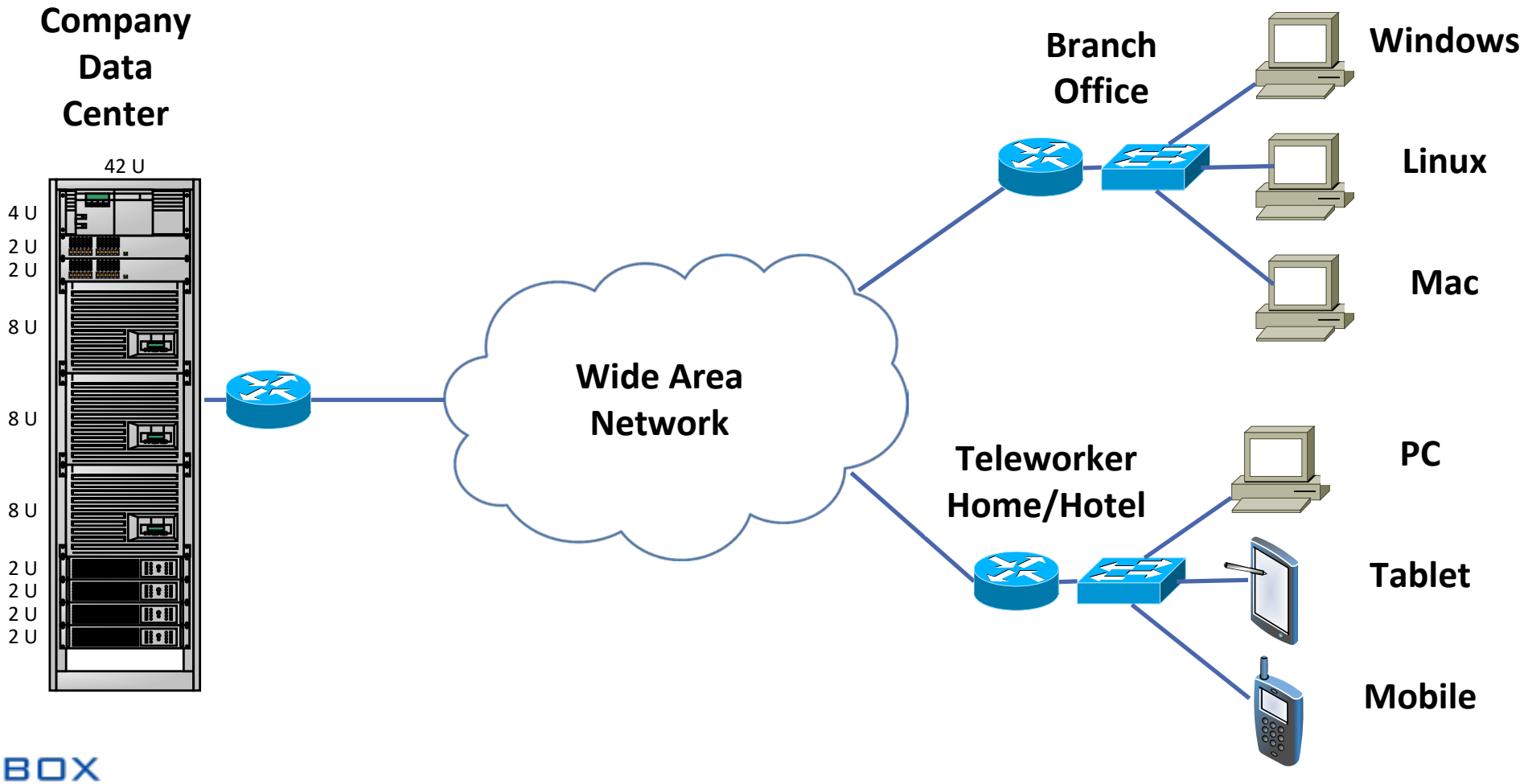
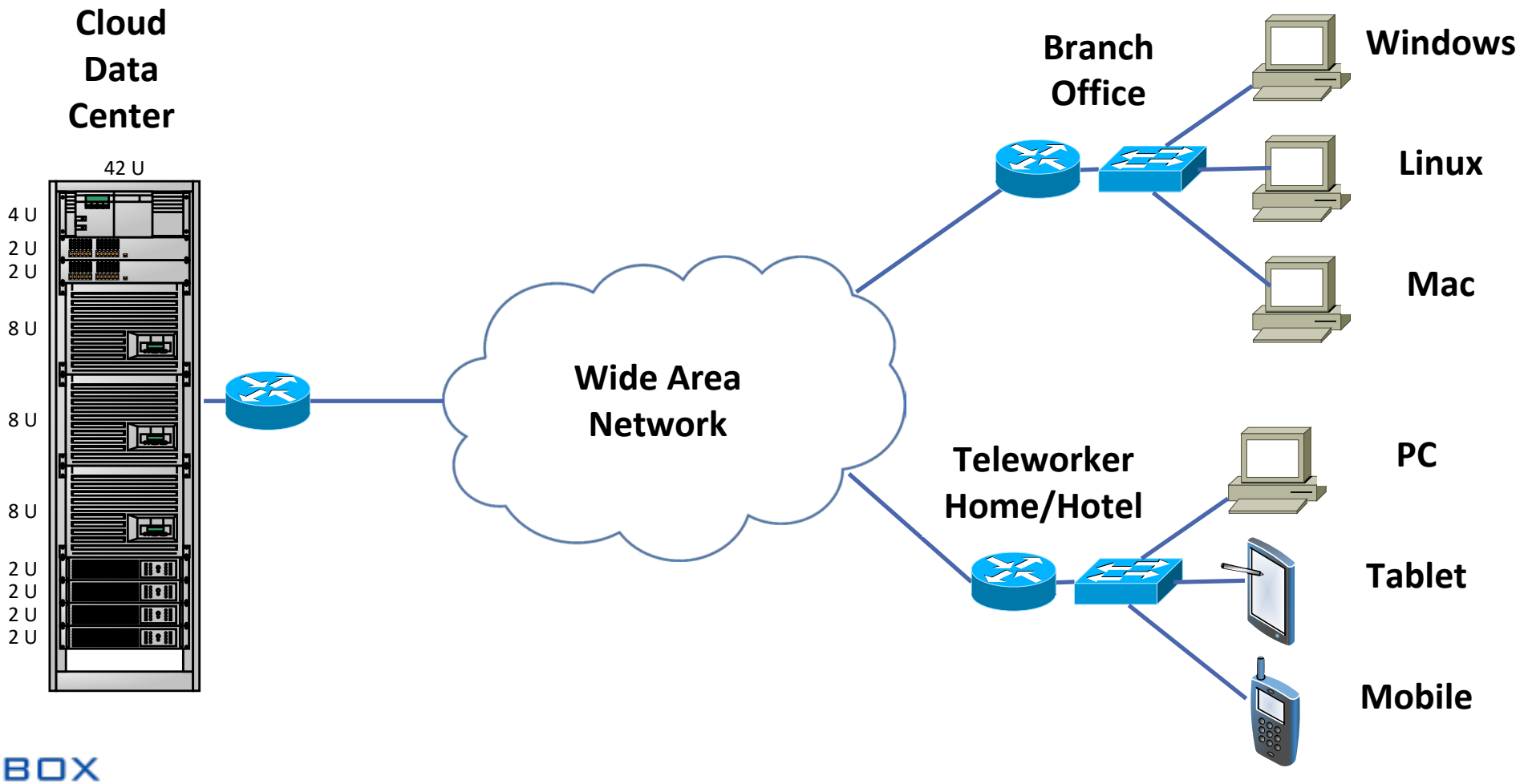
IaaS Design

- Designing an IaaS solution is just like designing an On Premises solution which is accessed from a remote office
- It uses exactly the same data center design principles, it's just that the data center hardware is in the Cloud Provider's facility instead of yours
- The hardware components are the same, the way it's networked is the same, the way it's accessed is the same, and the way it's secured is the same

Traditional On Premise Solution

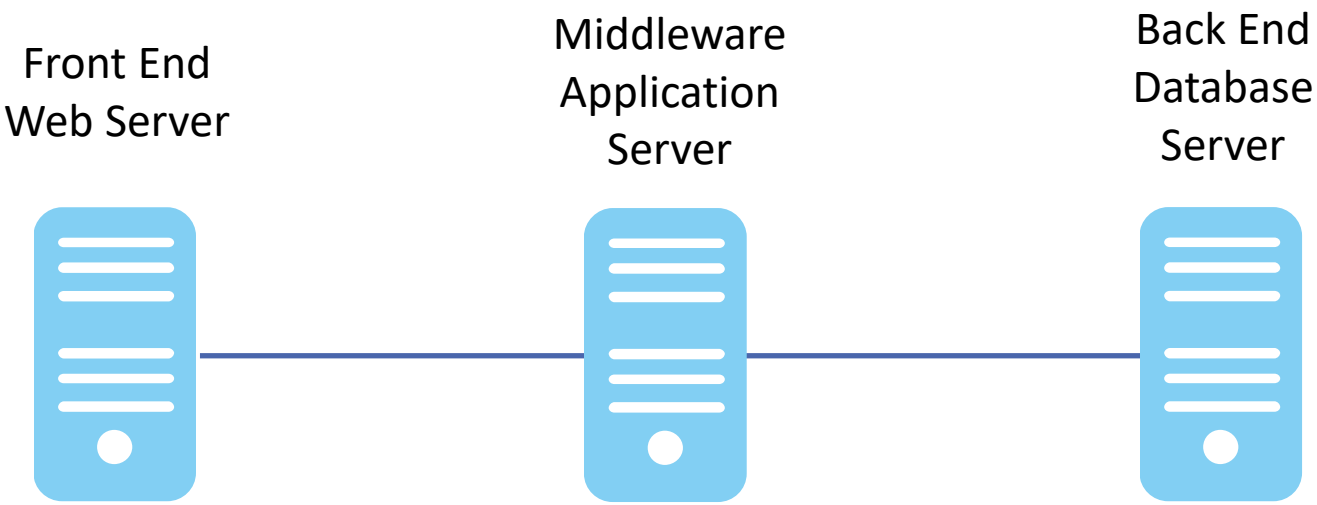


Cloud Solution

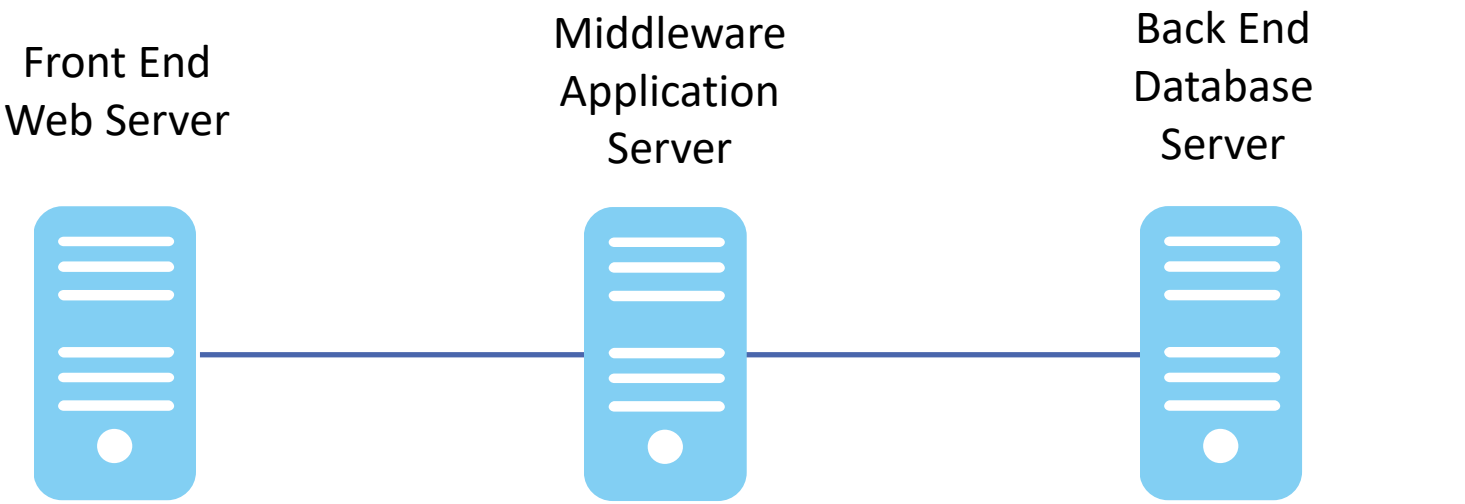


IaaS Design Example

- 3 Tier Ecommerce Application

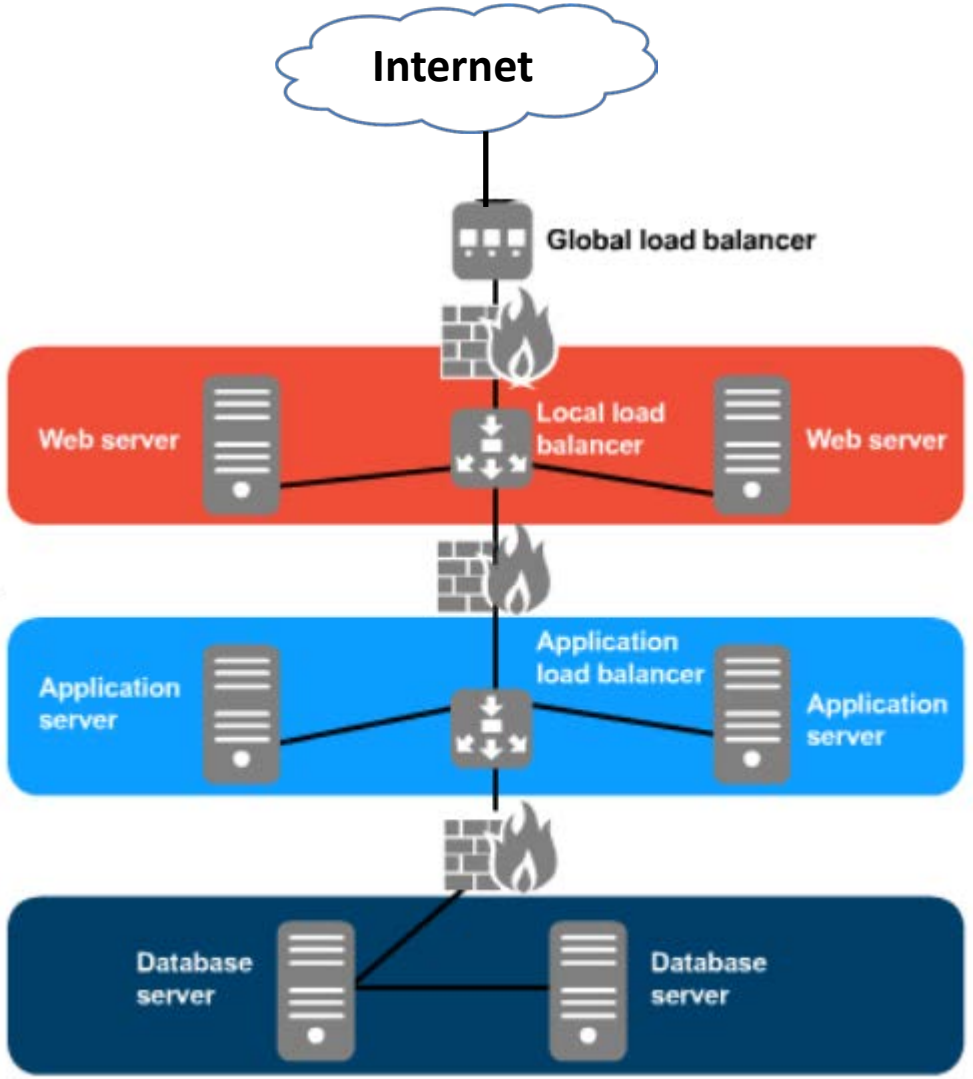


Compute and Storage



Networking

Server Farms can be automatically scaled



Management access over Internet VPN or Direct Connection

Backups

- Just as with an On Premise solution, you need to consider backups
- The Cloud Provider will not automatically back up your data
- The Cloud Provider's data center is a hardened facility with no single points of failure, but this does not protect your data against regional disasters or data corruption
- You have network connectivity to the cloud facility, so you can back up back to your office using your existing backup solution
- You can also back up to the Cloud Provider's storage
- Data should always be backed up to an offsite location

Disaster Recovery

- If the data center is lost, you will be able to recover to a different location from backup
- In this case, you will lose all new data since the last backup was taken (Recovery Point Objective)
- It could take a significant amount of time to deploy the infrastructure in the new location and restore the data (Recovery Time Objective)
- You may want to provision a Disaster Recovery solution to reduce the RPO and RTO

Disaster Recovery

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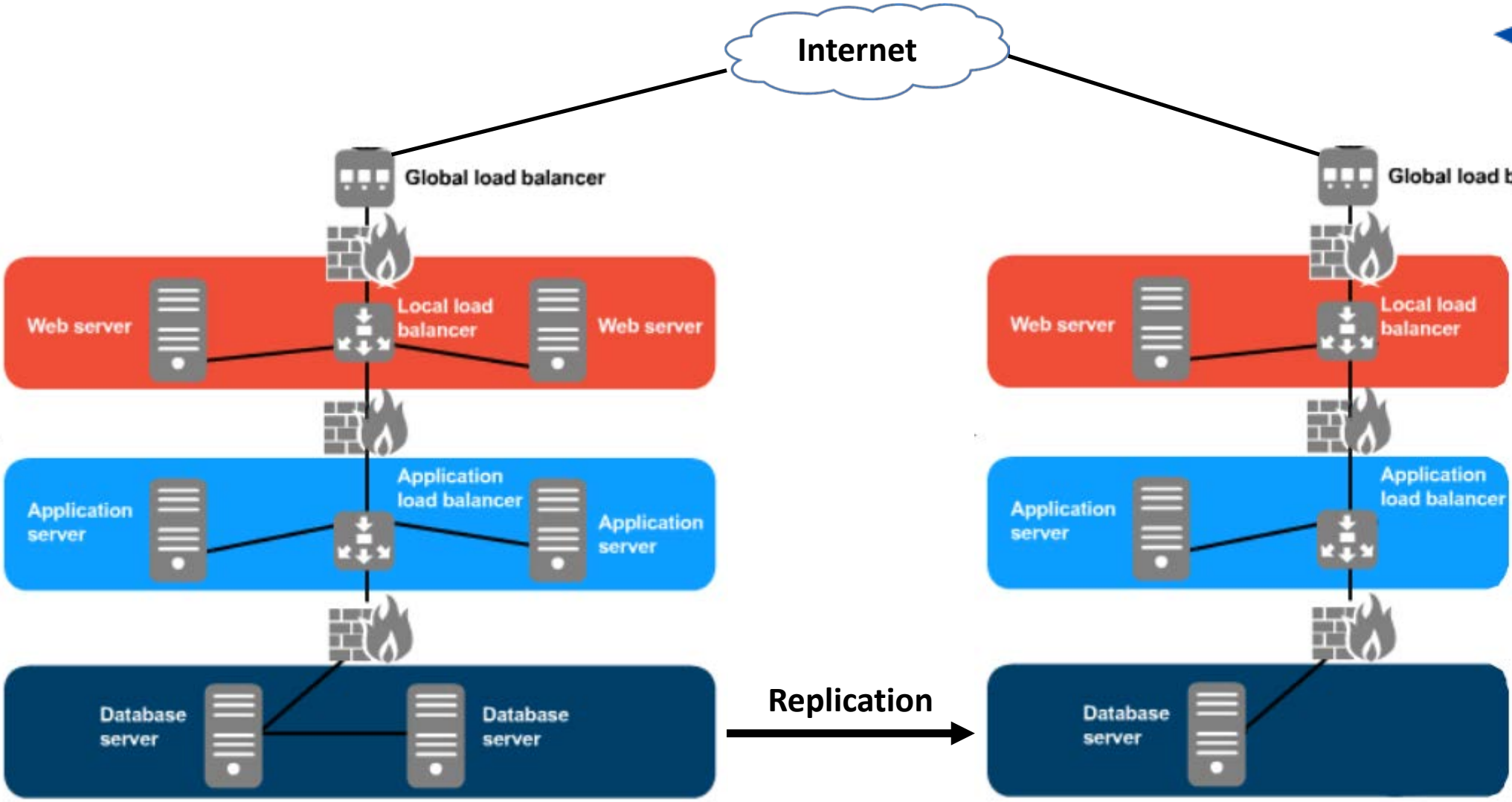

Minimal infrastructure deployed in DR site

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