Project : mycloud

Architecture
Application design
Backend (DNS,Mysql, Apache,Shinken)

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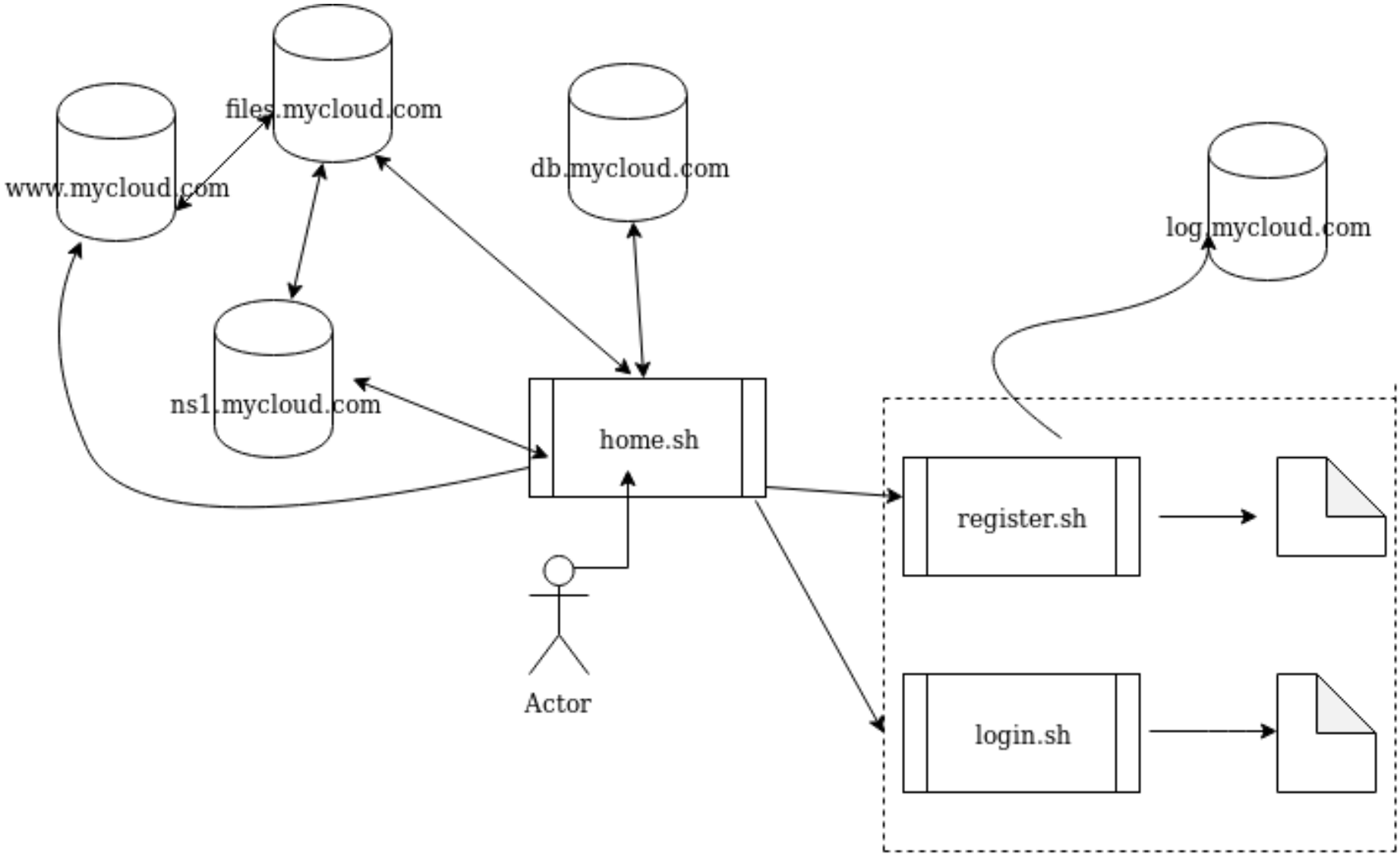
architecture



Front end

- User initiates “home.sh” script (assumes root user)
- Major script includes register.sh and login.sh
- These two scripts call other sub scripts
- Every script is modular

functions

- **Register and login**
- **Sync files to cloud**
- **Checkout backups/files**
- **Rollback changes to local repo**
- **Automated and manual backup support**

DNS server (ns1.mycloud.com)

- **Used bind on a separate lxc so that other servers can query it**
- **Defined “who can query ns1”**
- **Defined zone**
- **Defined NS, A, PTR records**
- **Requires other lxc use this name server**

Database server (db.mycloud.com)

- **Users can perform queries via client account on mysql server**
- **This account has select,insert,update permission on mycloud database**
- **Mycloud database has two tables**
- **accounts<username,name,email,status,password>**
- **plans<username,storage,backup,payment>**

Web server (www.mycloud.com)

- **Simple apache setup**
- **Every user has a file in var/www/html/**
- **This file shows available backups for user**
- **This file is “curled” from login.sh of user**

Logging (log.mycloud.com)

- **Application level logs sync to separate log server**
- **Logger.sh script in invoked with necessary argument**
- **Meanwhile, apache, bind,mysql logs are kept in corresponding server, later sycned to logging server.**

Monitoring (monitor lxc)

- **Used shinken with nagios plugins**
- **check_ping plugin is used to monitor the up status of corresponding server**

Questions?