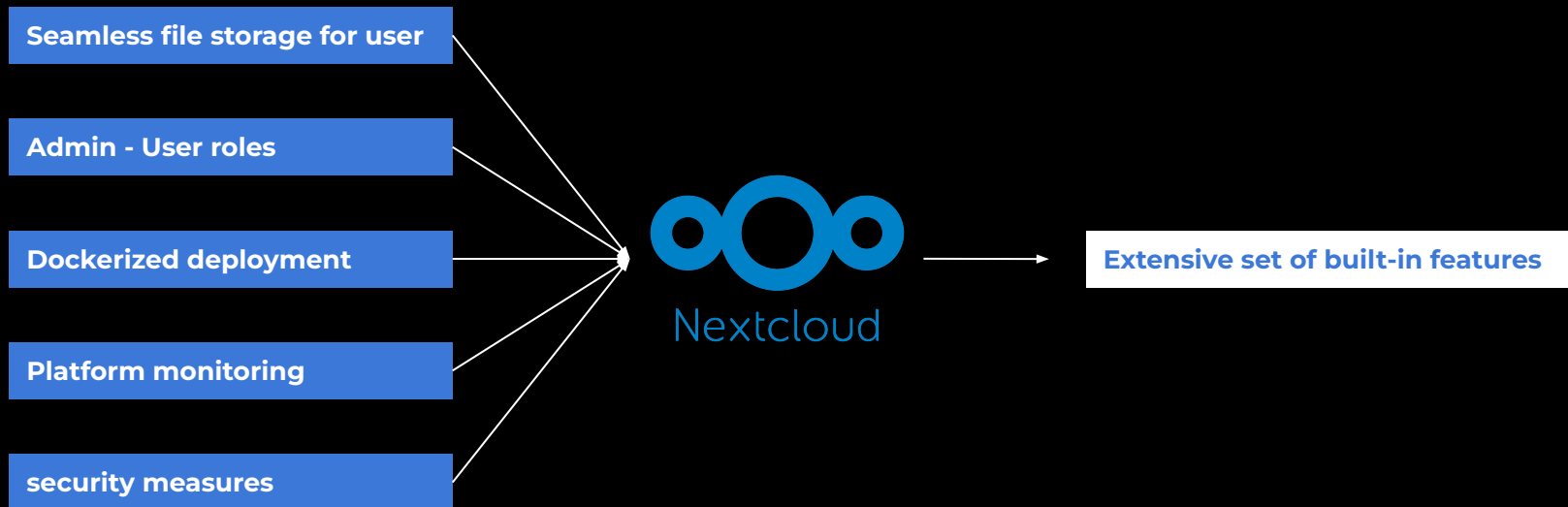


# **Cloud-based file storage system**

**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**



**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**