

# What to do with failed requests



strategies for handling failed requests

cancel

retry

failover

fallback

# What to do with failed requests

## cancel

report the exception and cancel the operation

useful when the failure is not transient

e.g. request authentication has failed

## retry

perform the failed operation again

useful when the failure is transient

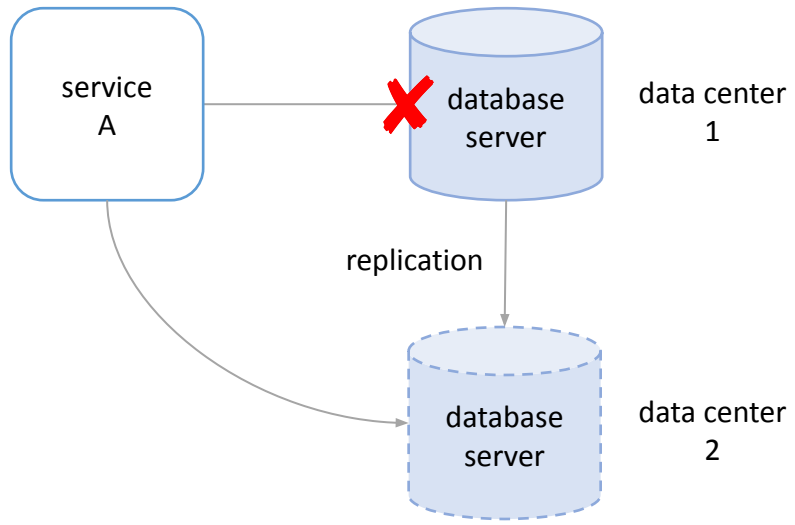
e.g. connection timeout due to a network hiccup

# What to do with failed requests

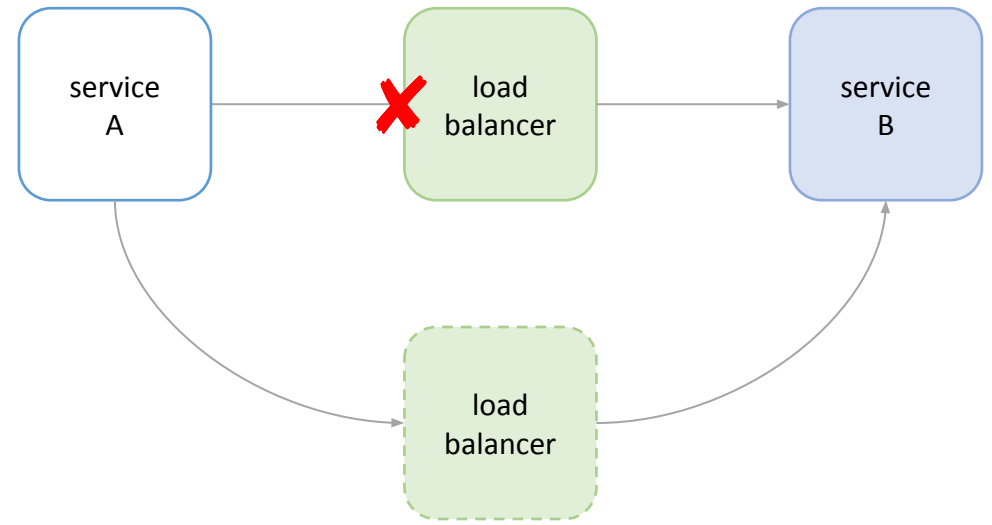
## failover

switch to a redundant or standby system of the same type

### databases



### load balancers

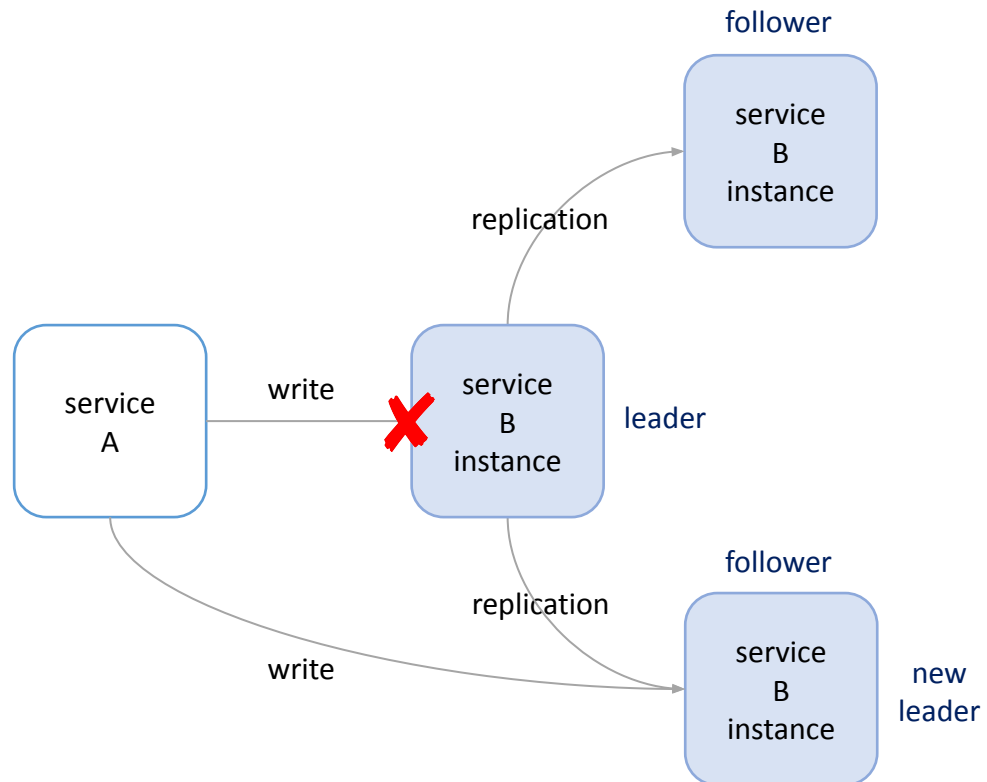


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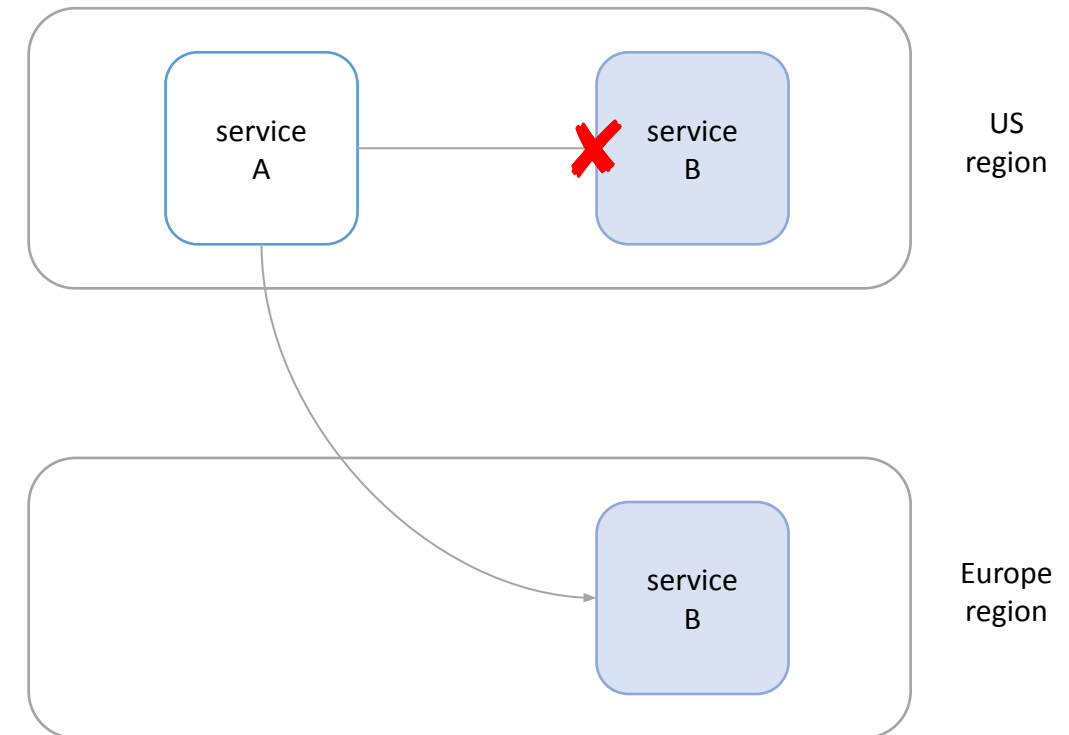
## failover

switch to a redundant or standby system of the same type

### leaders and followers



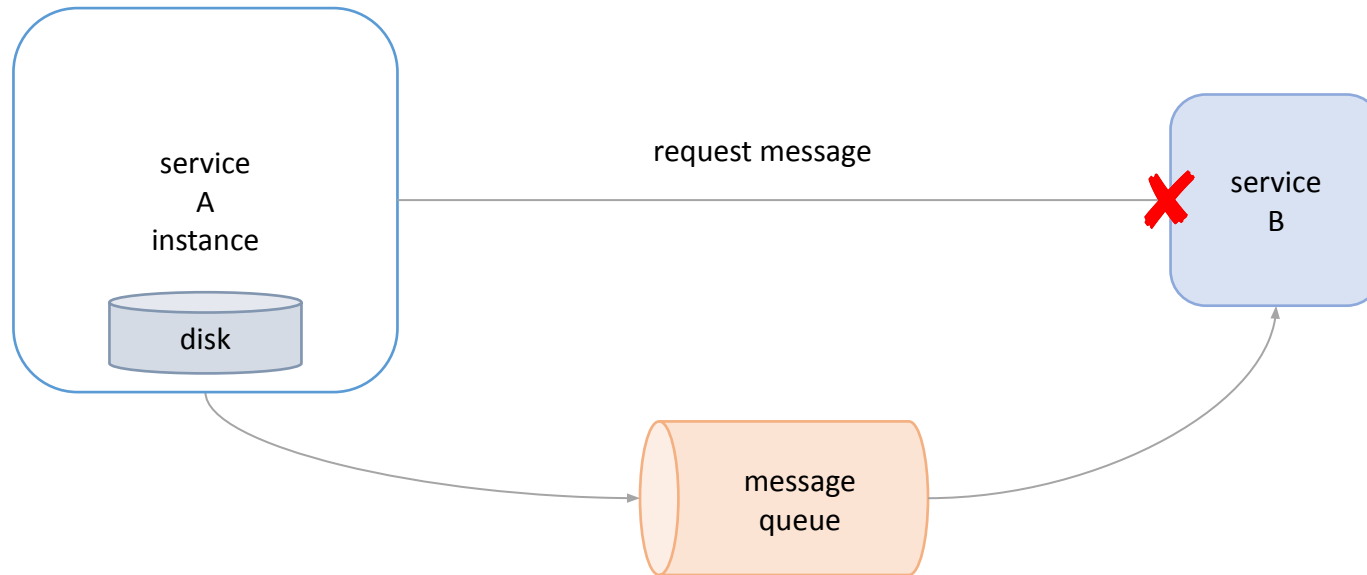
### microservices



# What to do with failed requests

## fallback

switch to an alternative system (of a different type)



- increases reliability
- need to implement and maintain one more solution
- can be hard to test
- may not be ready to handle the load from the main system