Induction training of Dev Team

Evolution of a Site's Architecture
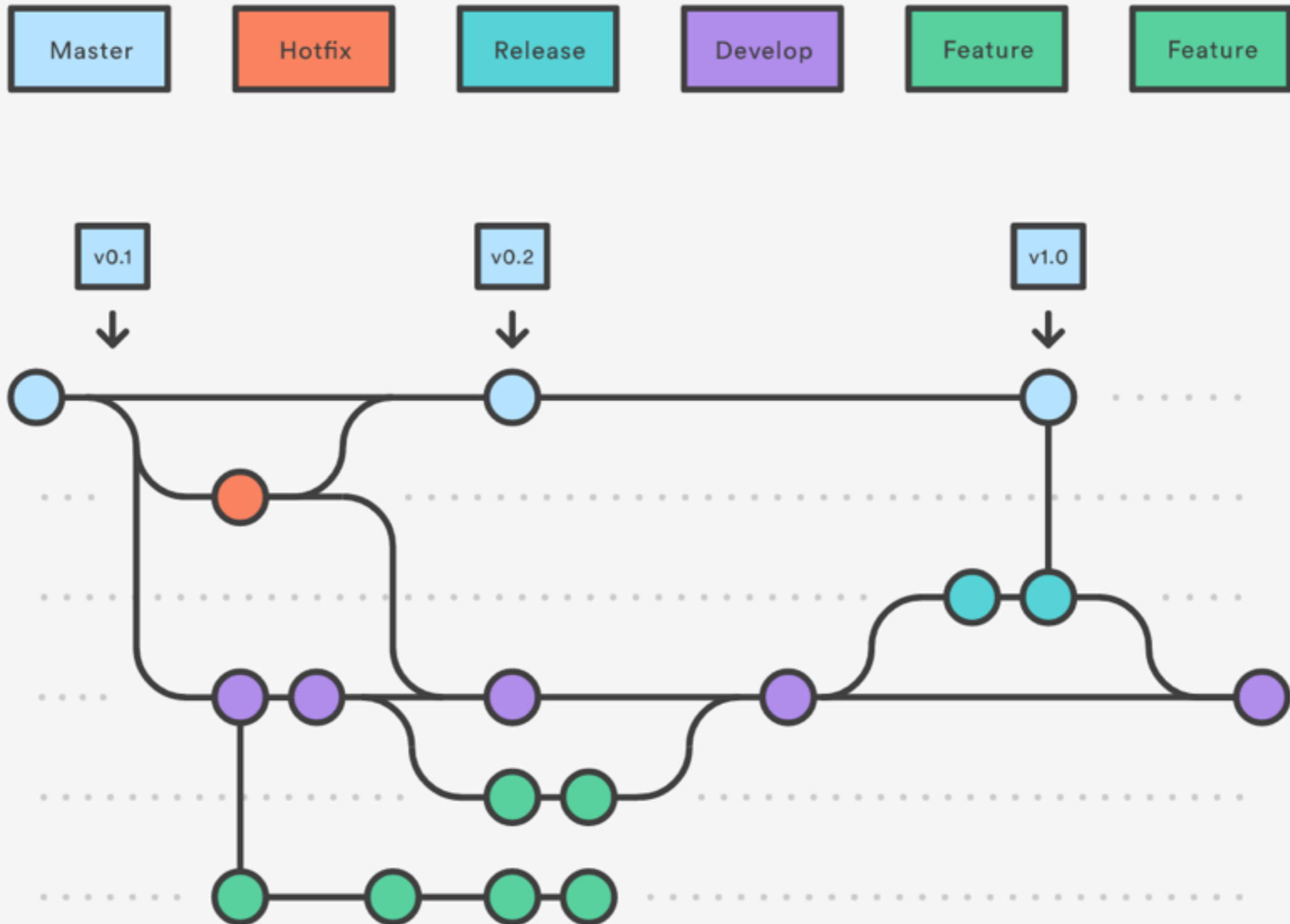
By PuGong

List

- Product / Develop / Operation

- Software lifecycle

- ITIL

- **Source Control**

- **Evolution of A Website's Architecture**

- AA & SSO

- Cache

- Message Queue

- Storage

- Database and SQL

- NoSQL & New SQL

- TOGAF & 4+1 Arch View

- 测试

- 发布

- 监控

Source Control

- Tools

  ‣ GIT

  ‣ SVN

  ‣ VSS

- Source Control Workflow

  ‣ Dev/Mainline/Release/Hotfix
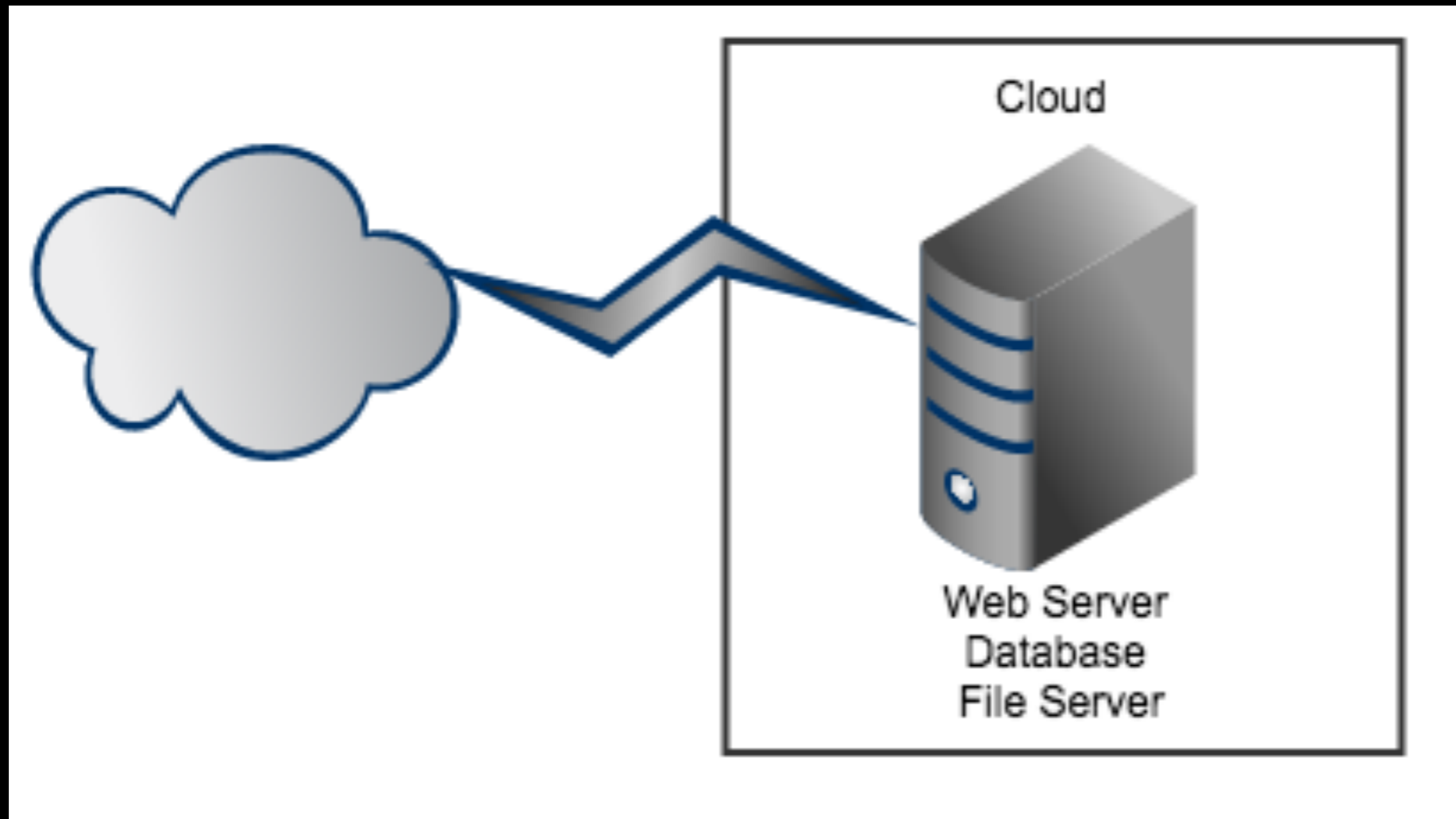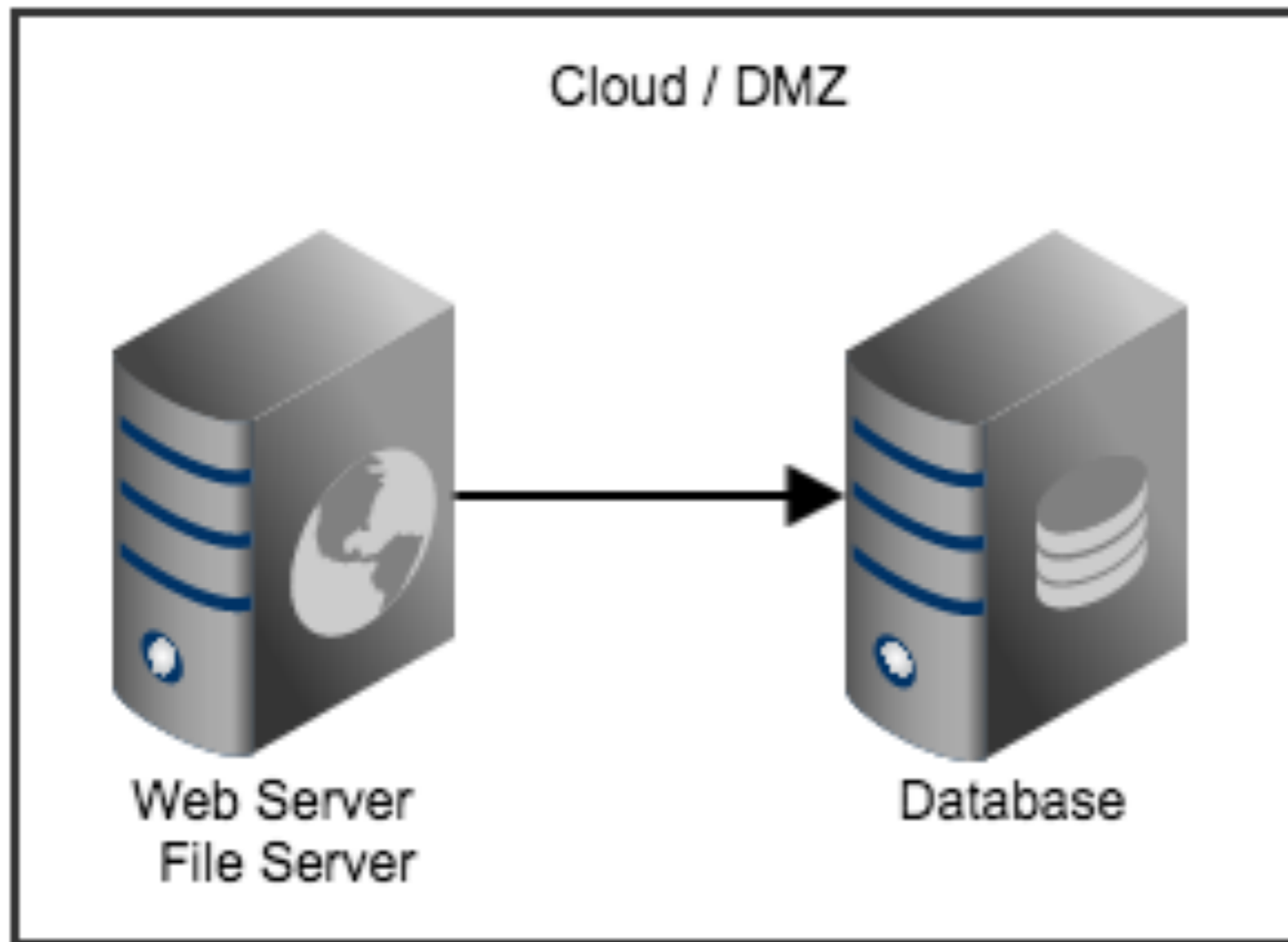
GIT Workflow

Evolution of a Site's Arch

- 单机 （Web + DB + File Server）

- Web / DB分离（Web + File Server； DB）

  ‣ Varnish / Squid / Nginx缓存

- Web集群（Web［多台］， File Server， DB）

- 增加缓存 （Web， Memcache / Redis， File Server， DB）
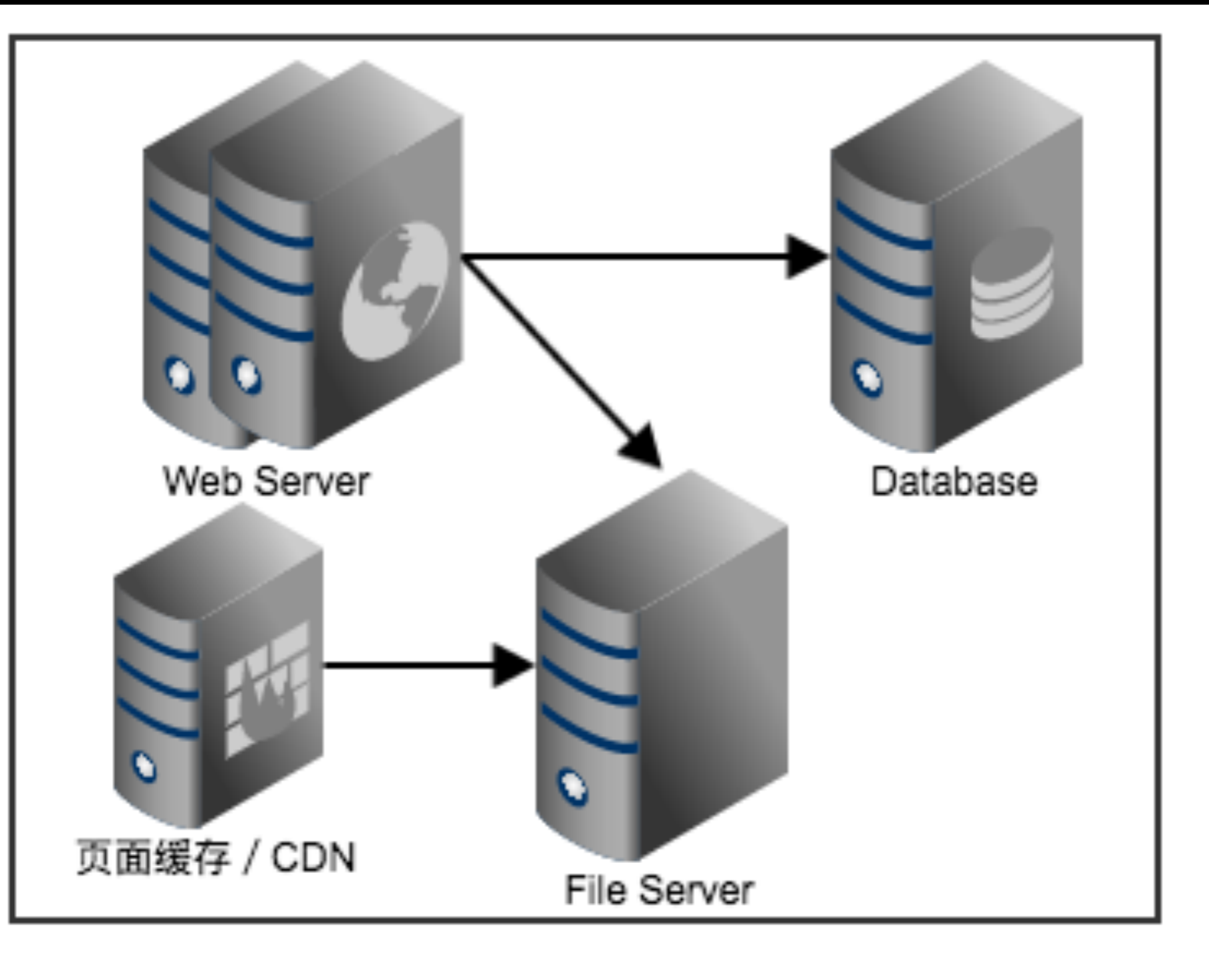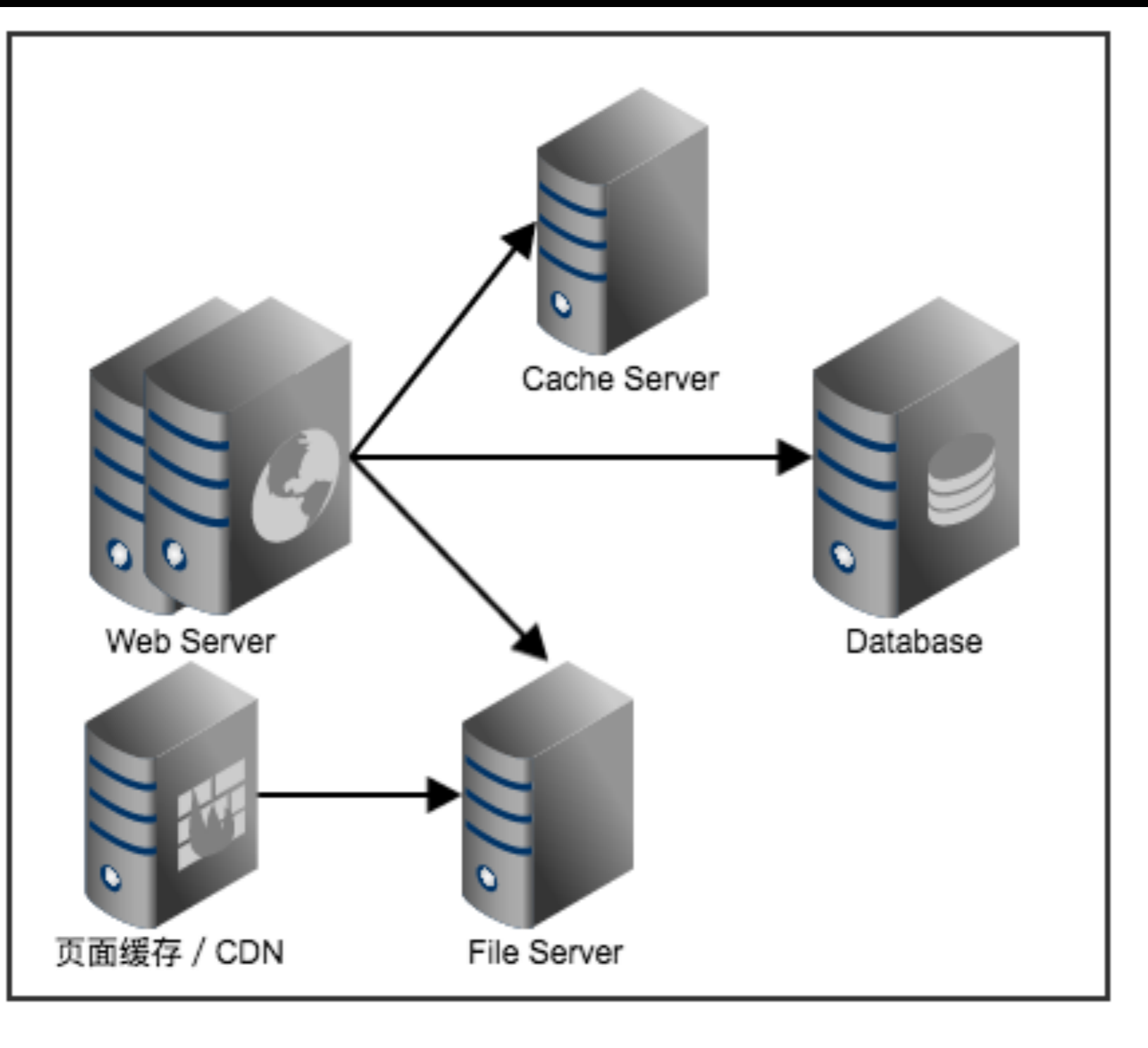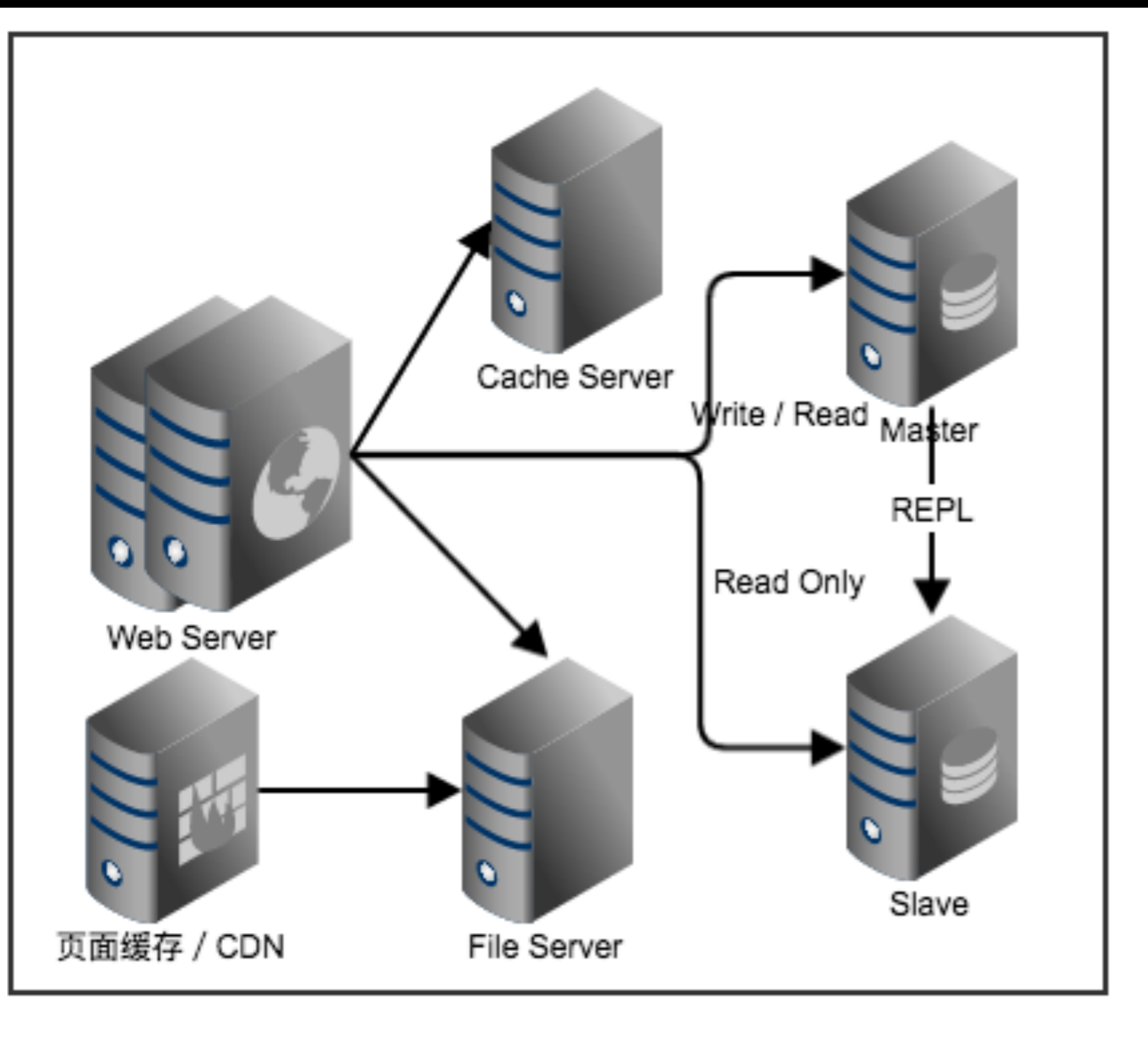
- 业务拆分 / 服务化

- 读写分离 / Sharding

- 异步化 / 大数据

单机

Cloud

Web Server
Database
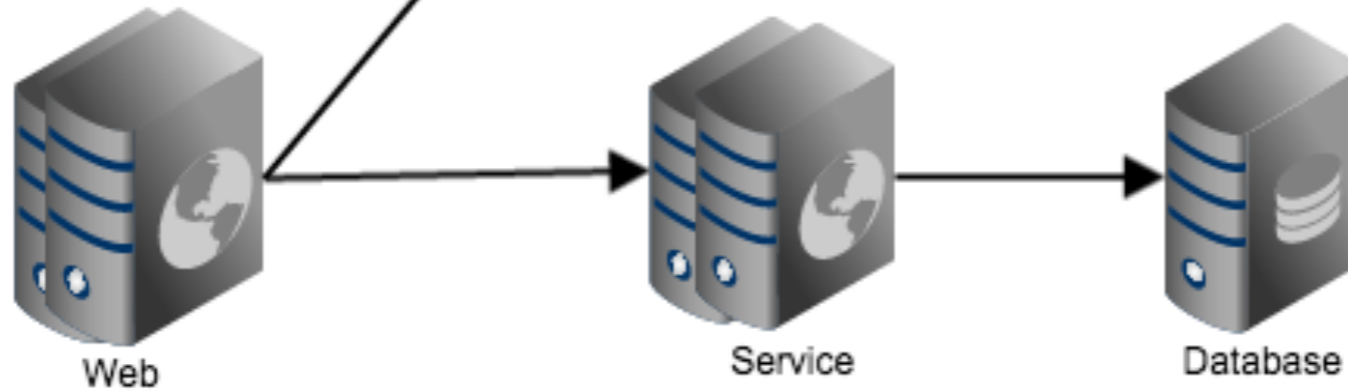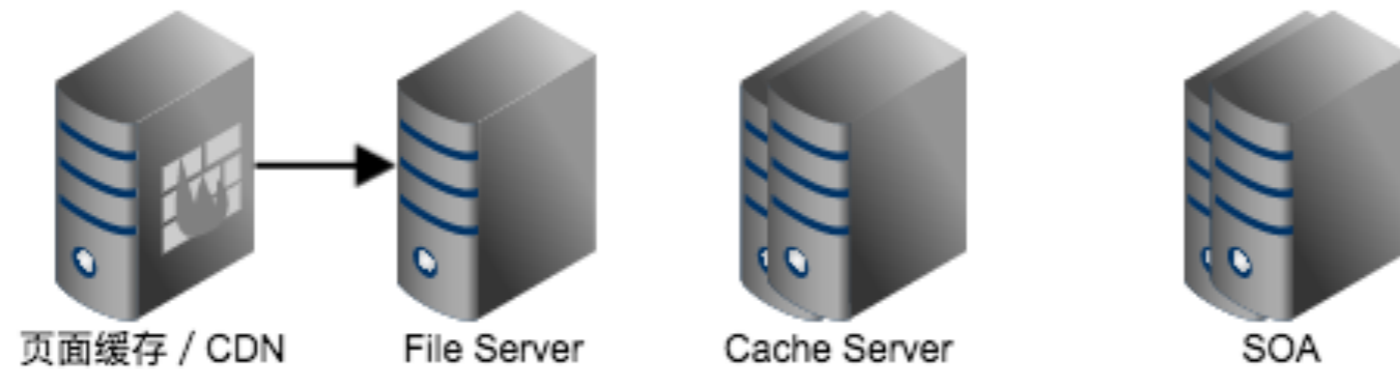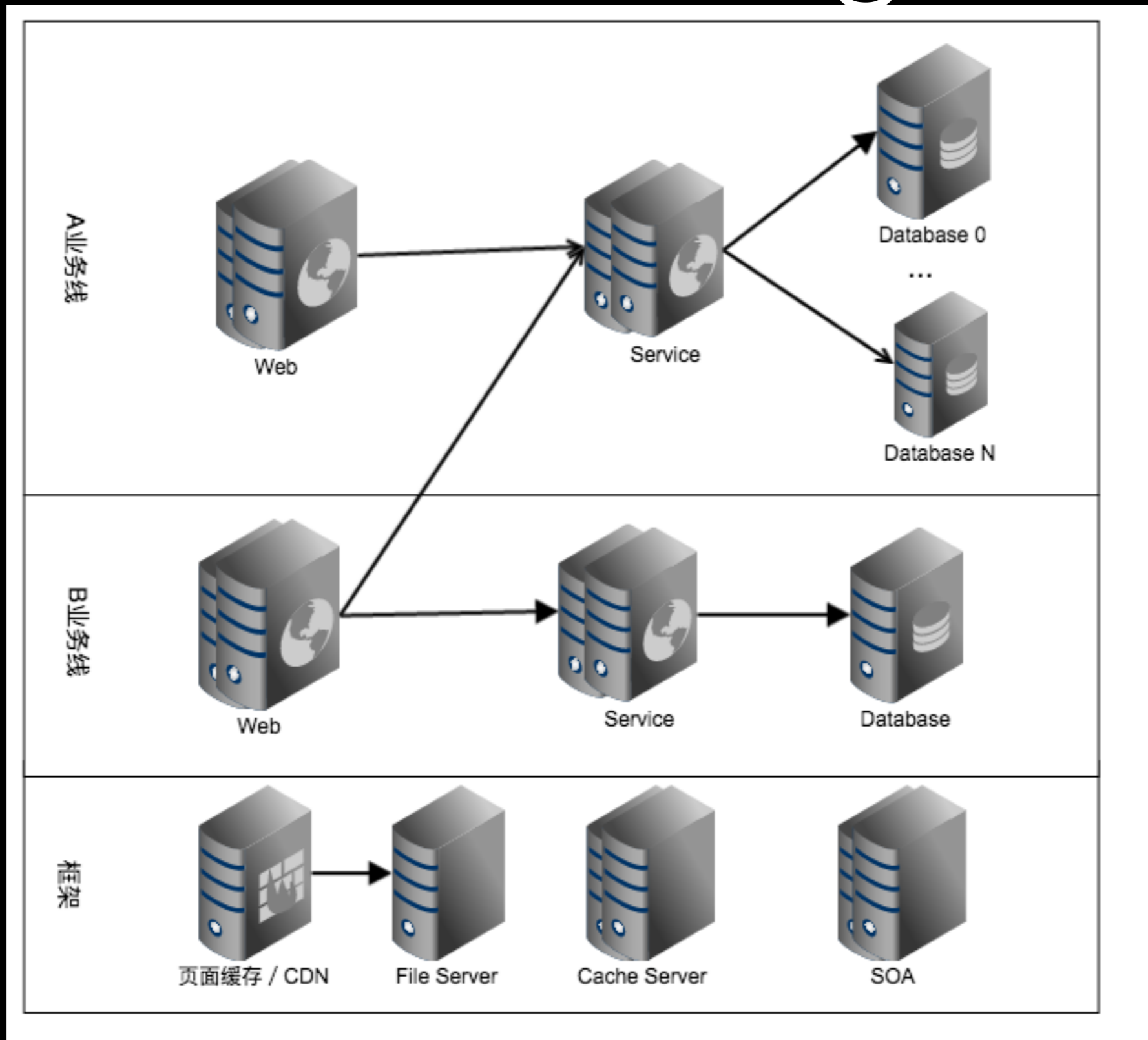File Server

Web/DB分离

页面缓存

缓存服务

读写分离

服务化
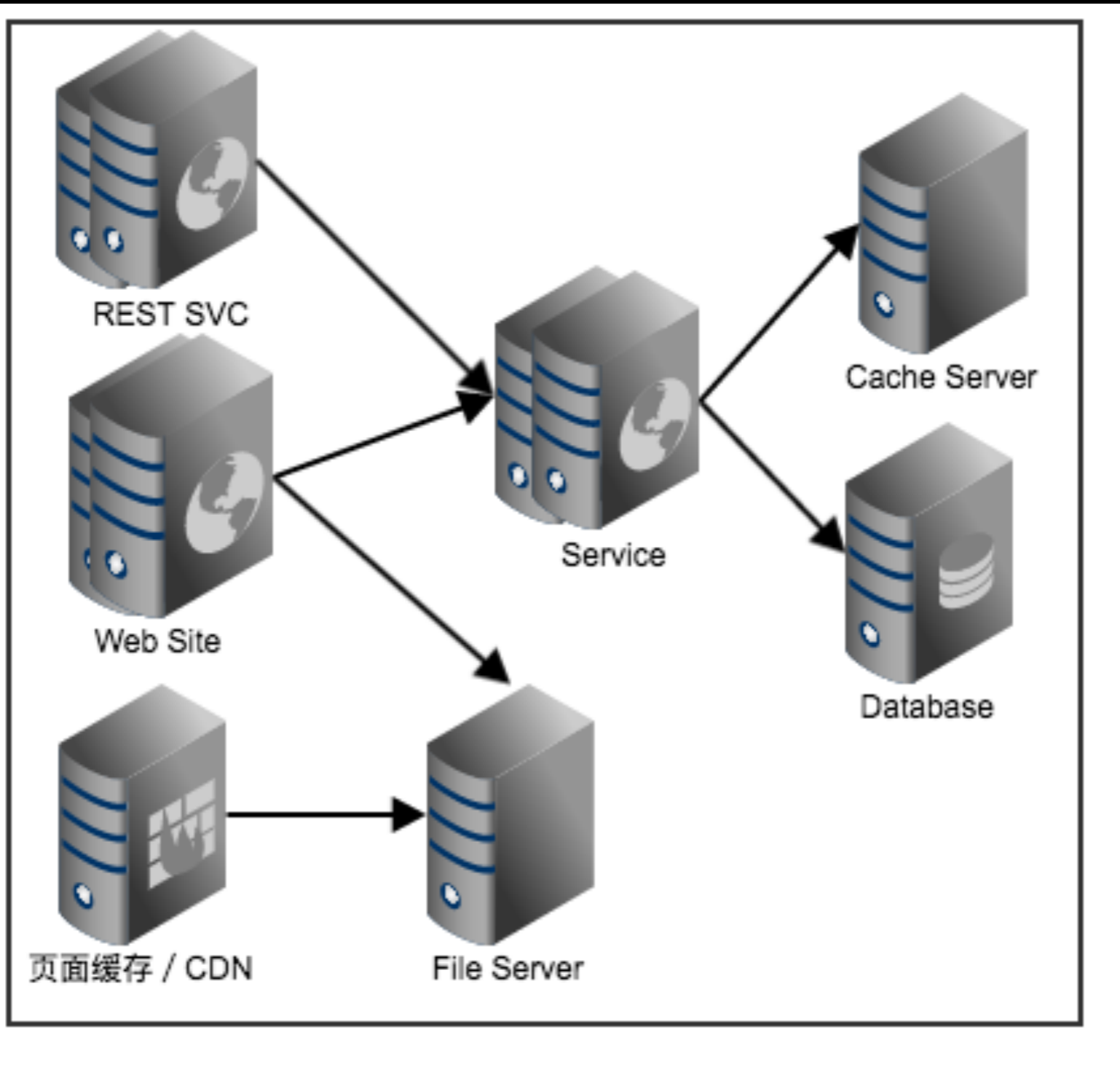
业务拆分
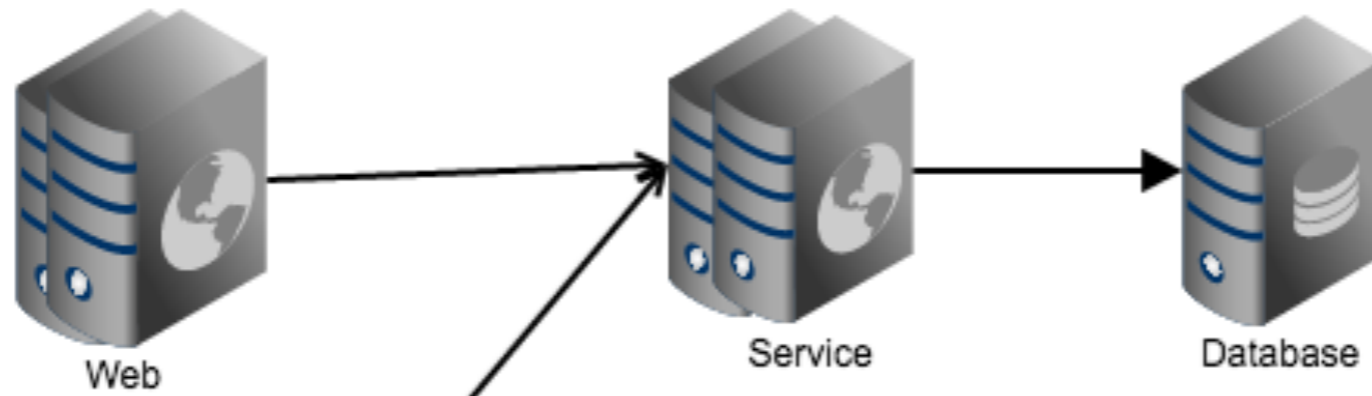
Sharding

补充

- 这里只是思路，并不是所有都是同样途径

- 适当的时候可以考虑Scale Up

- Suitable Solution is better than BEST Solution

References

- git workflow: http://nvie.com/posts/a-successful-git-branching-model/

- git workflow: https://www.atlassian.com/git/tutorials/comparing-workflows

- 网站架构演变：http://greemranqq.iteye.com/blog/1997800

- 多环境Maven配置管理：http://buzheng.org/maven-profile-for-multiple-enviroments.html

- Maven Profile: http://buzheng.org/maven-profile-for-multiple-enviroments.html

- [Maven: The Complete Reference](http://books.sonatype.com/mvnref-book/reference/public-book.html)

- [Maven by Example](http://books.sonatype.com/mvnex-book/reference/public-book.html)