Global reach

**Modern standards:
OBJ storage**



Storage costs

Usage costs

Non data residency