

INTRODUCTION TO DOCKER



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Why Docker, Benefit of Container

AGENDA



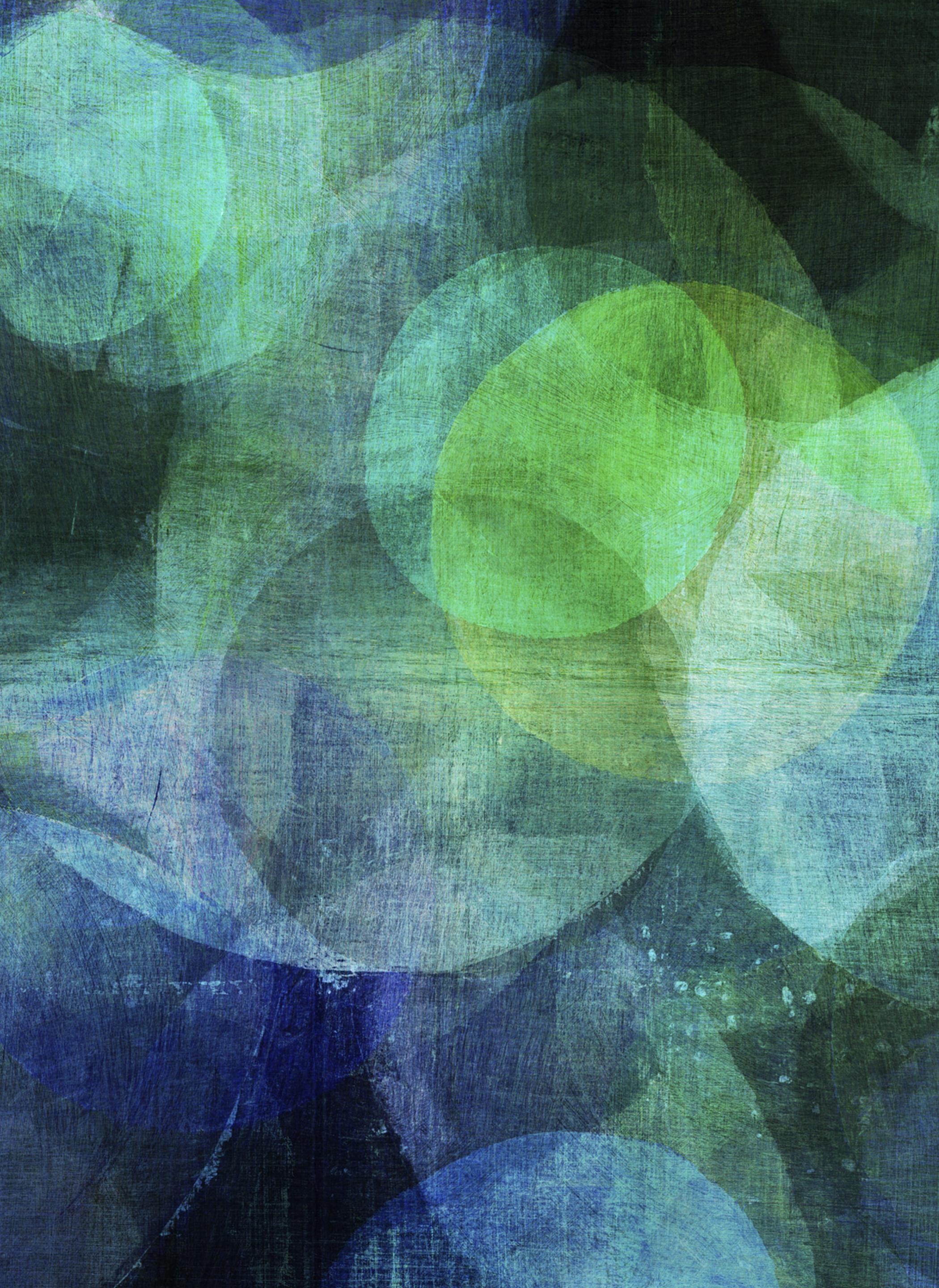
AGENDA

– Why Docker ?



AGENDA

- Why Docker ?
- Docker vs Virtual Machine



AGENDA

- Why Docker ?
- Docker vs Virtual Machine
- Benefit of Container



WHY DOCKER ?

CONTAINER ?
WHY DOCKER ?

OLD STORY ABOUT DEVELOPER AND OPERATION - PHYSICAL SERVER ERA

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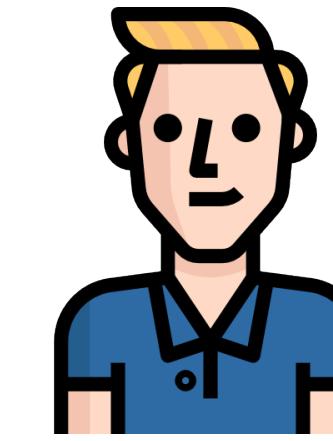


Developer

OLD STORY ABOUT DEVELOPER AND OPERATION - PHYSICAL SERVER ERA

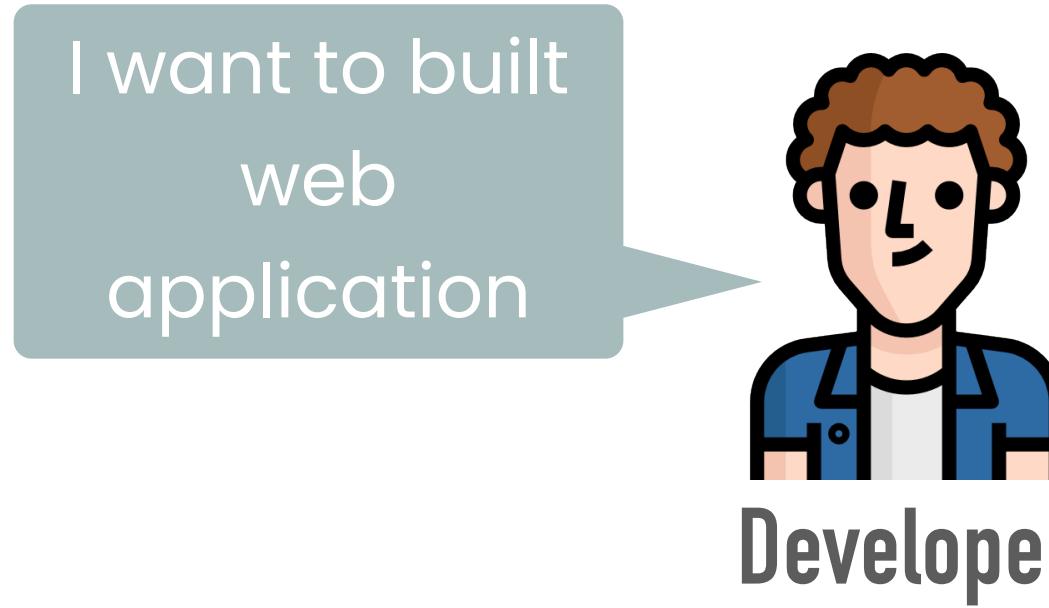


Developer

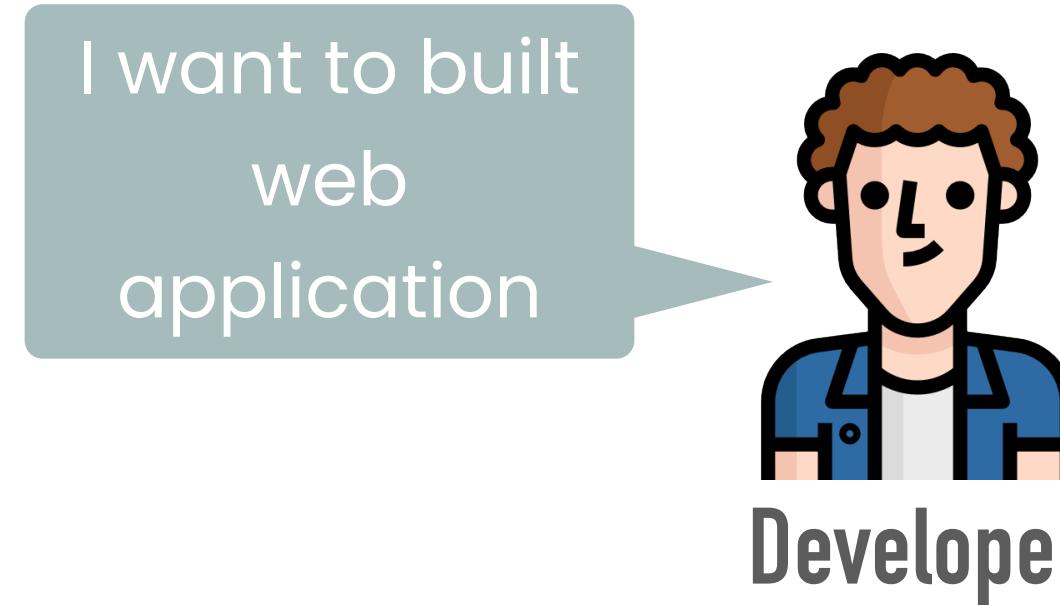


Operation

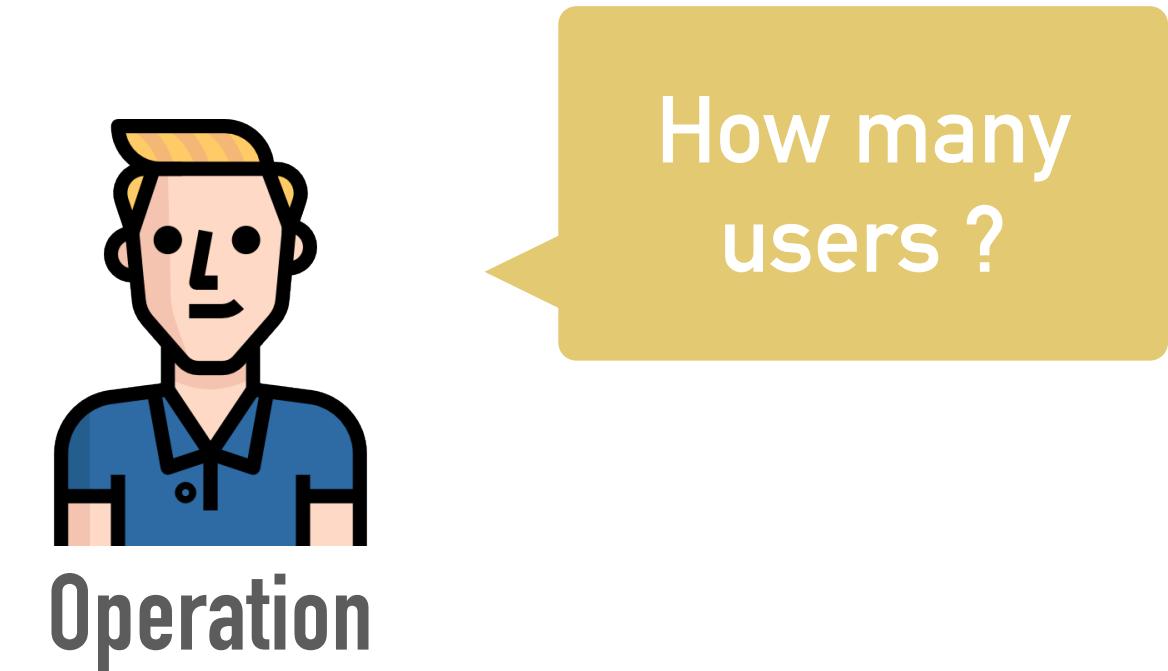
OLD STORY ABOUT DEVELOPER AND OPERATION - PHYSICAL SERVER ERA



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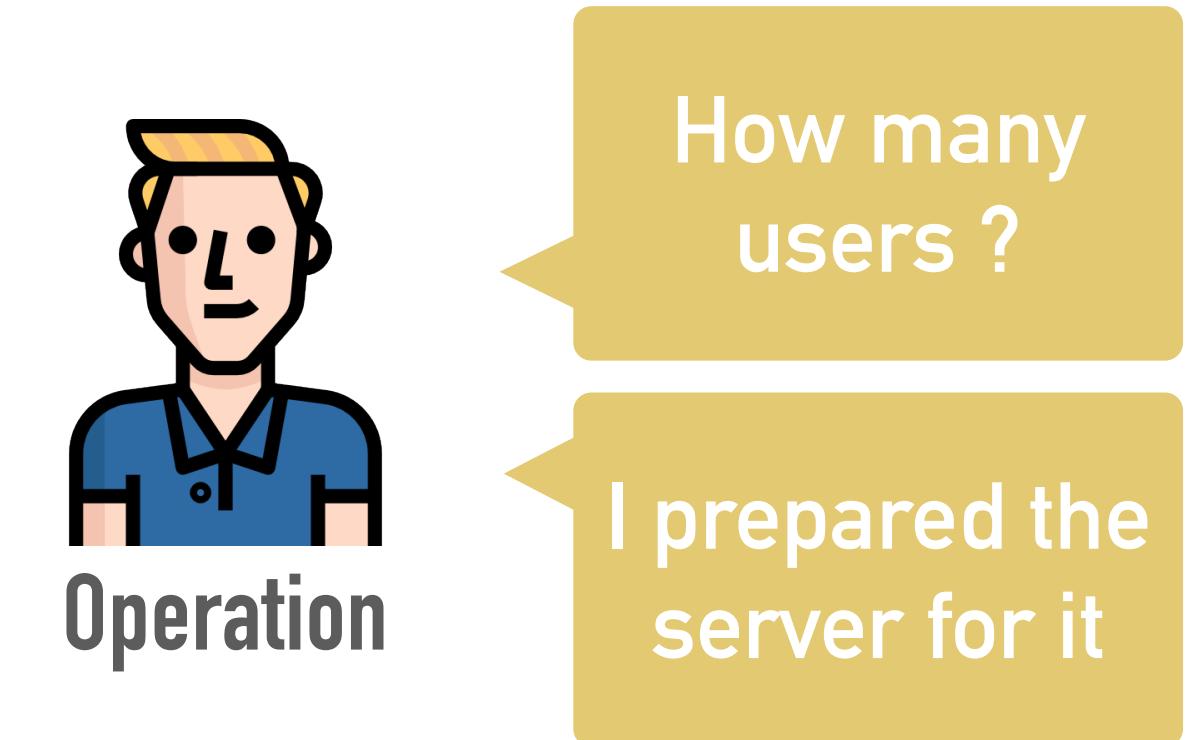
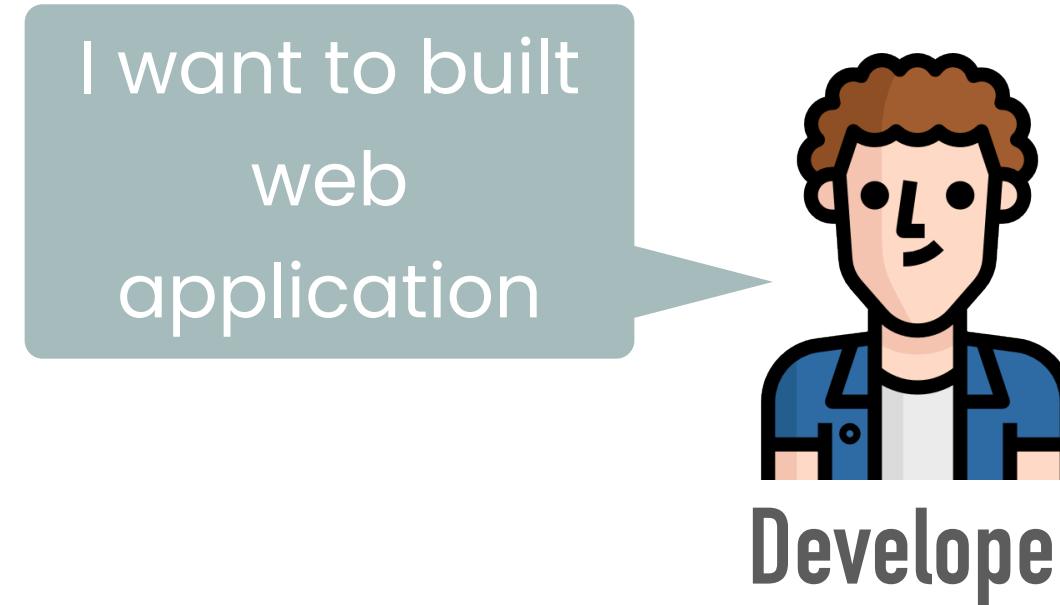


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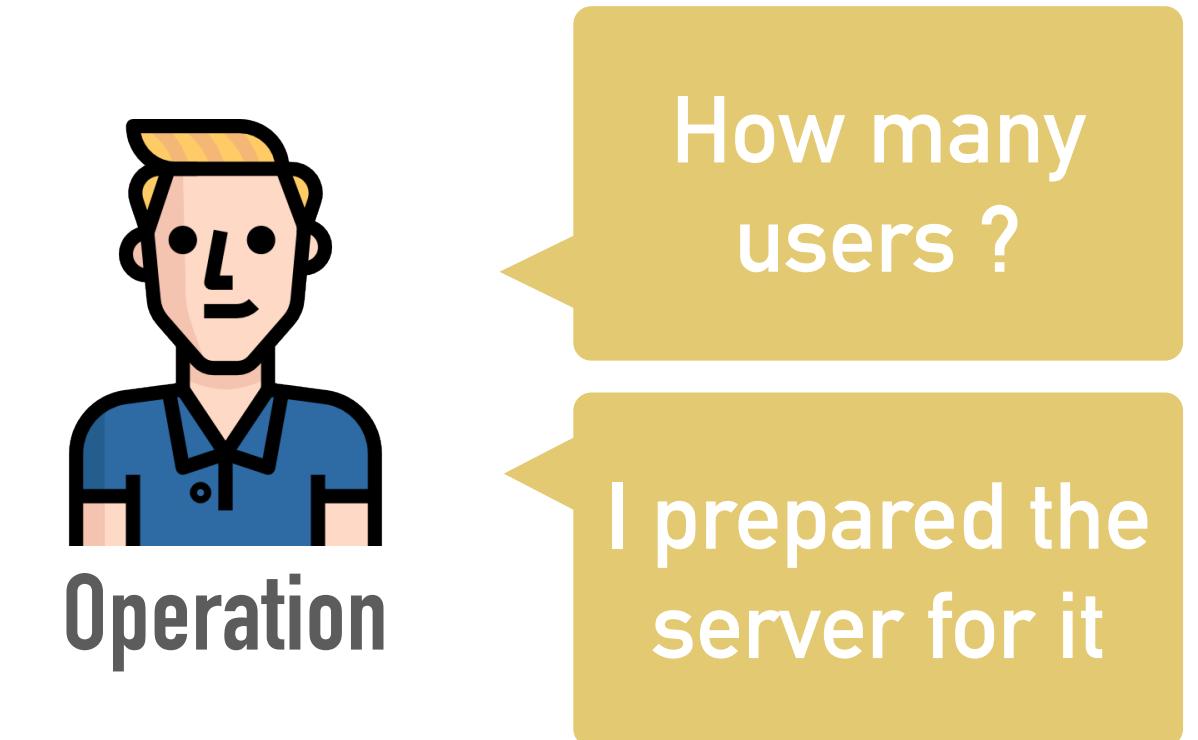
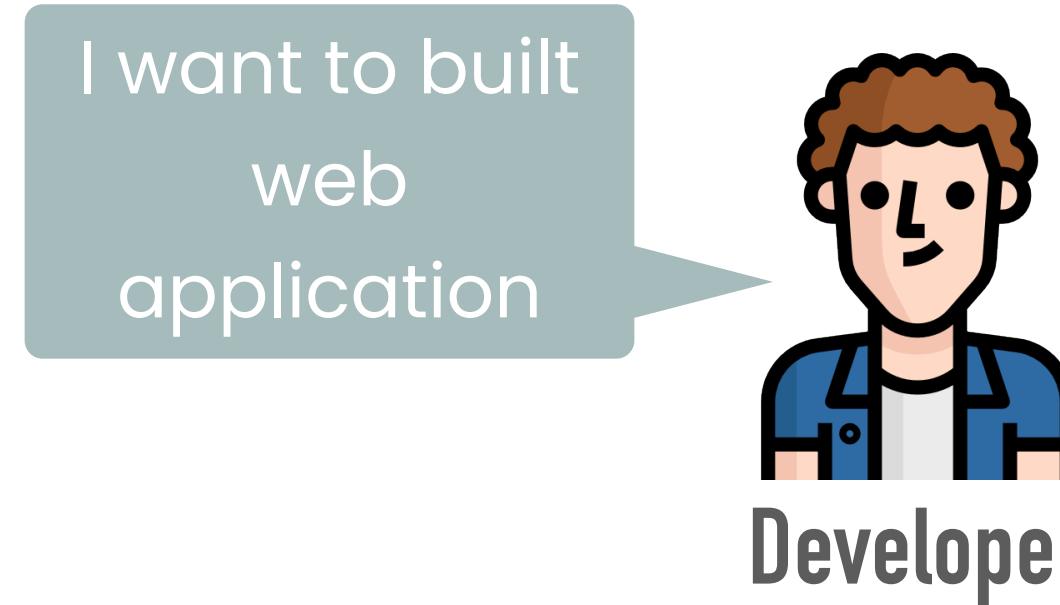


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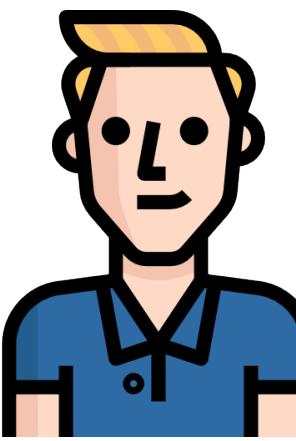


OLD STORY ABOUT DEVELOPER AND OPERATION - PHYSICAL SERVER ERA

I want to built
web
application



Developer



Operation

How many
users ?

I prepared the
server for it

Waiting for
long time



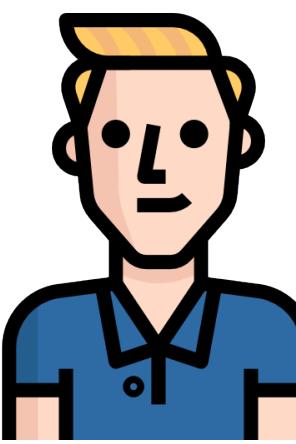
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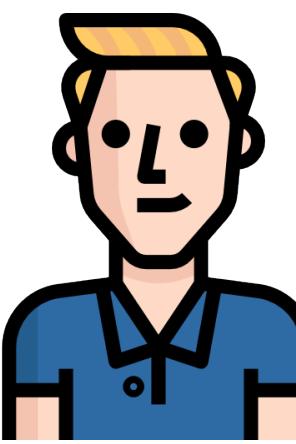
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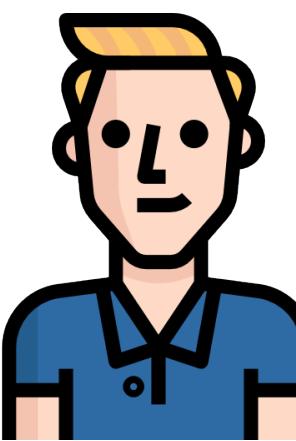
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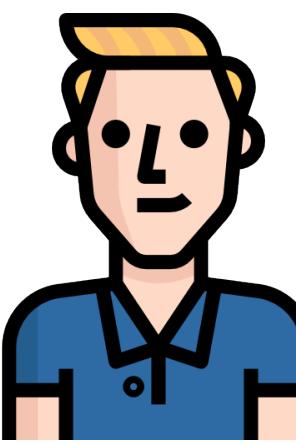
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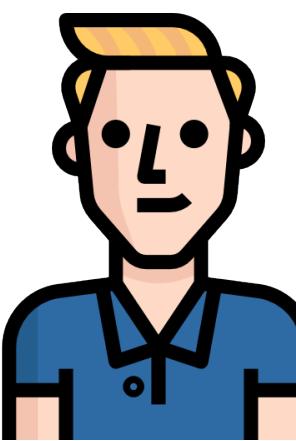
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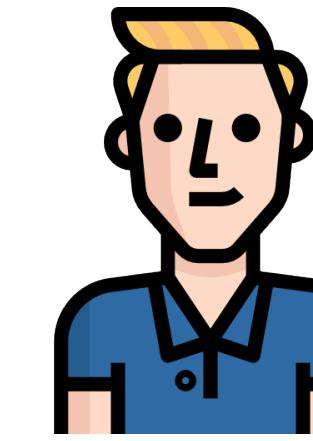
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OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA

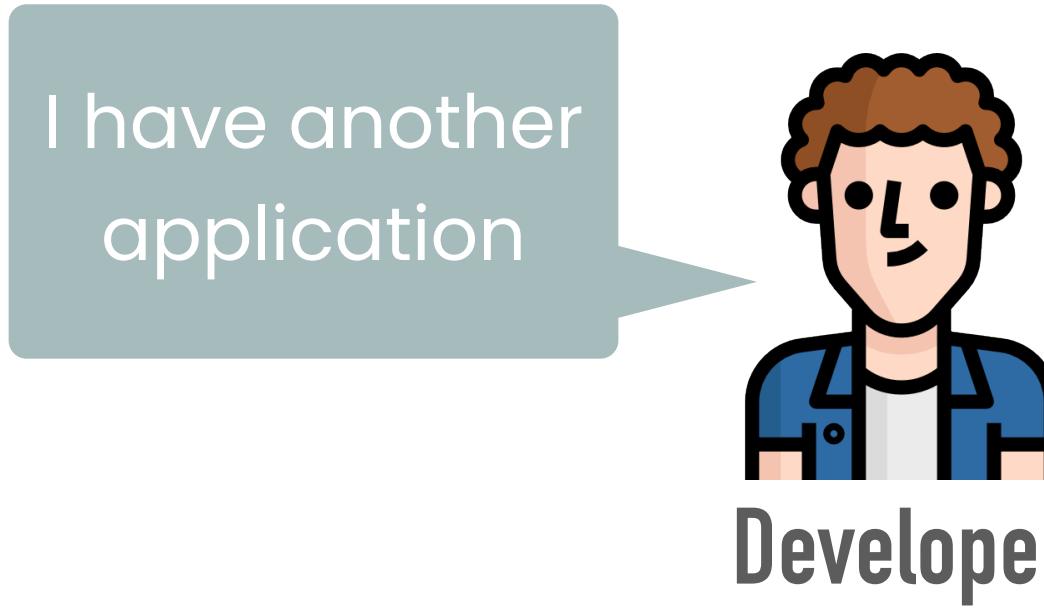


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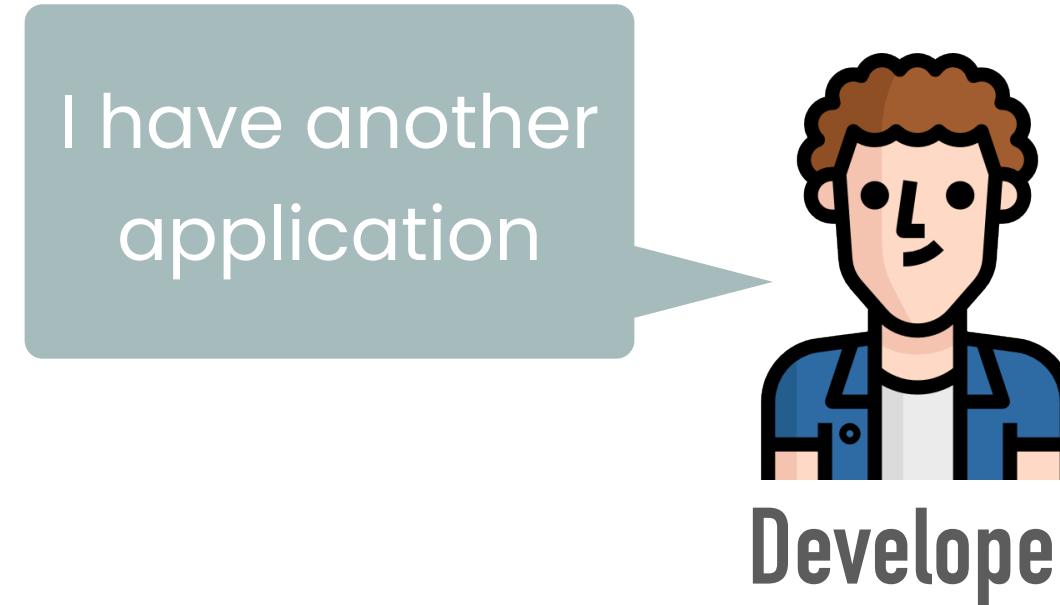


Operation

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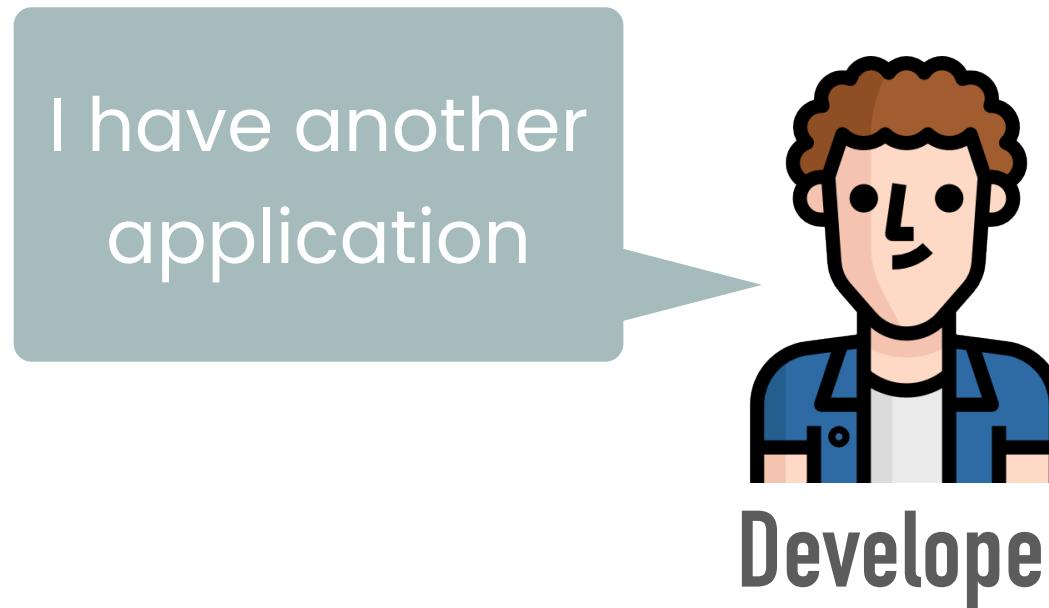


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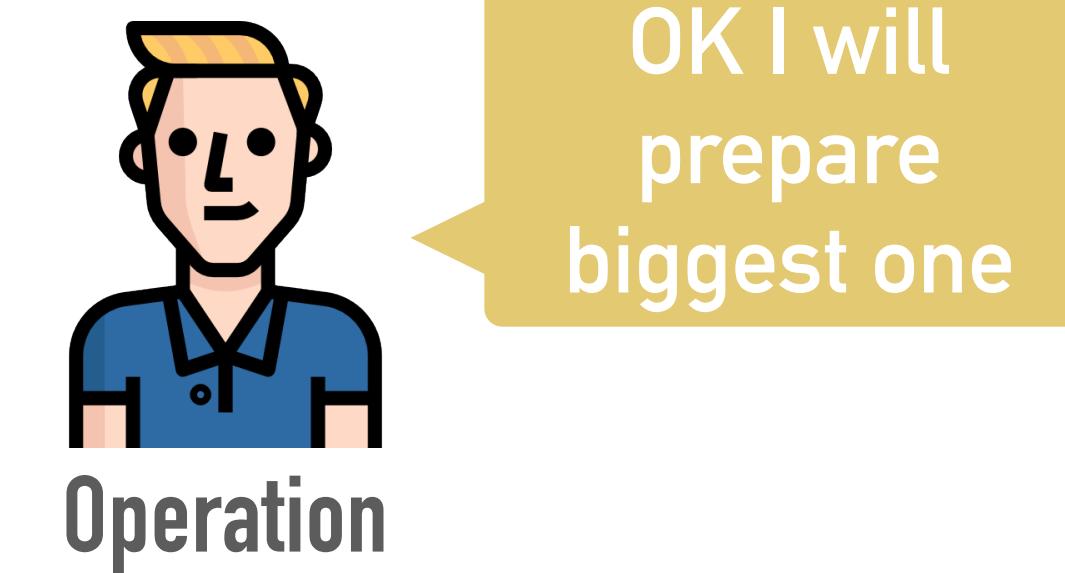


Operation

OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA

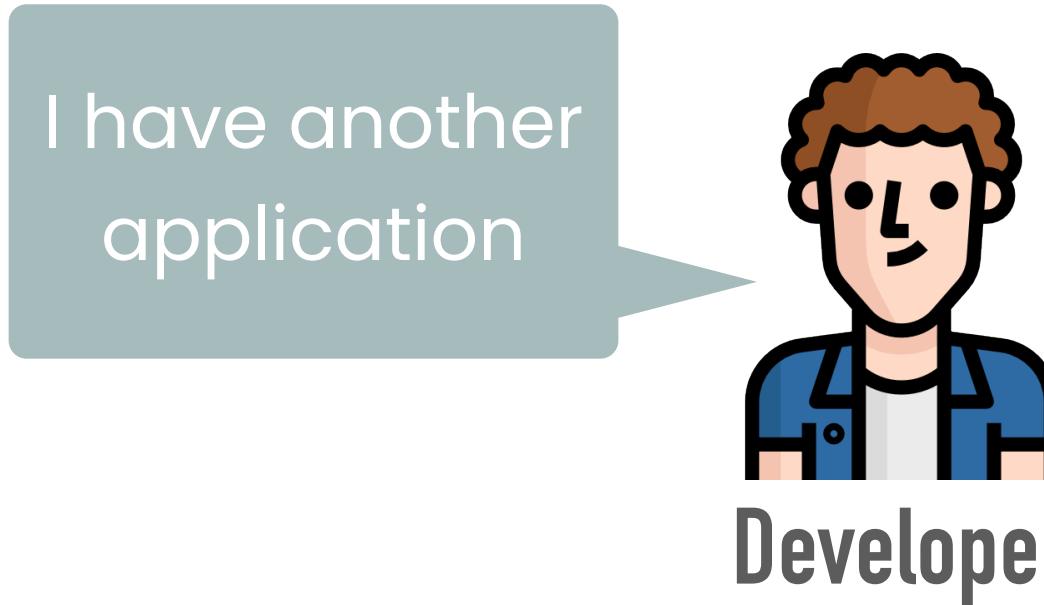


Developer

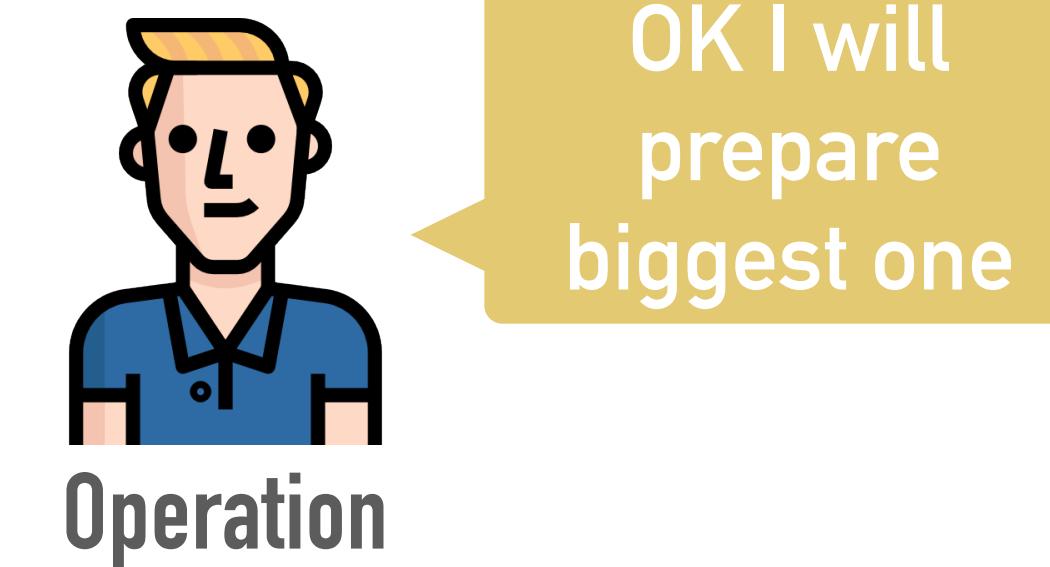


Operation

OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



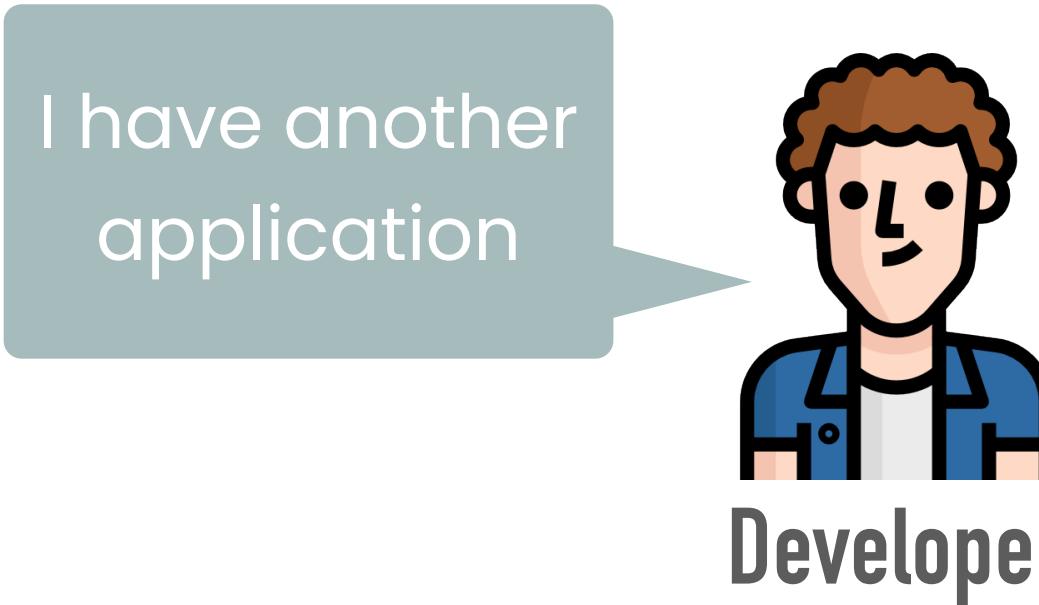
Developer



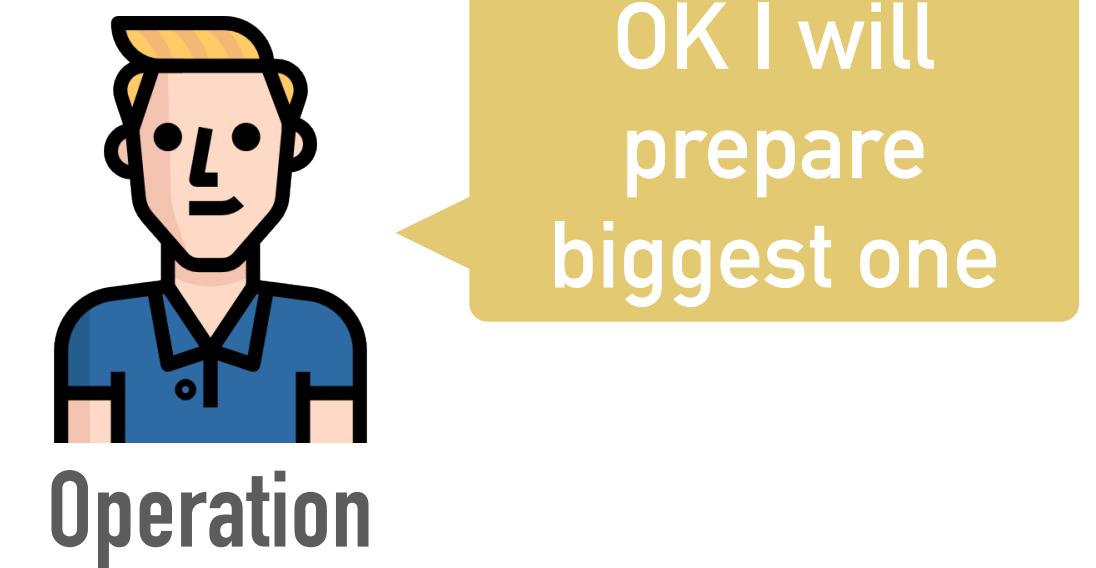
Operation



OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



Developer

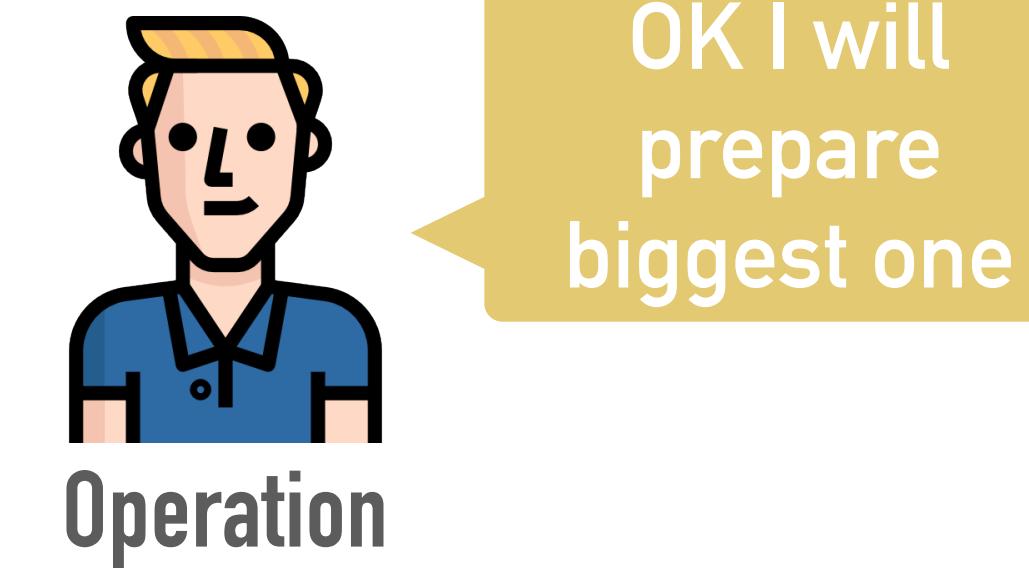
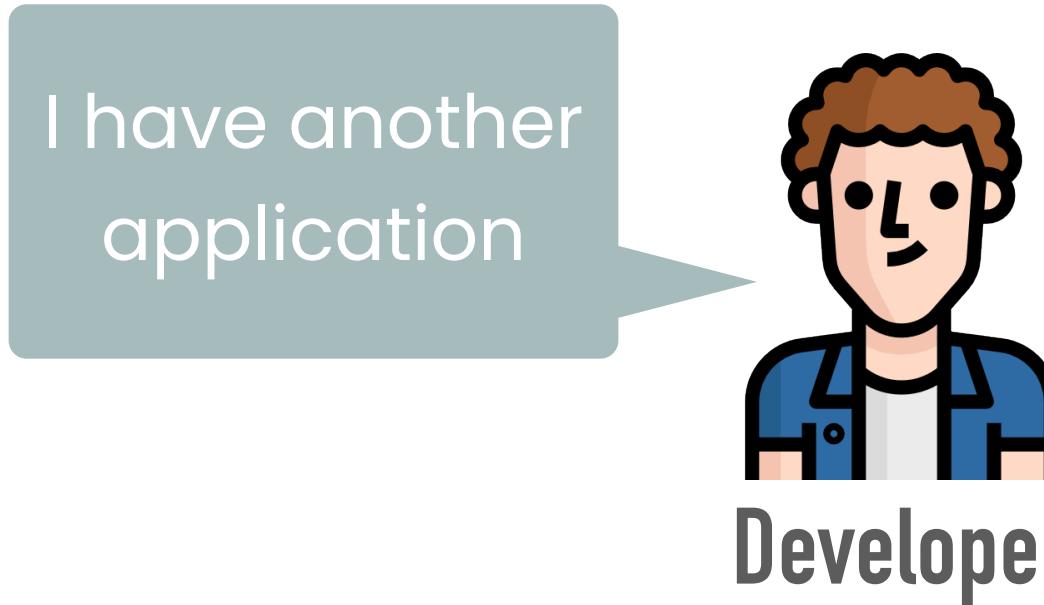


Operation



20% used
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OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



20% used
???

Can we
share ?

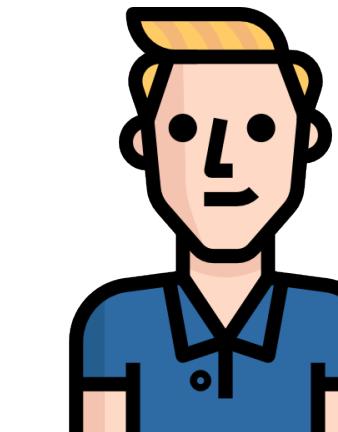
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA

I have another application

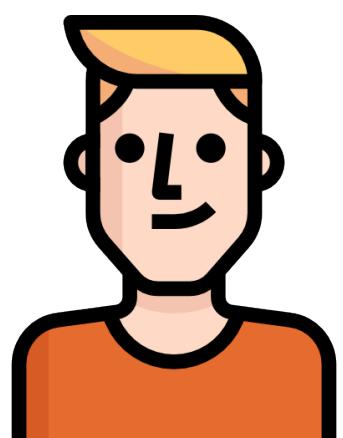


Developer

OK I will prepare biggest one



Operation



20% used
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Can we share ?

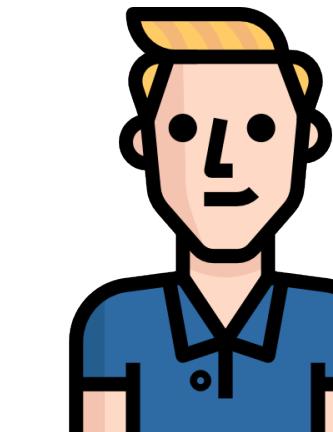
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA

I have another application



Developer

OK I will prepare biggest one



Operation

I need Java 1.8 + Oracle



20% used ???

Can we share ?

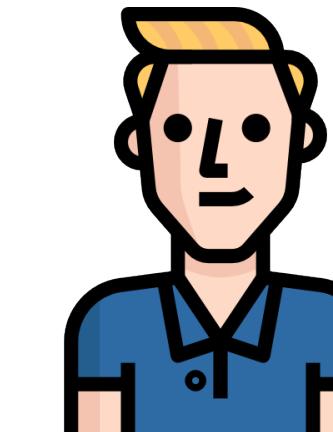
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA

I have another application



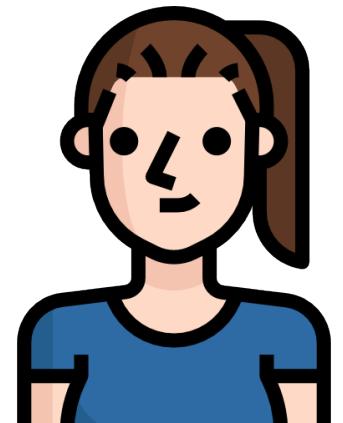
Developer

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Operation

I need Java 1.8 + Oracle

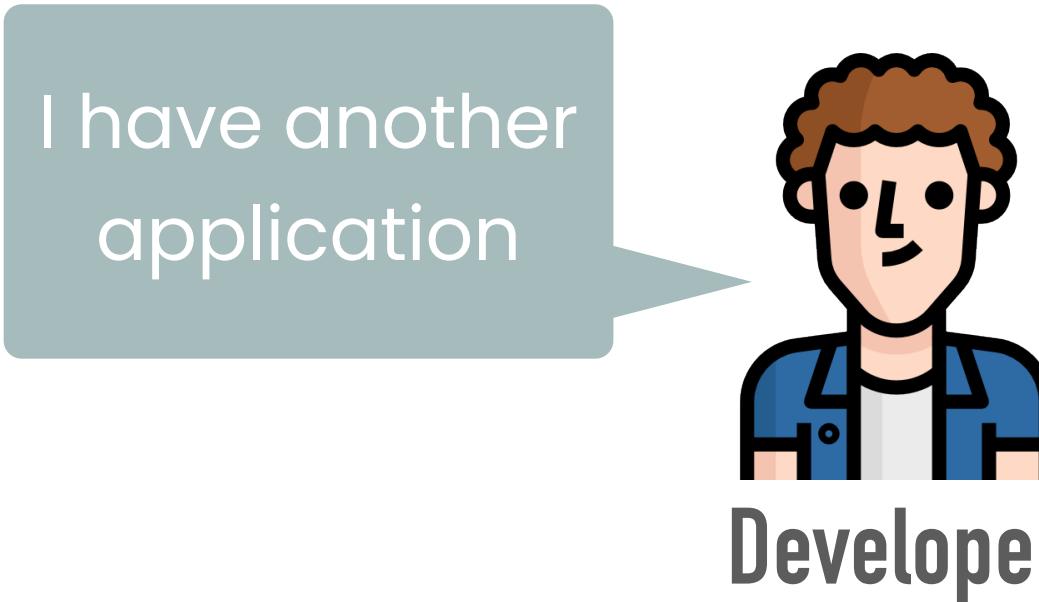


20% used ???

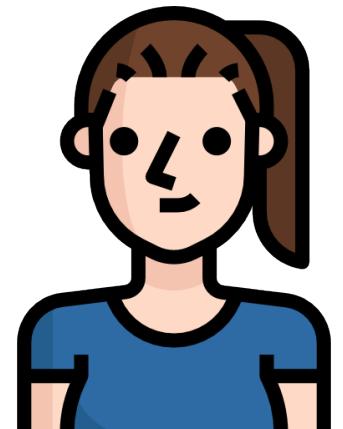
Can we share ?



OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



I need
Java 1.8 +
Oracle



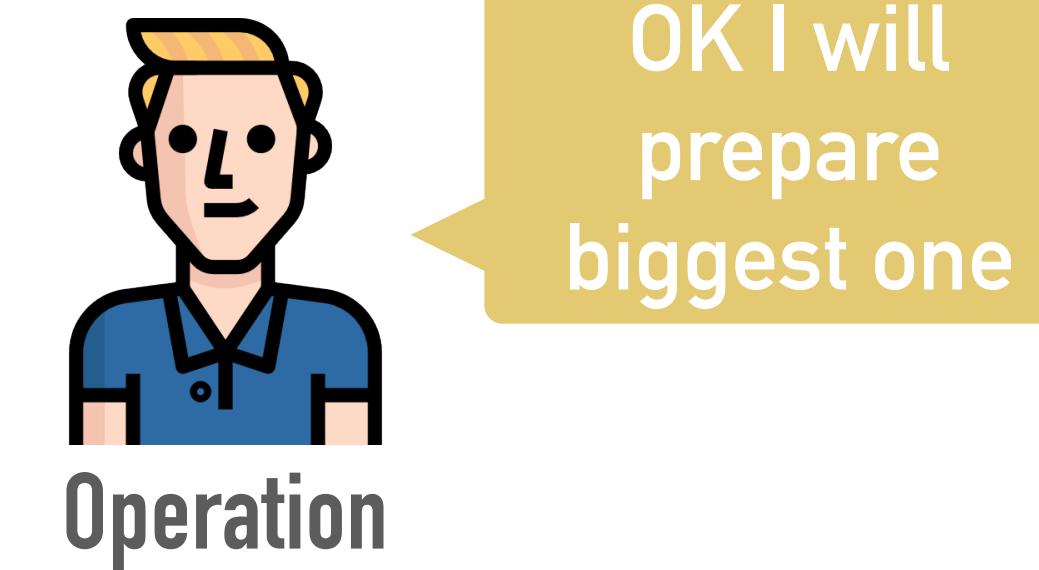
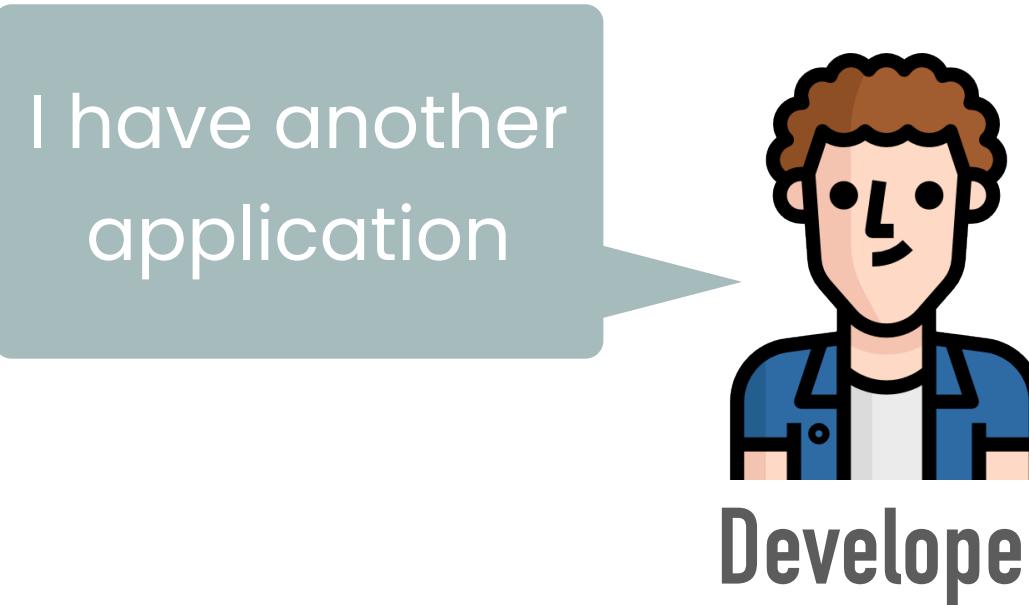
I need
NodeJs 6.0 +
Java 11 + MySQL



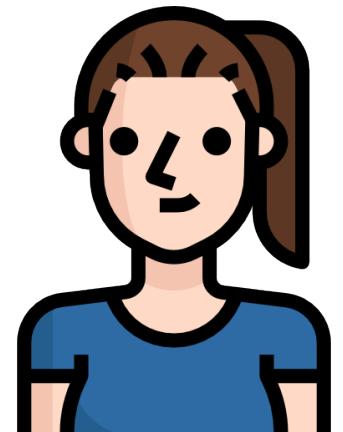
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???

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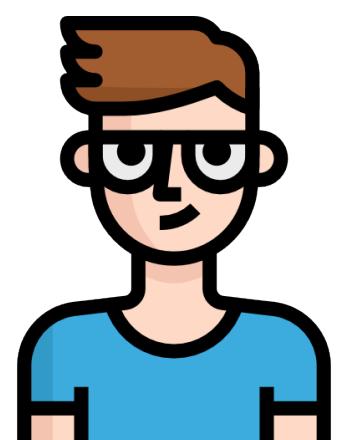
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



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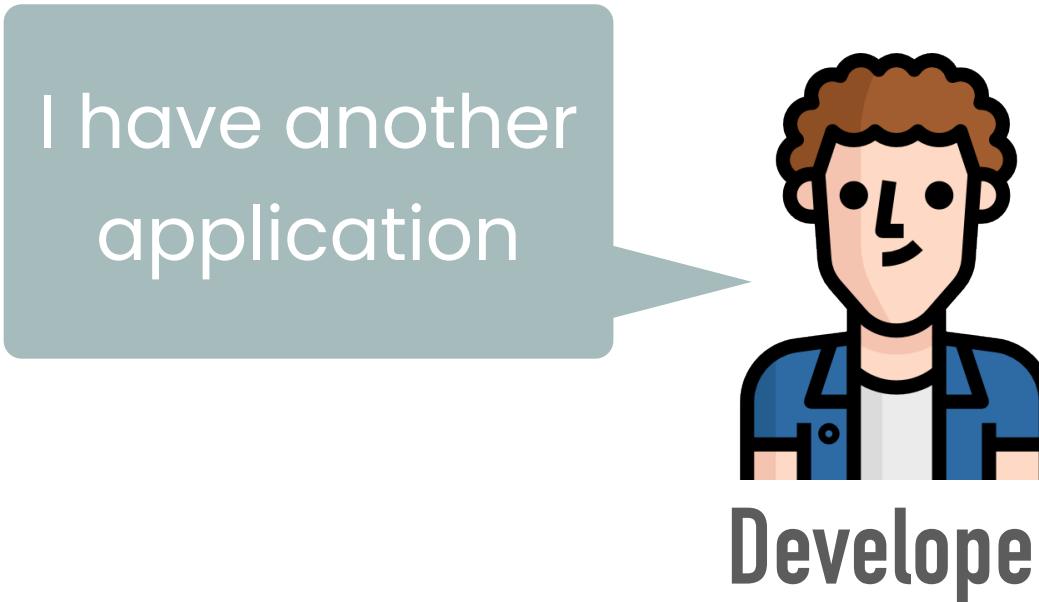
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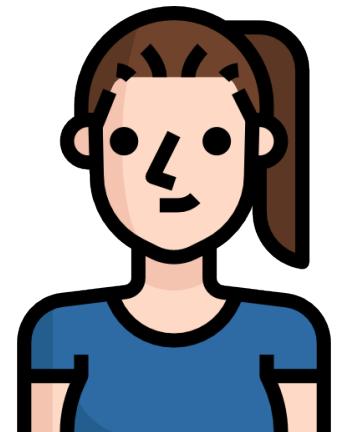
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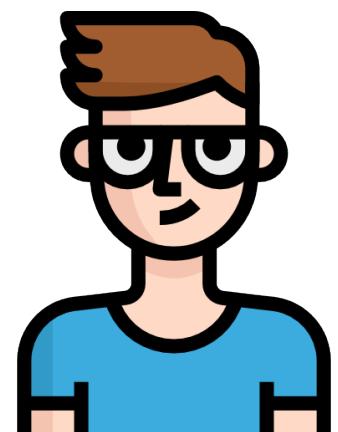
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



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Java 1.8 +
Oracle



I need
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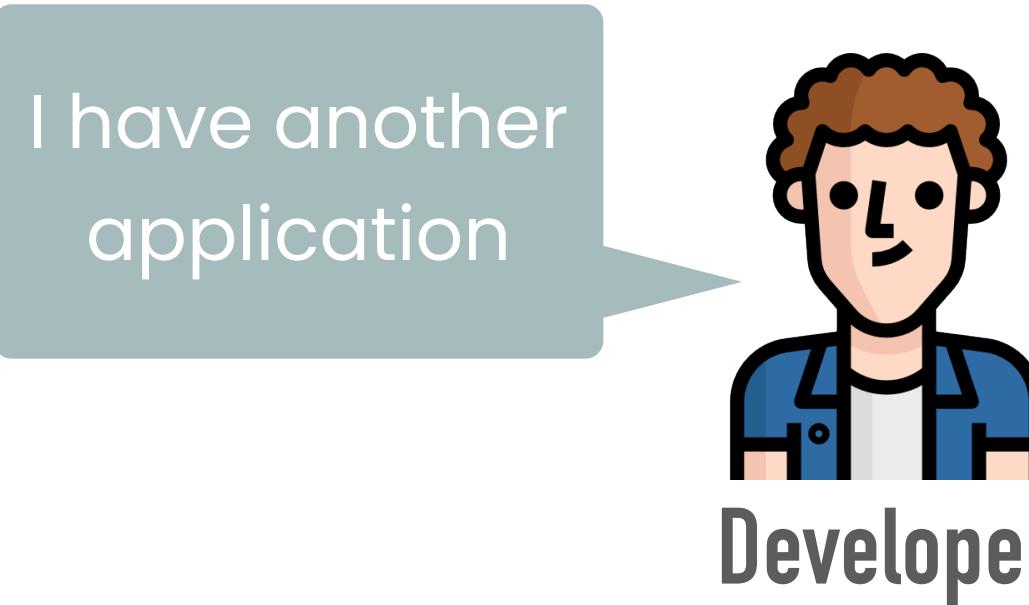
I need
NodeJs 11.0



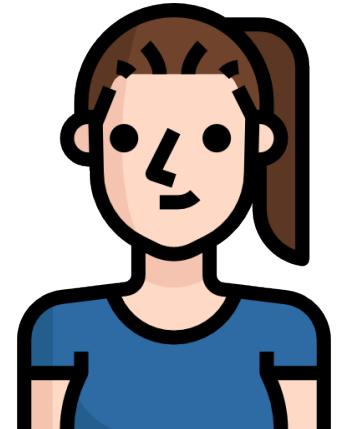
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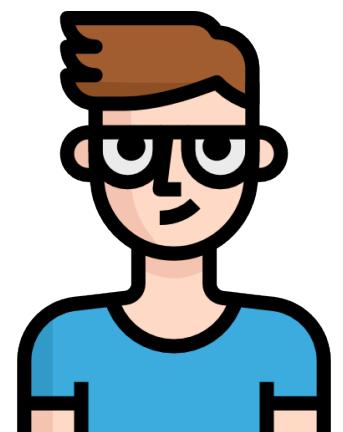
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



I need
Java 1.8 +
Oracle



I need
NodeJs 6.0 +
Java 11 + MySQL



I need
NodeJs 11.0

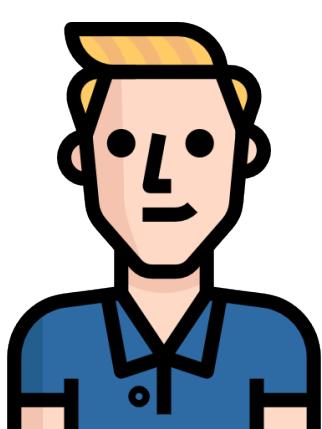
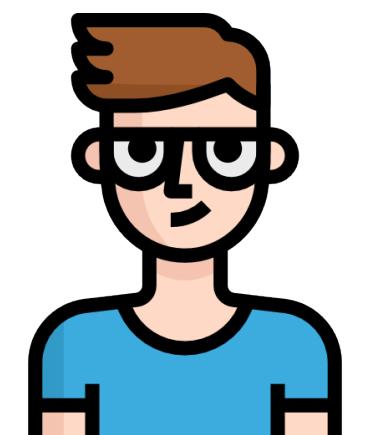
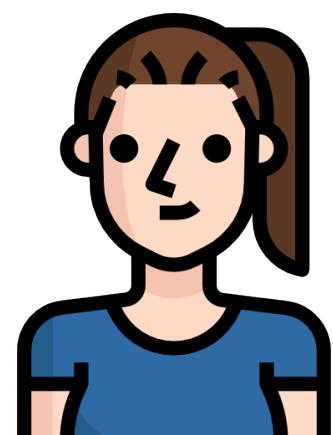
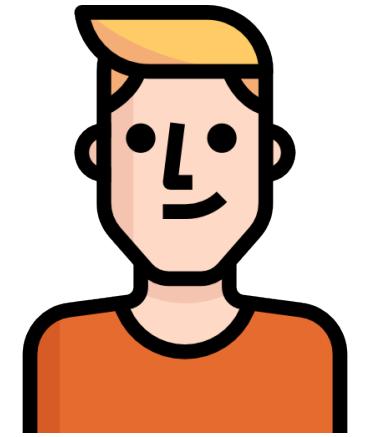


20% used
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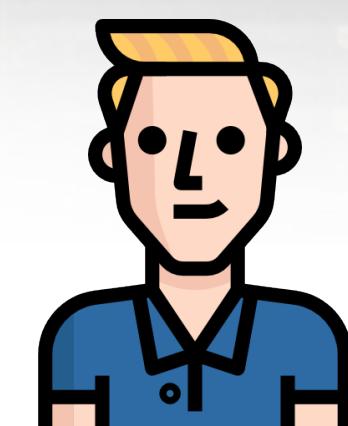
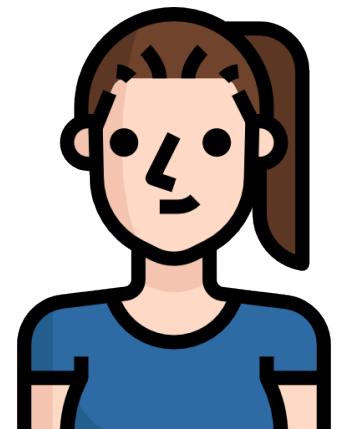
Can we using same version ?

OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA

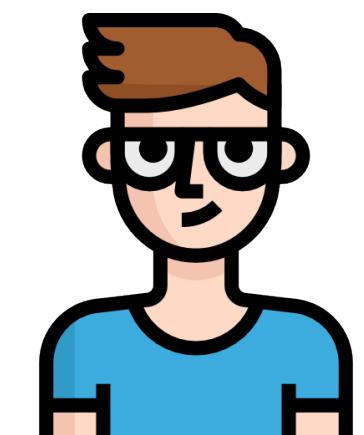


Operation

OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



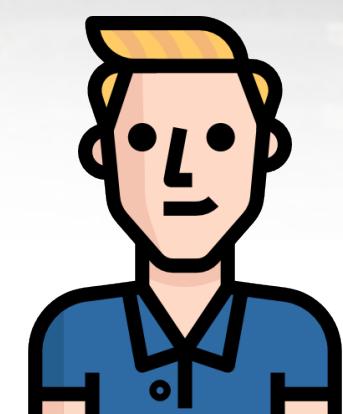
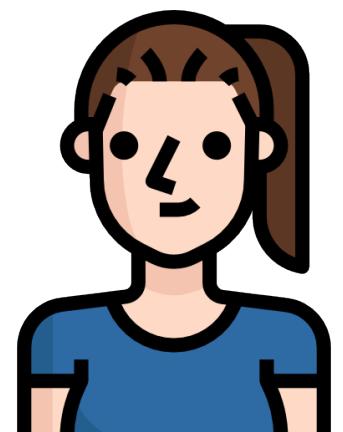
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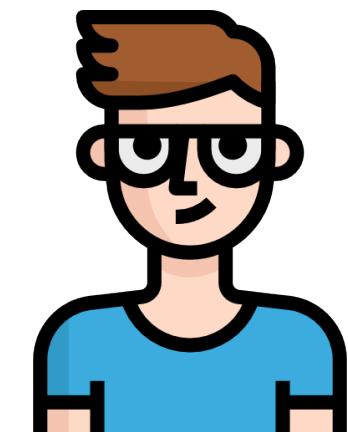
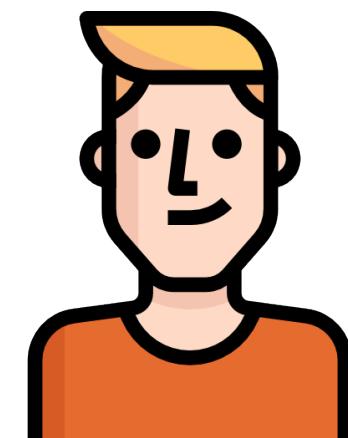
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



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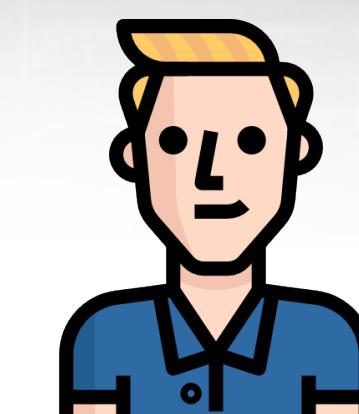
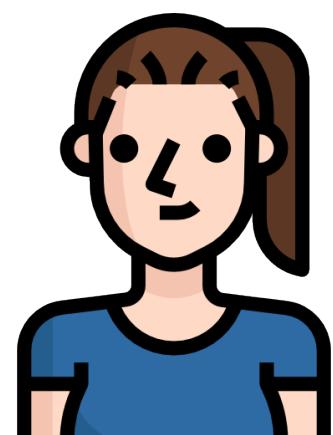
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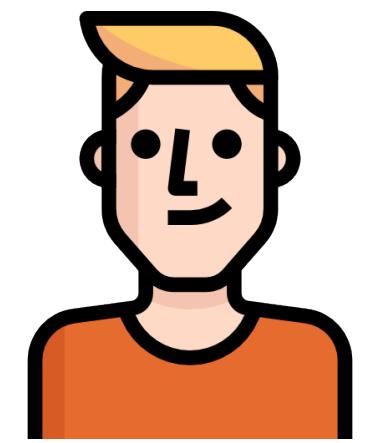
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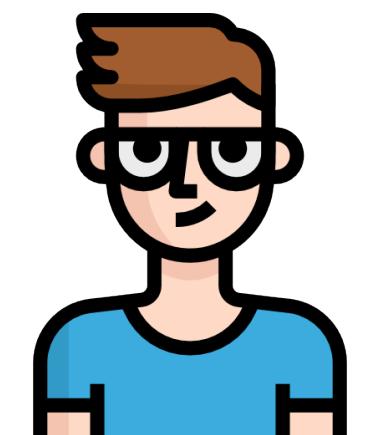
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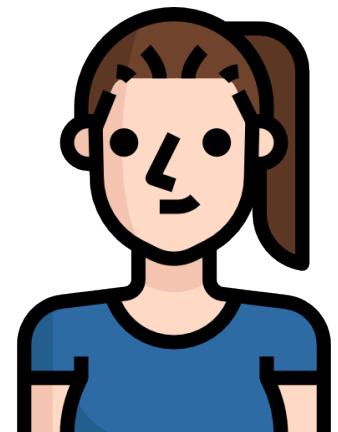
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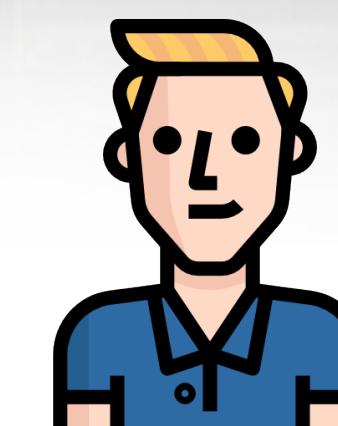
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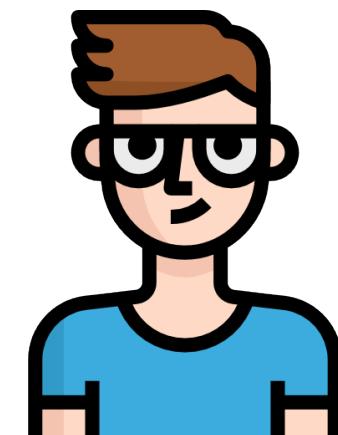
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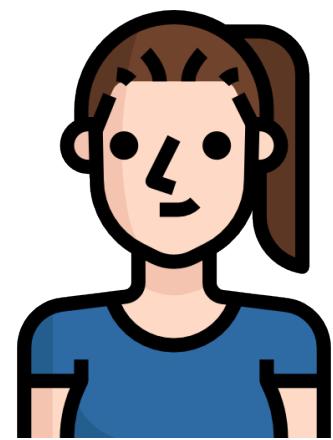
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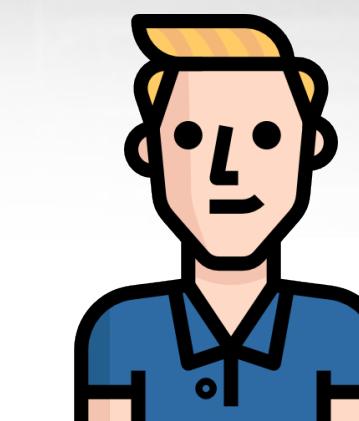
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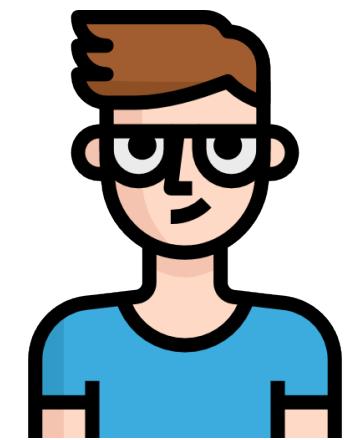
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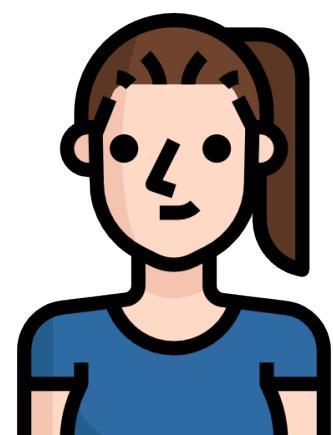
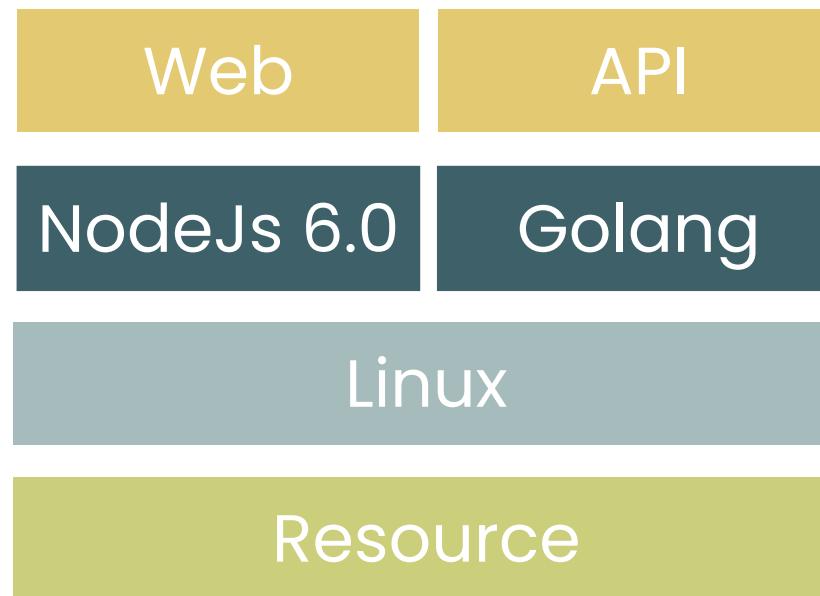


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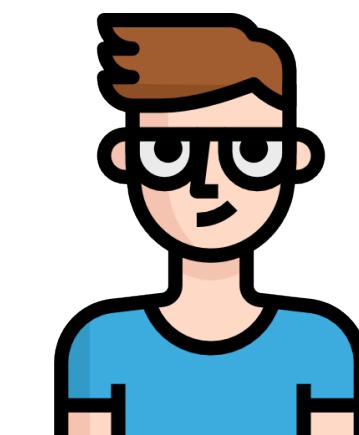
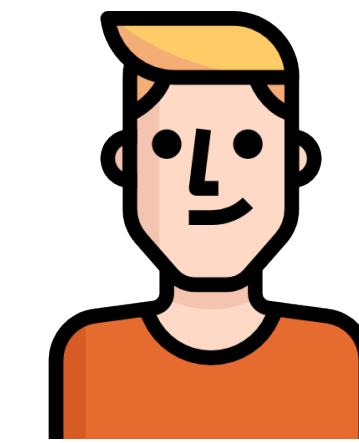


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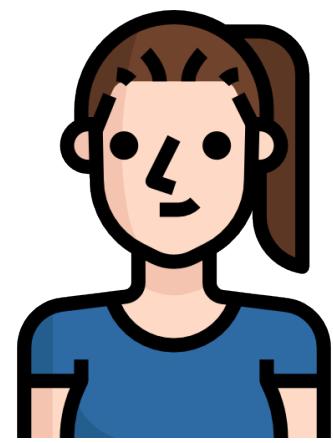
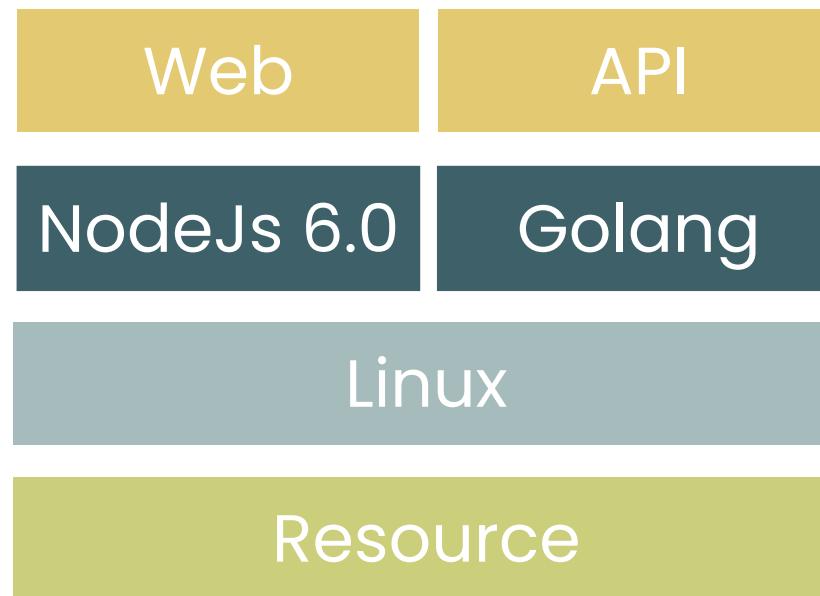
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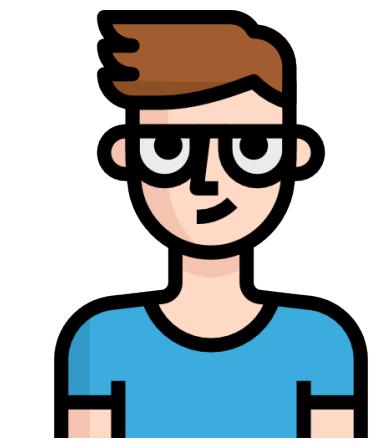
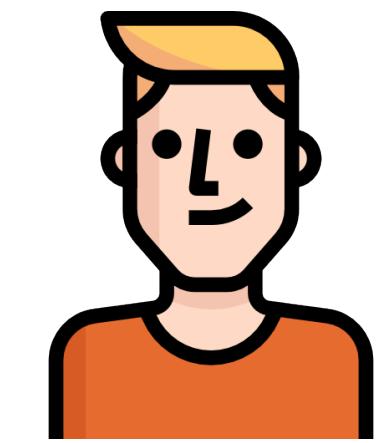
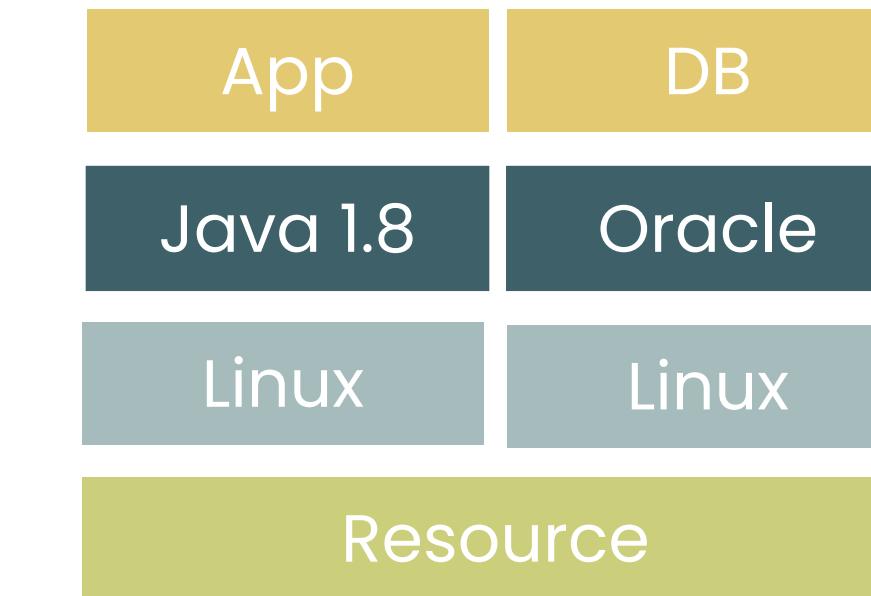
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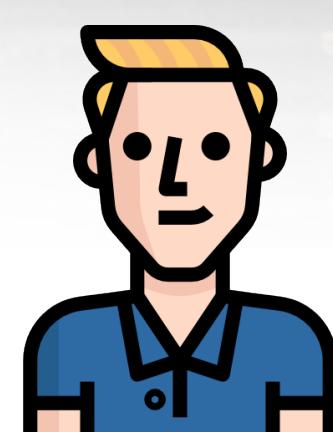
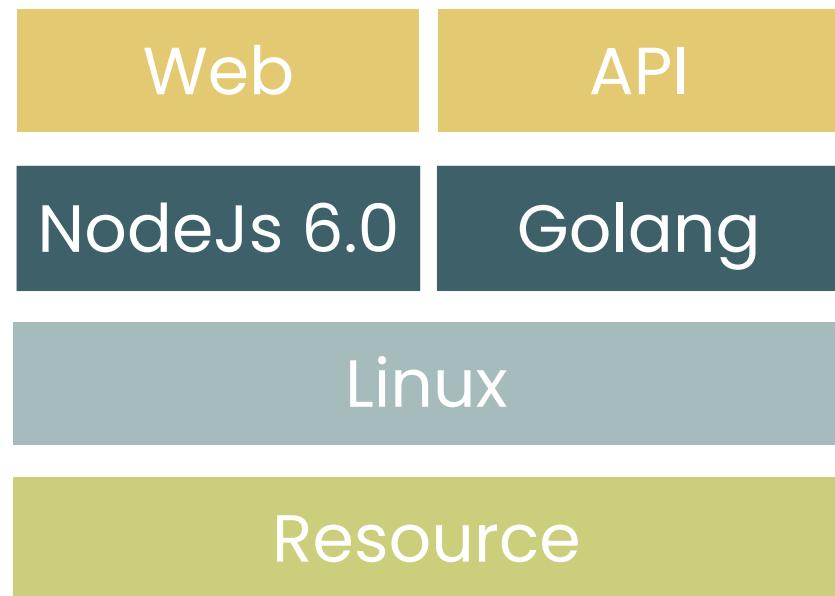
OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



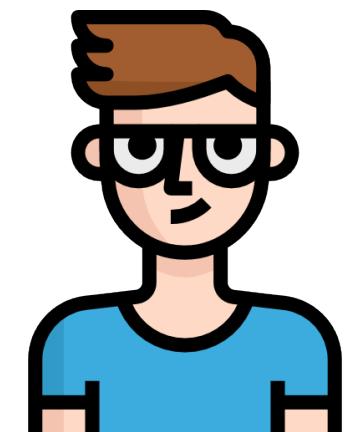
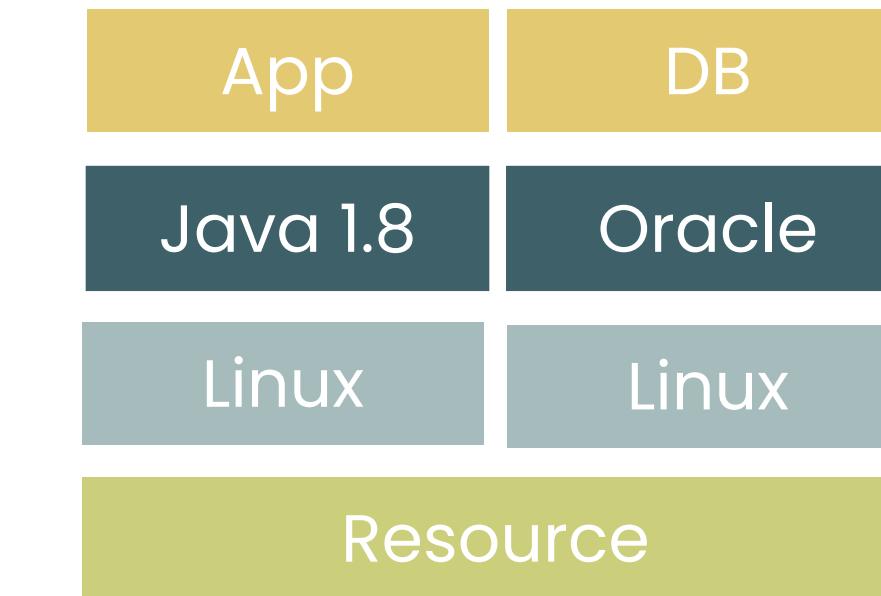
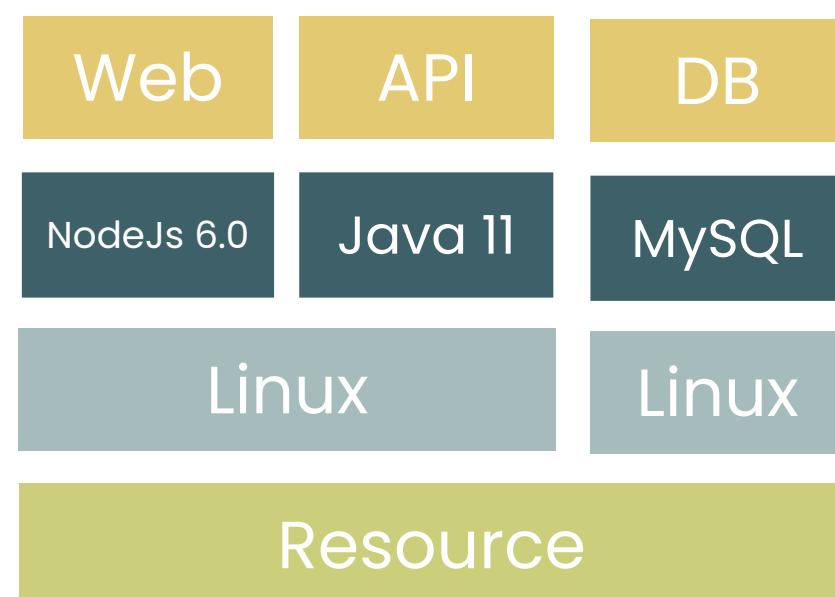
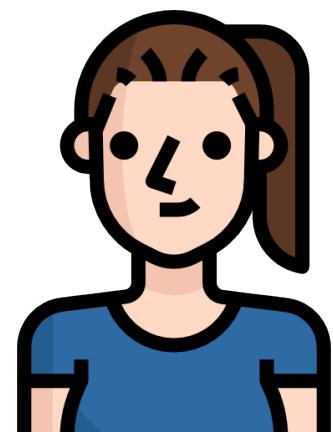
Operation



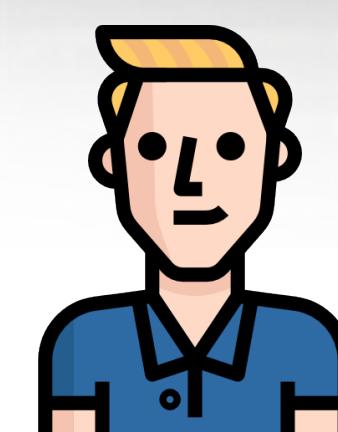
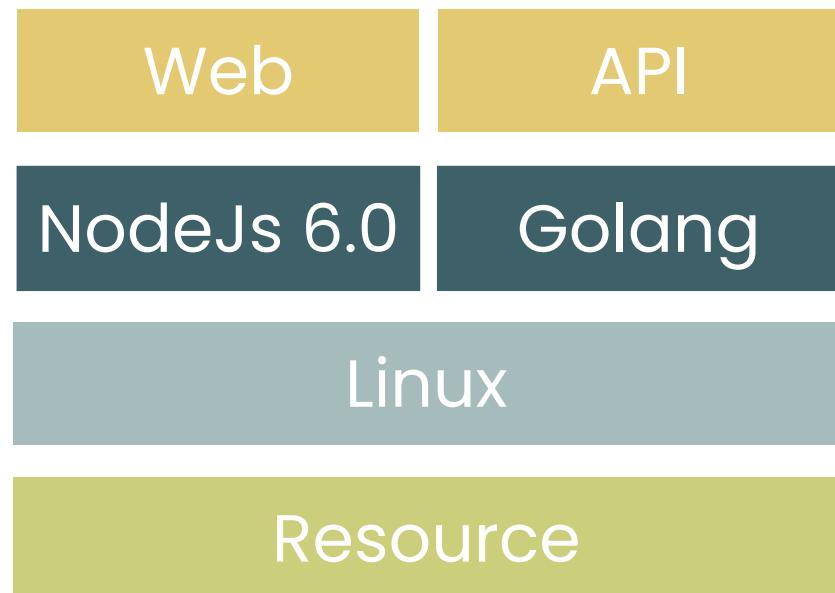
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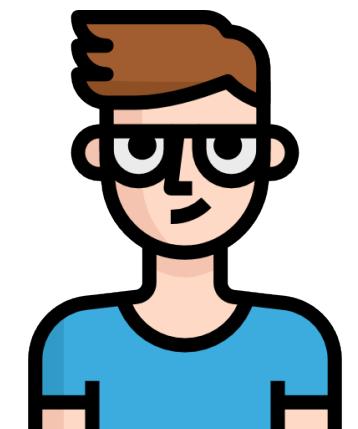
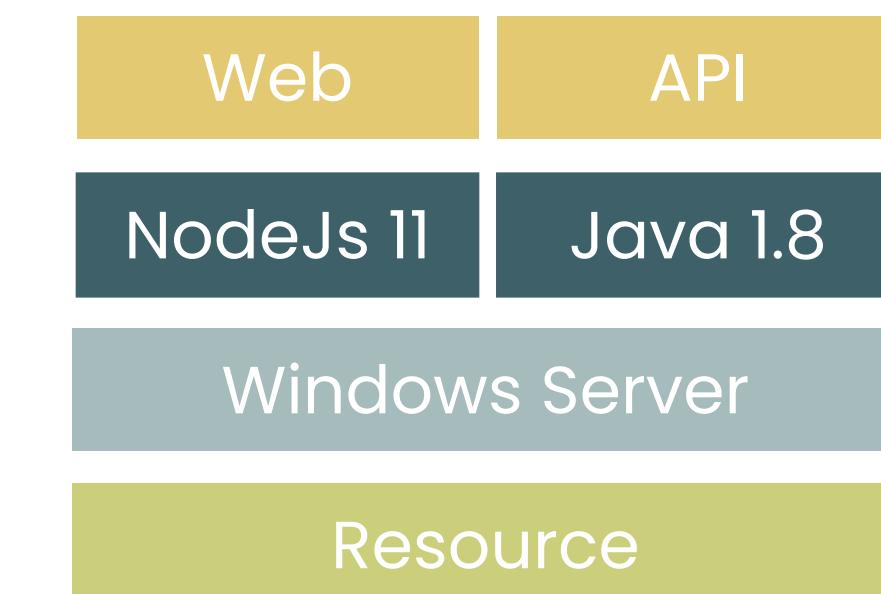
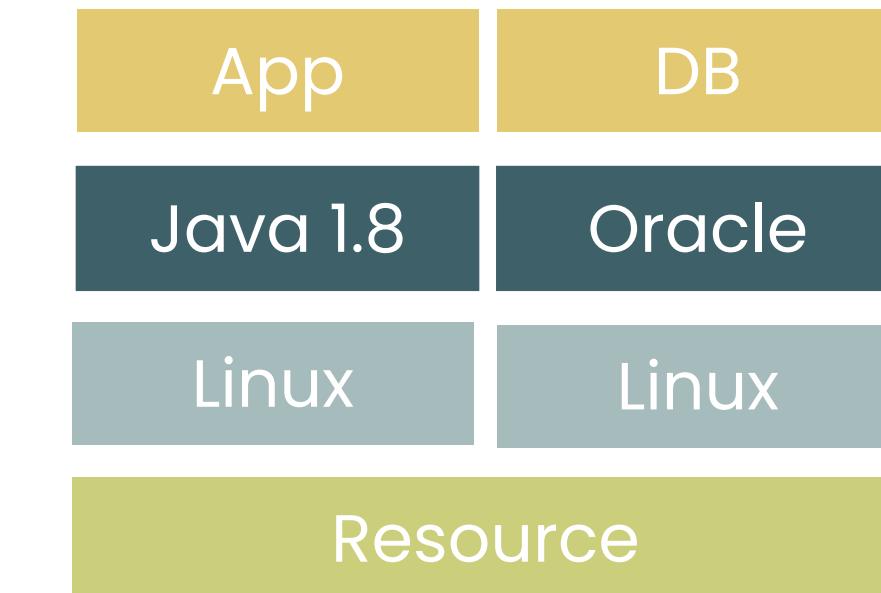
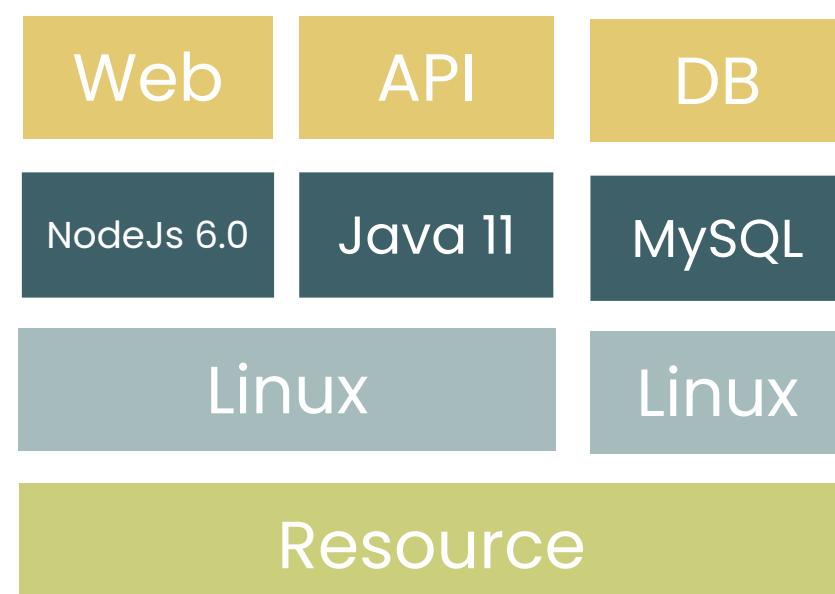
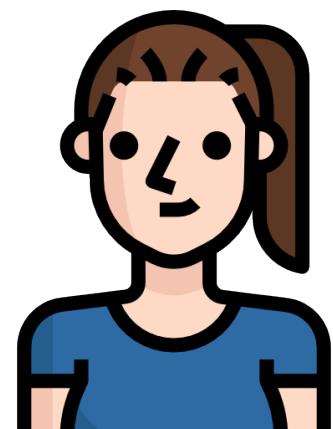
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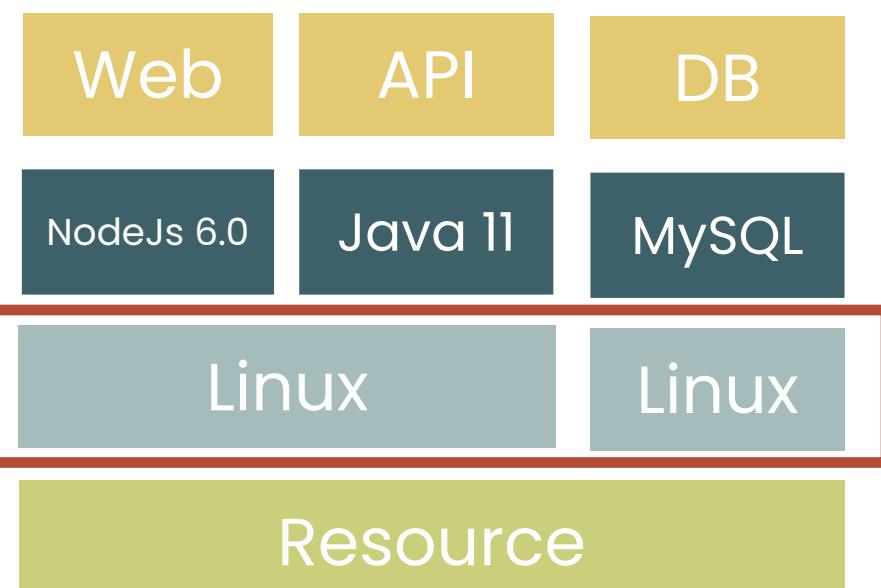
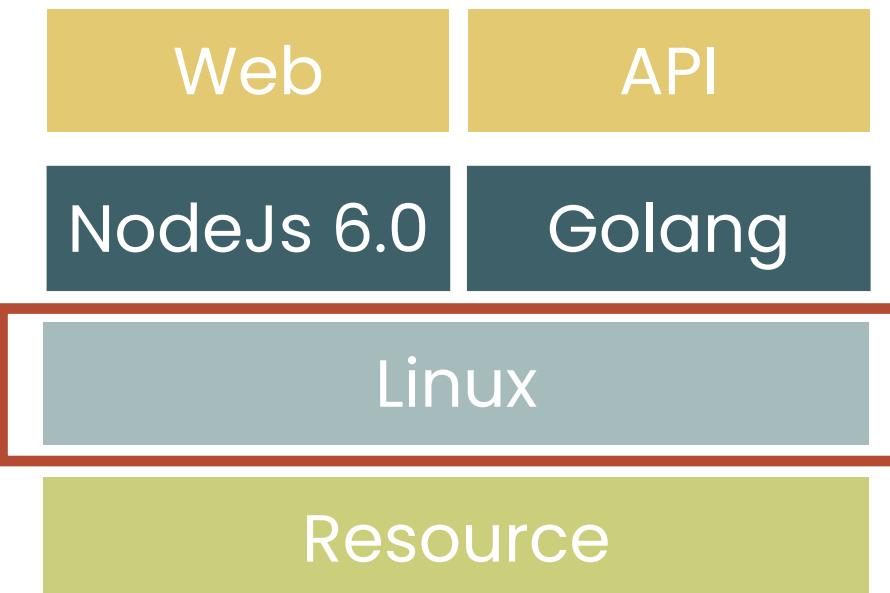
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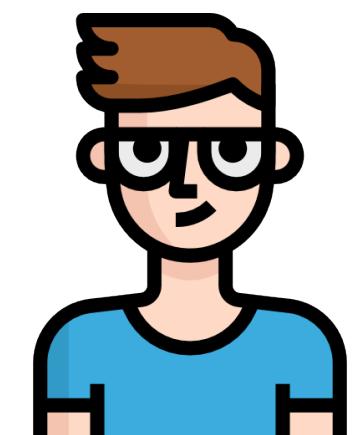
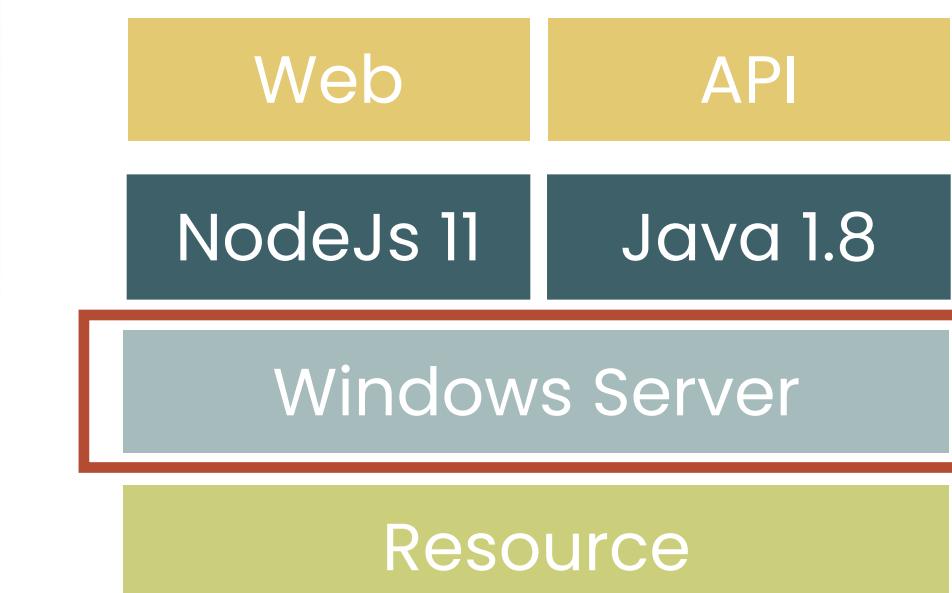
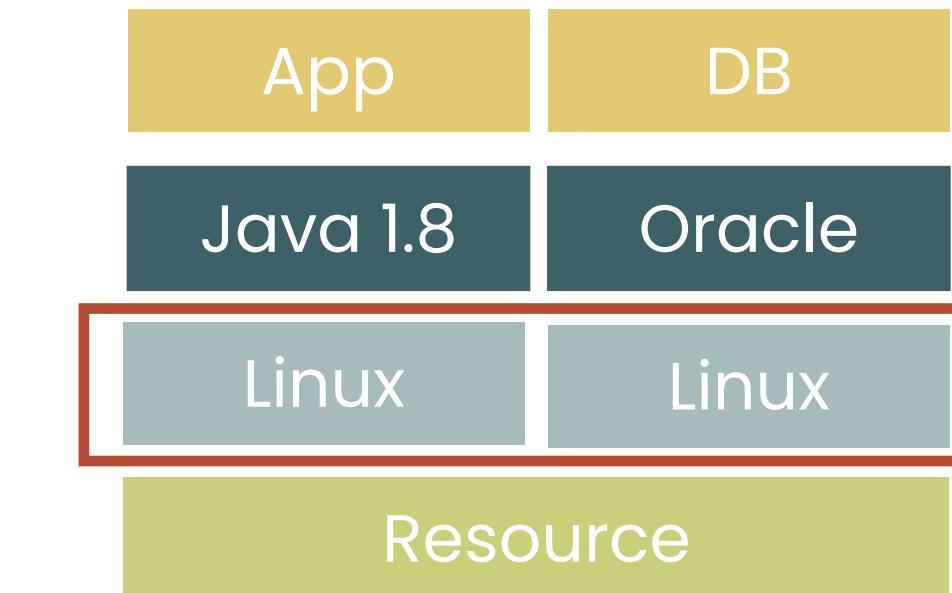
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OLD STORY ABOUT DEVELOPER AND OPERATION - SHARED SERVER ERA



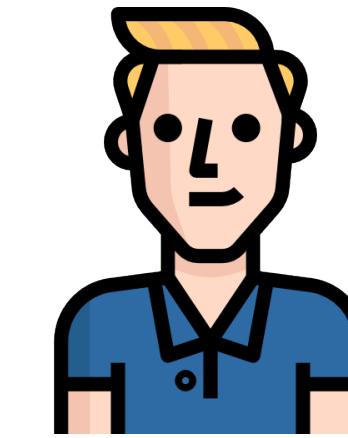
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OLD STORY ABOUT DEVELOPER AND OPERATION - DEPLOYMENT ISSUES

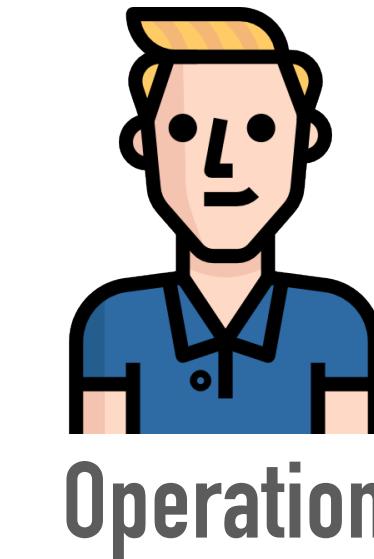
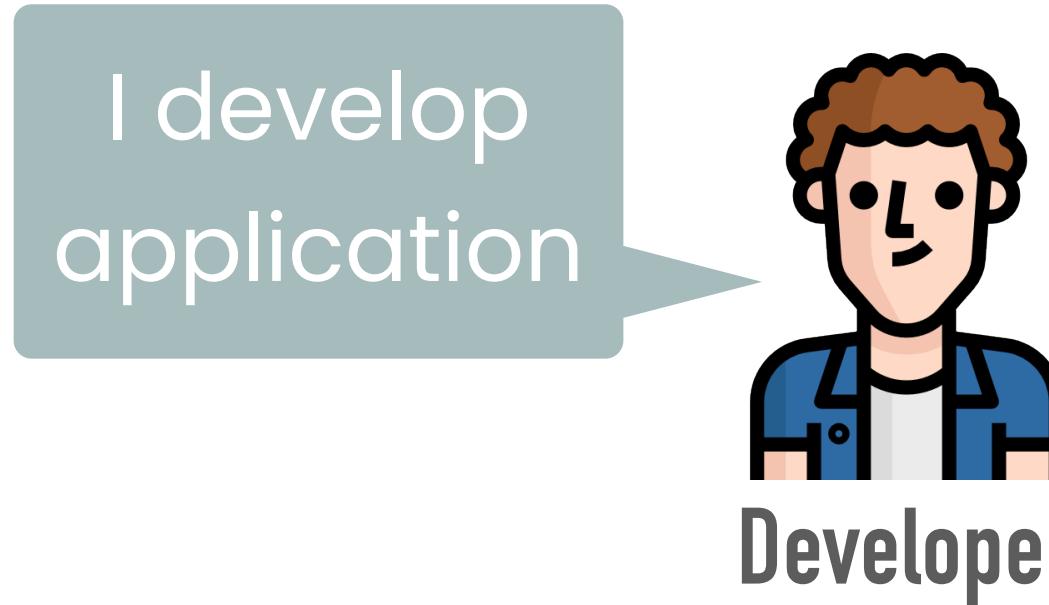


Developer



Operation

OLD STORY ABOUT DEVELOPER AND OPERATION - DEPLOYMENT ISSUES



OLD STORY ABOUT DEVELOPER AND OPERATION - DEPLOYMENT ISSUES

I develop
application



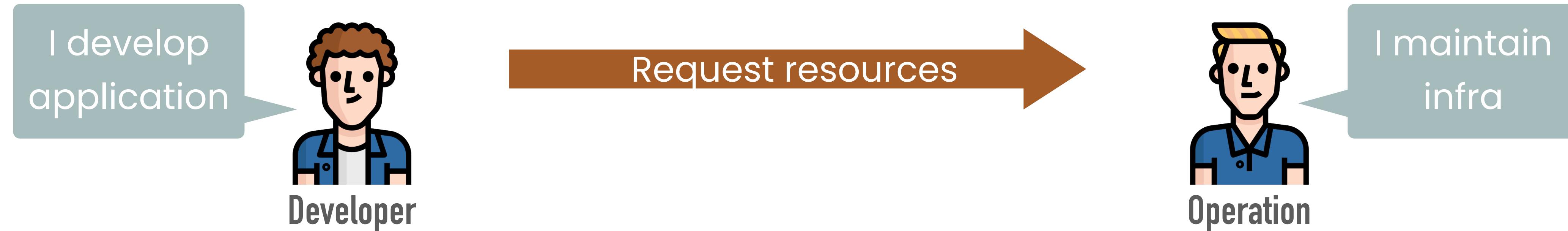
Developer

I maintain
infra

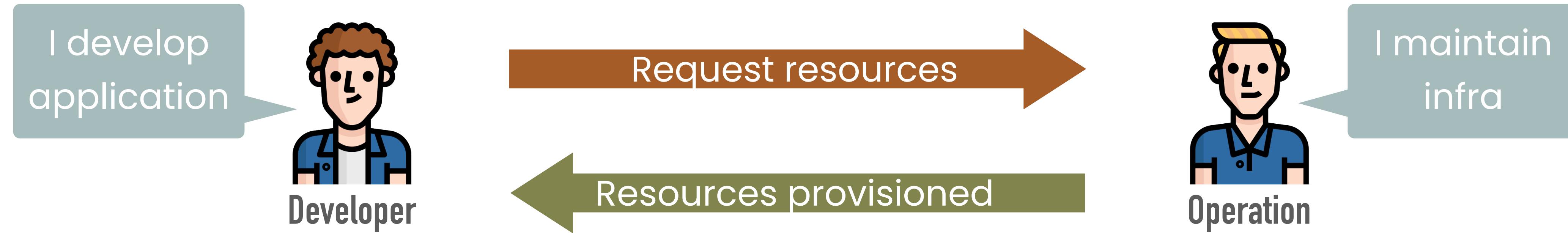


Operation

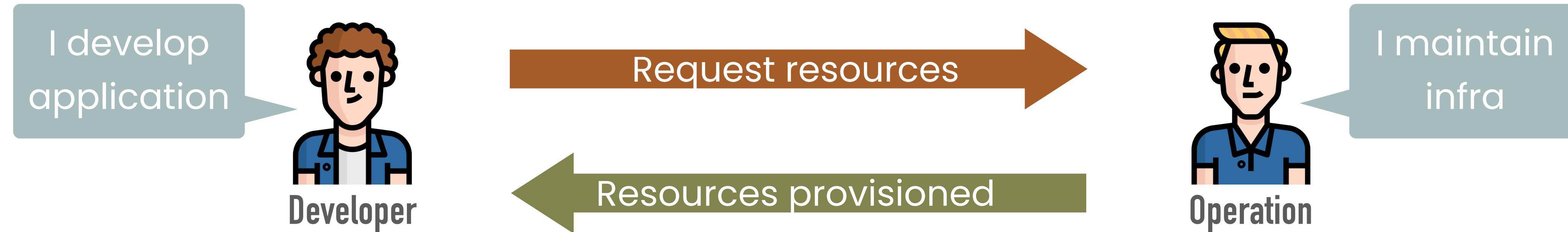
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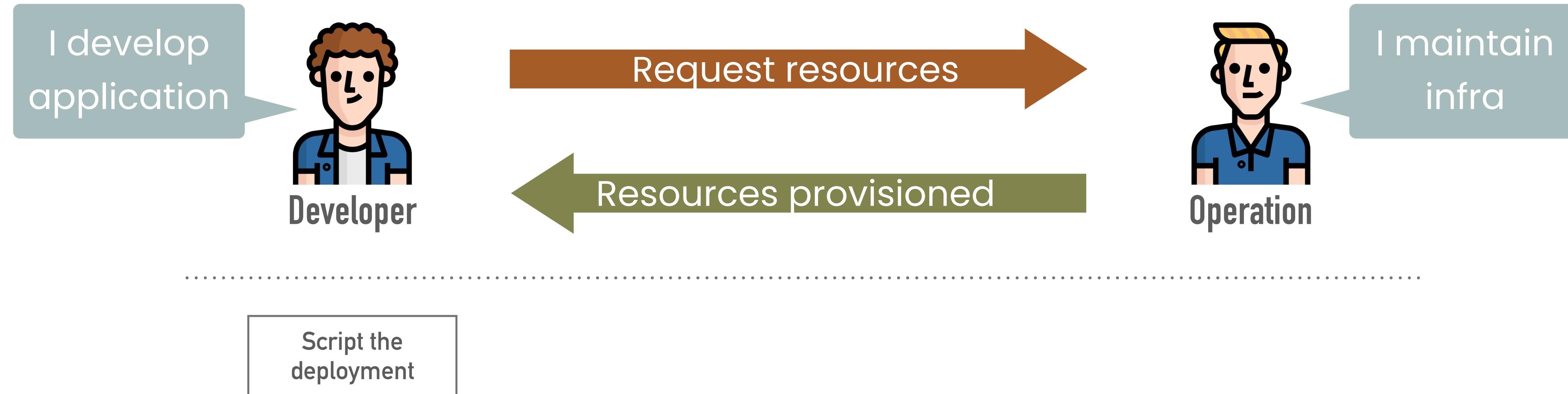
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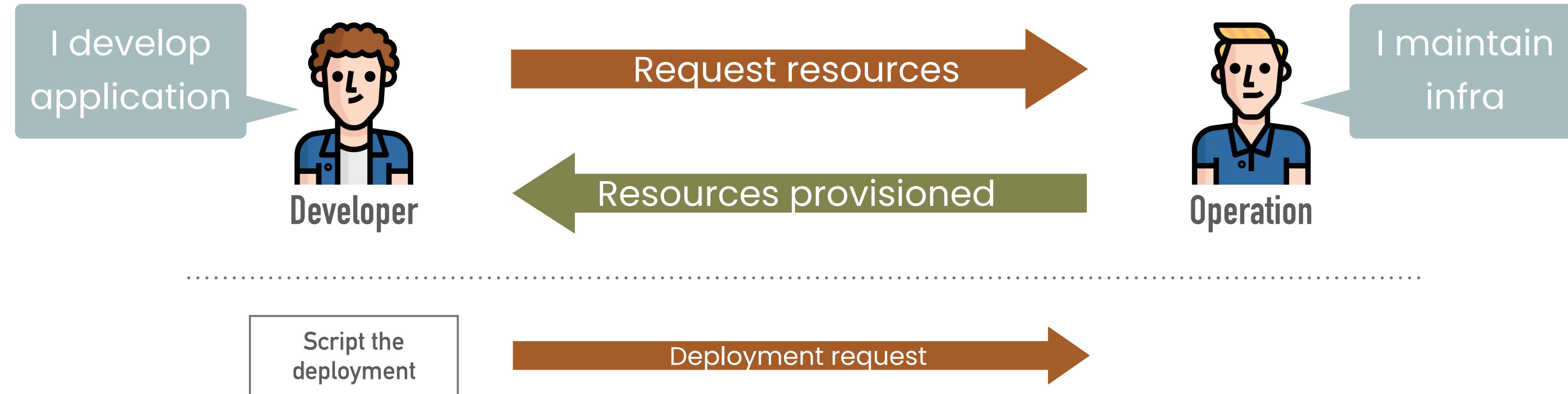
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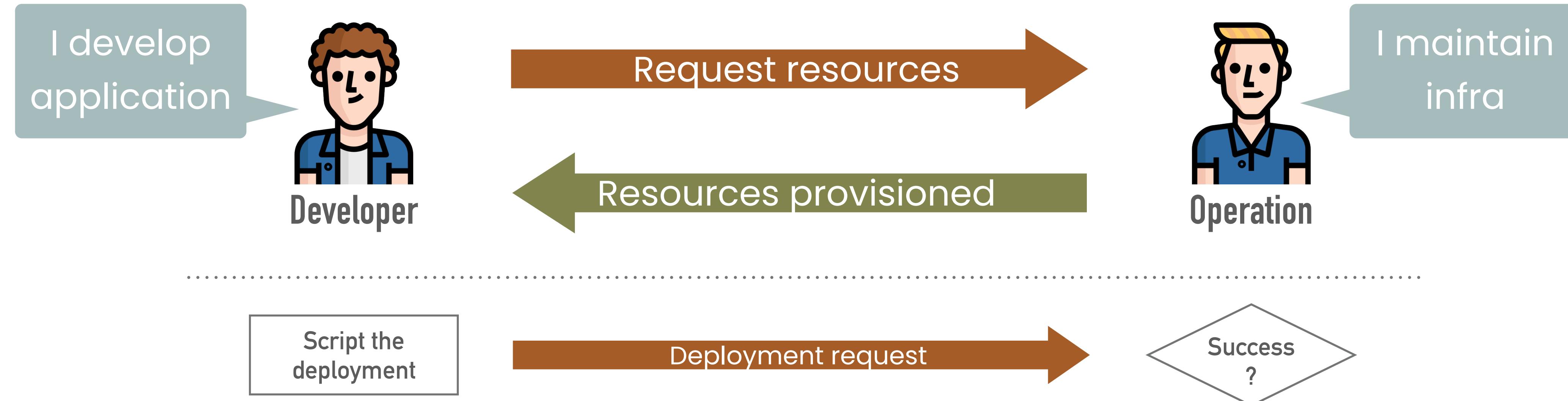
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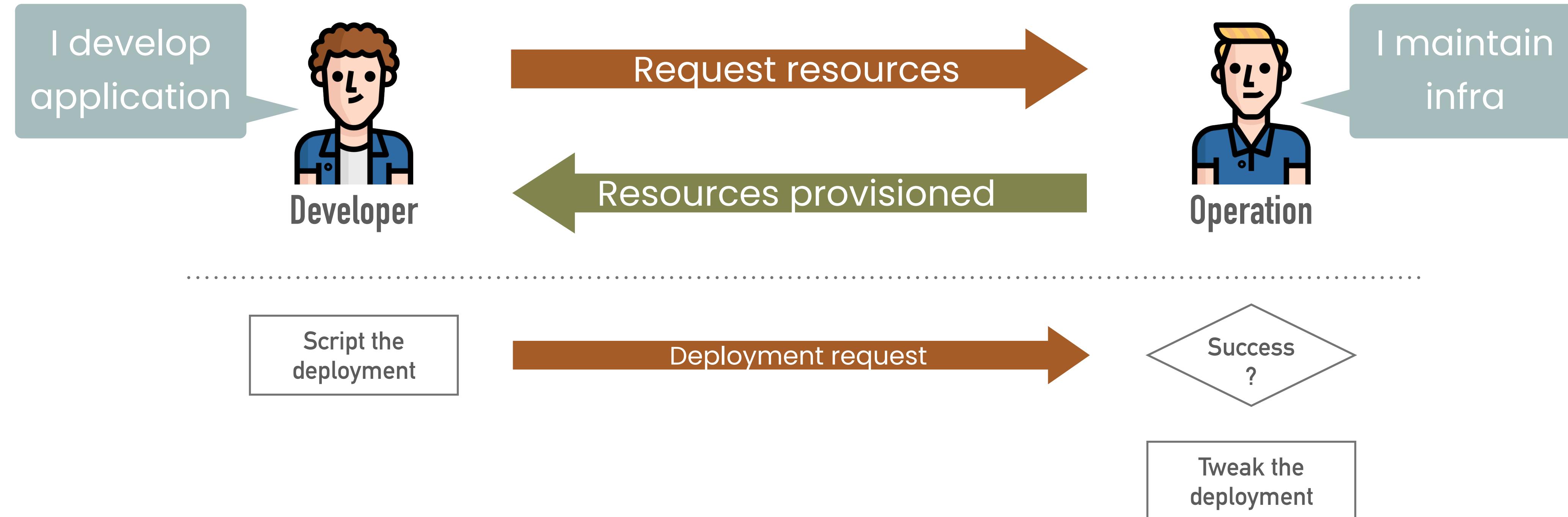
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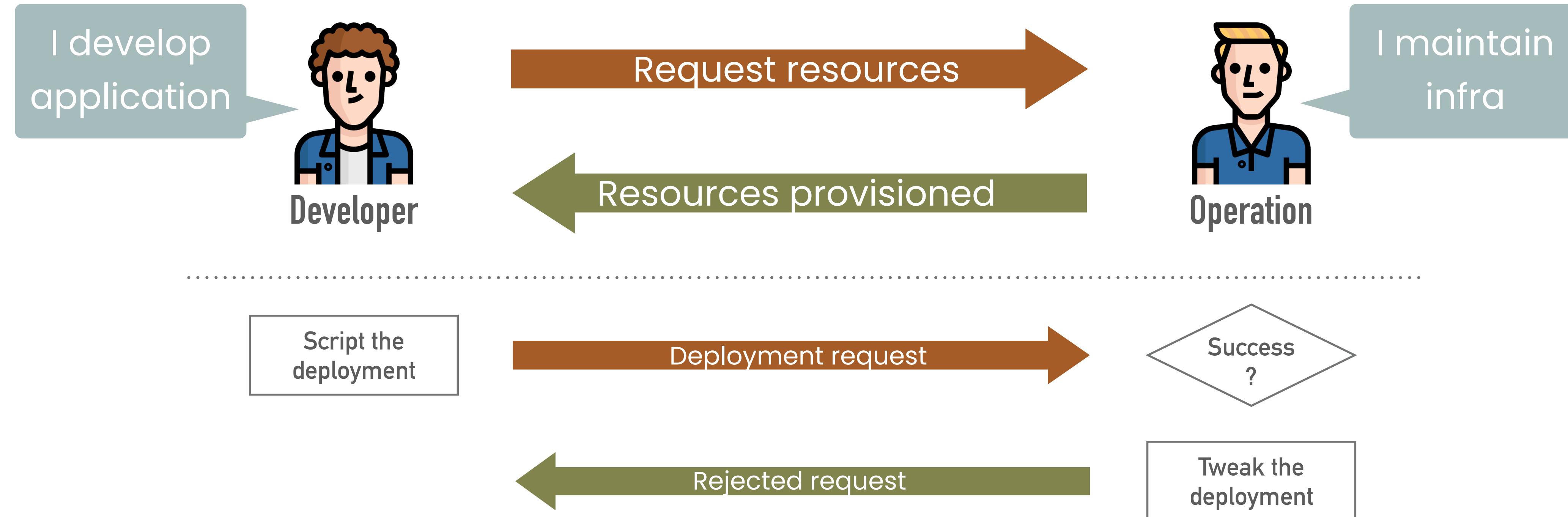
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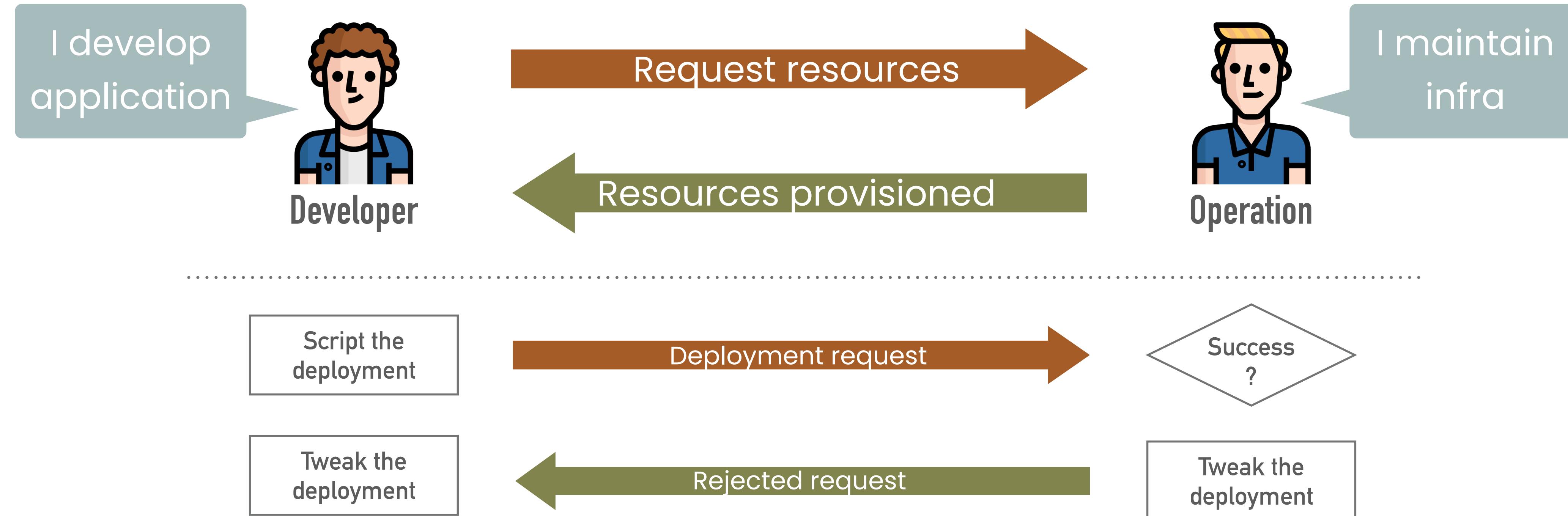
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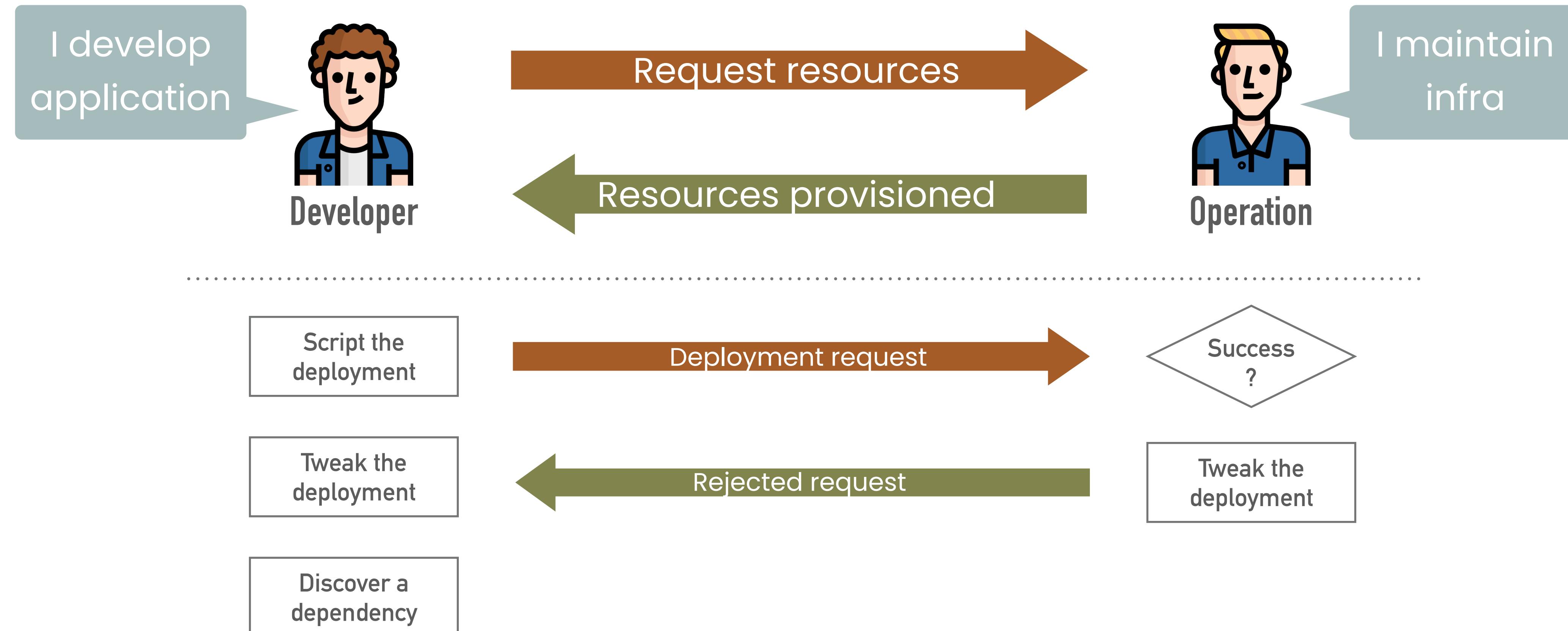
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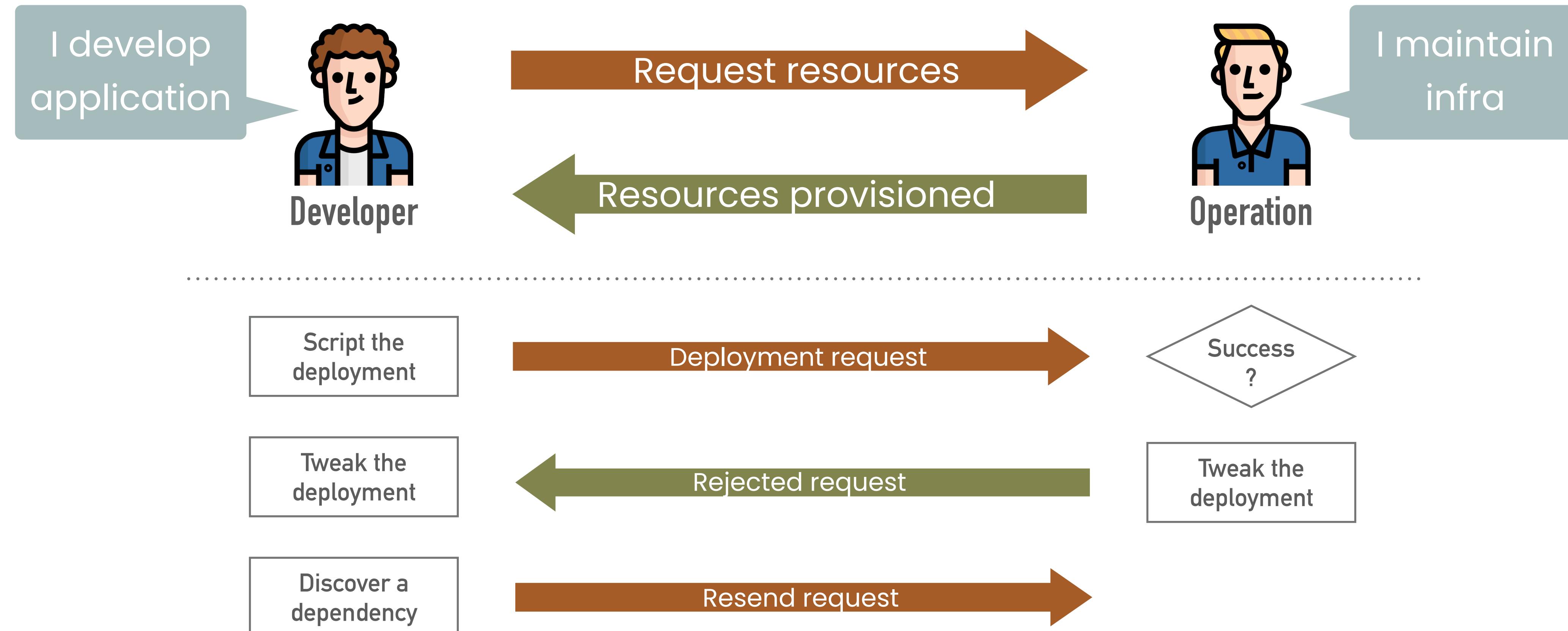
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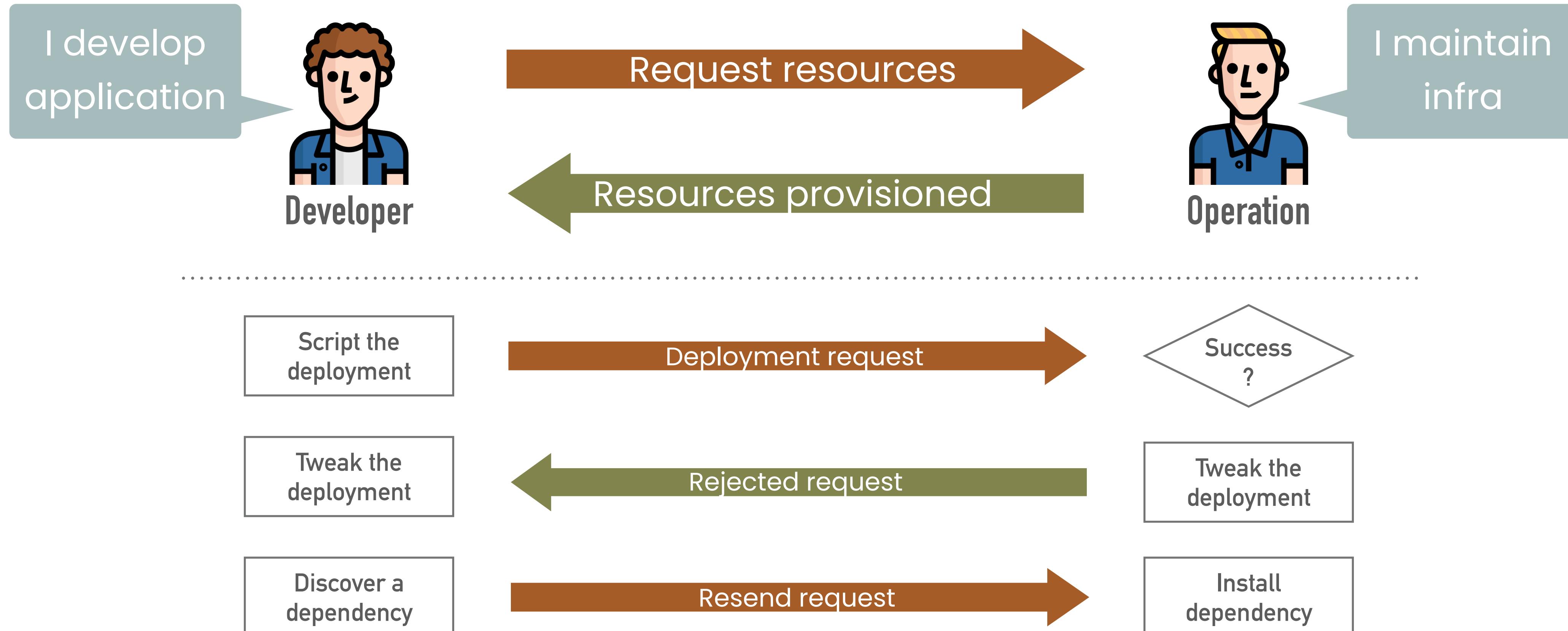
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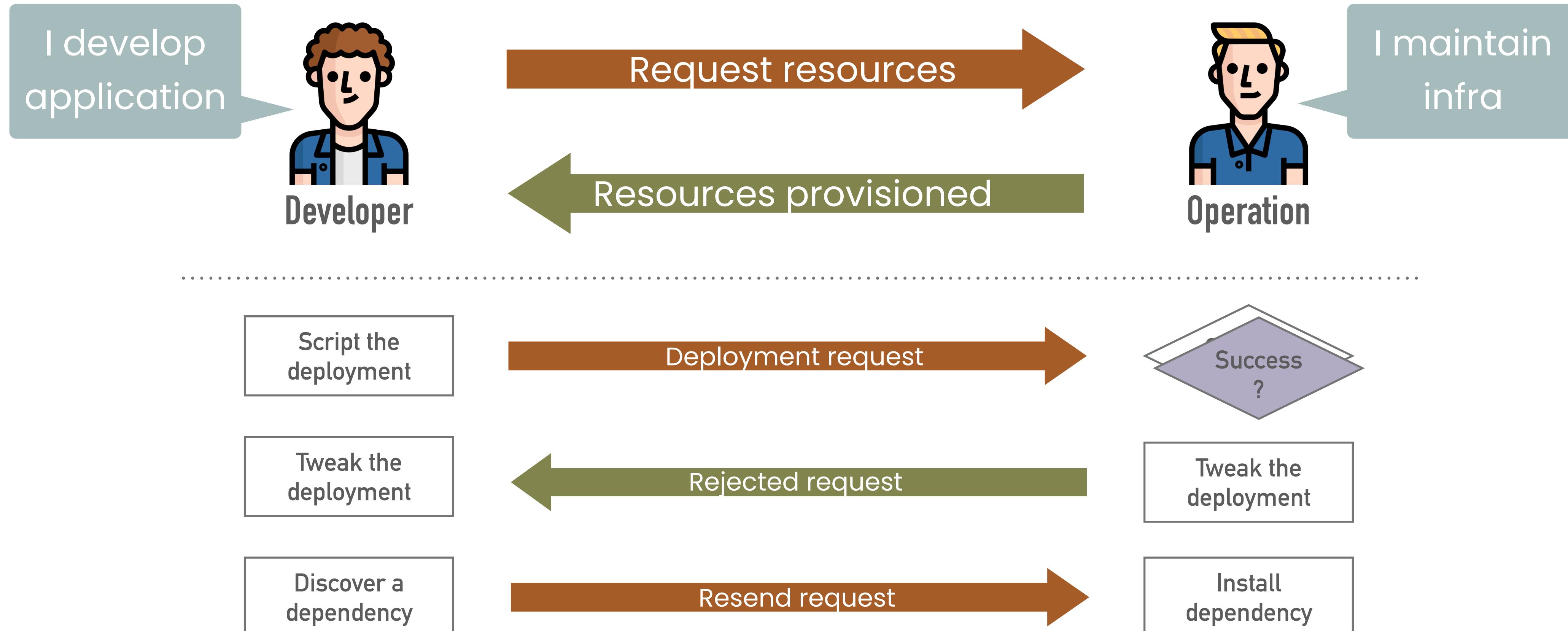
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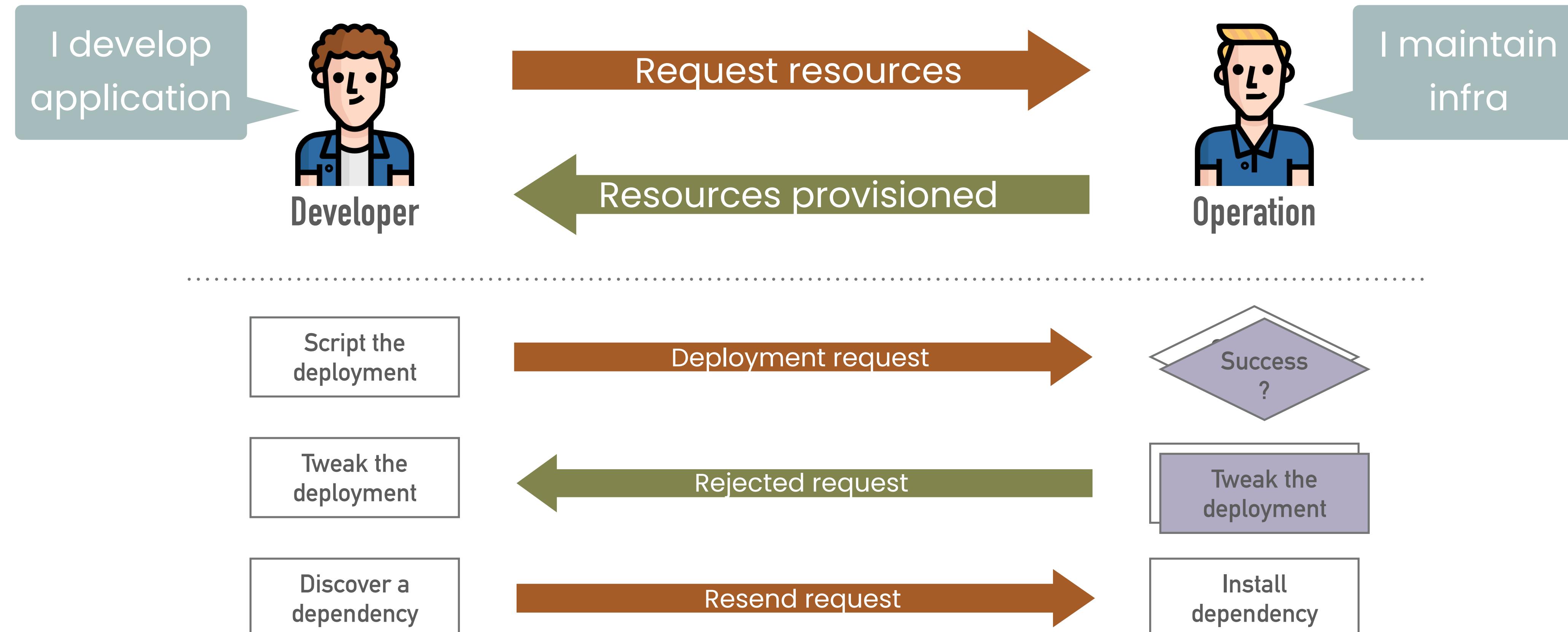
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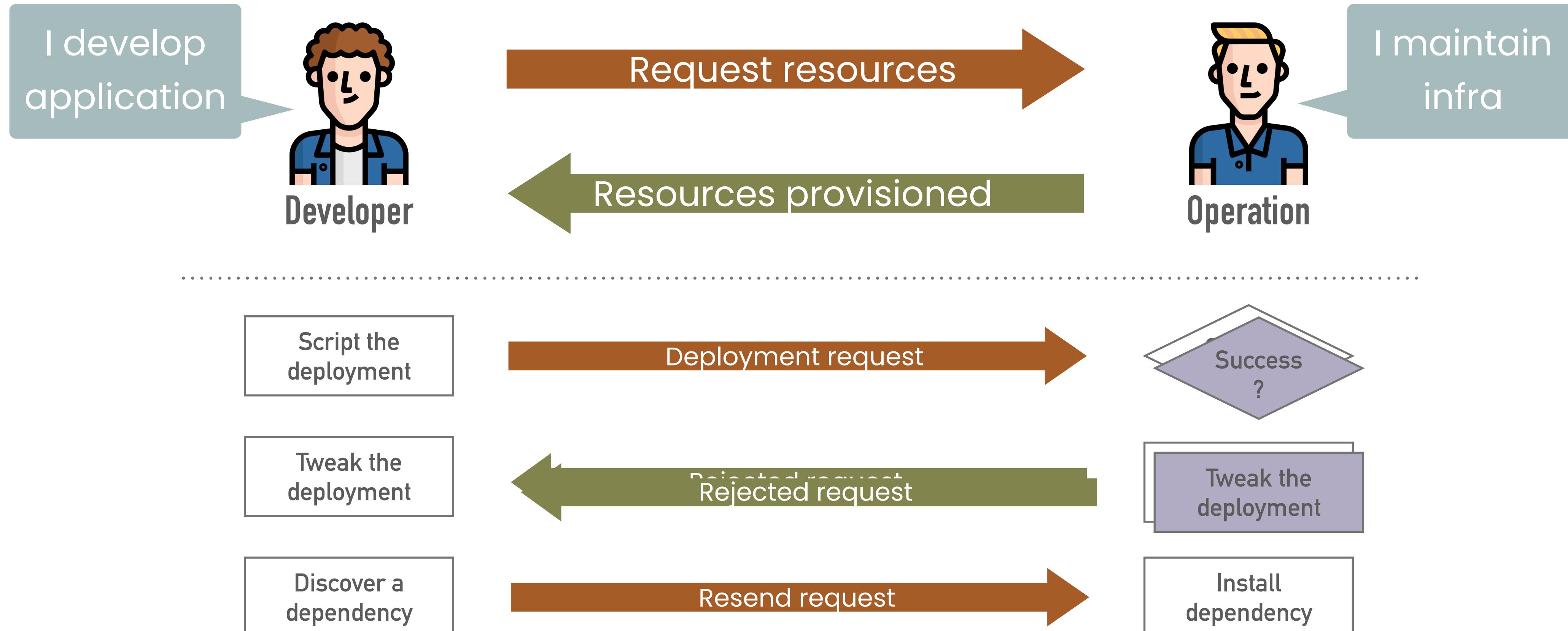
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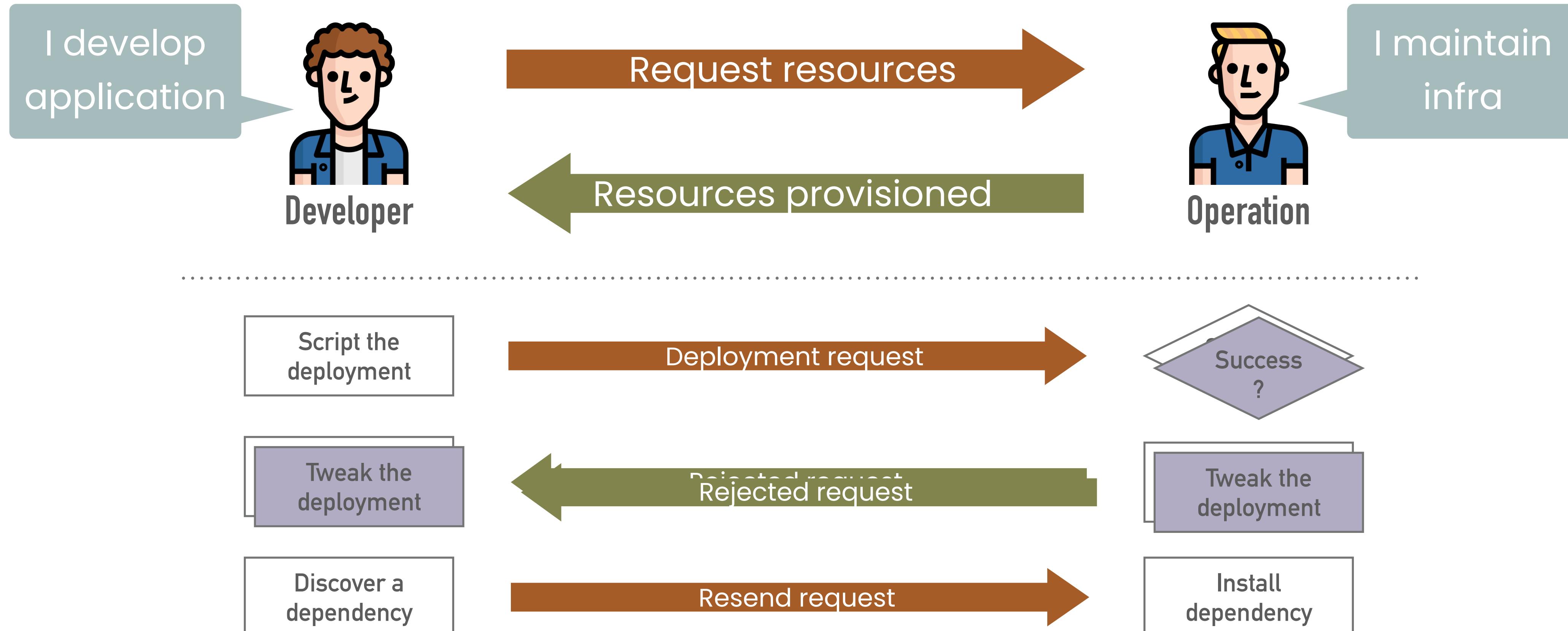
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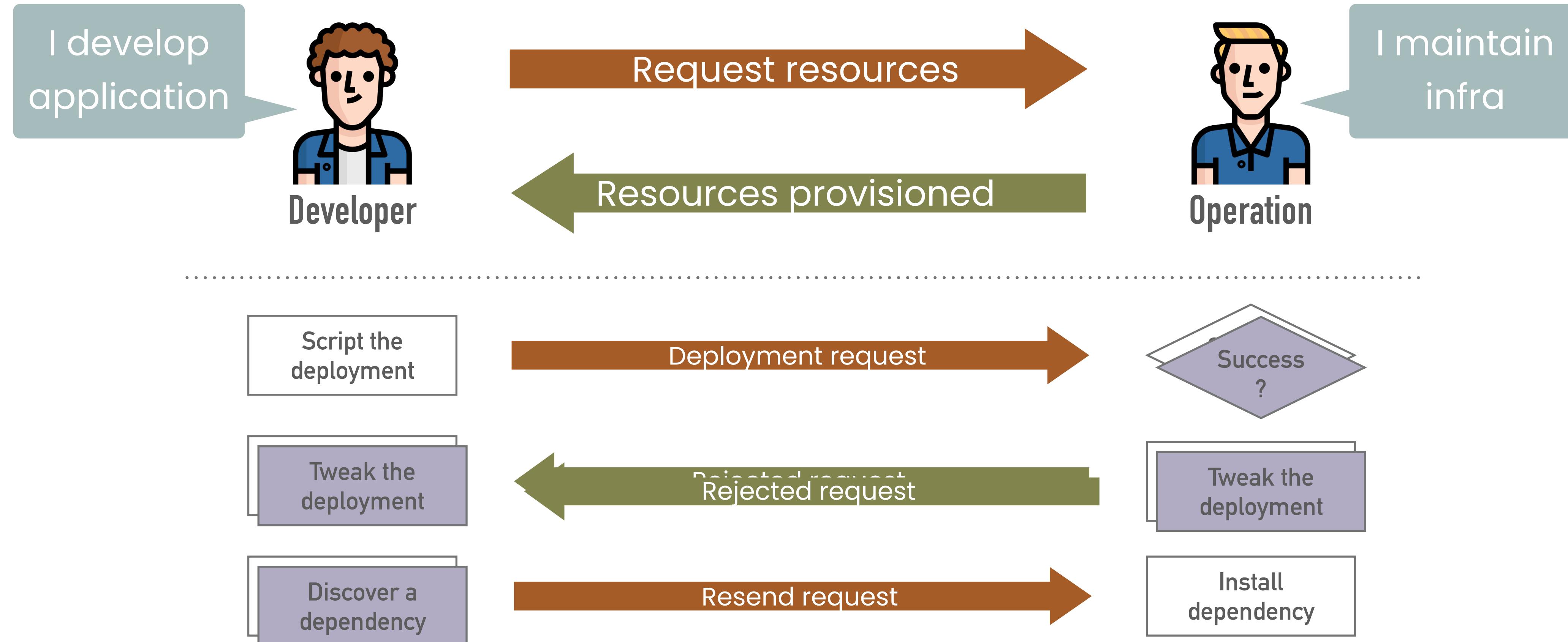
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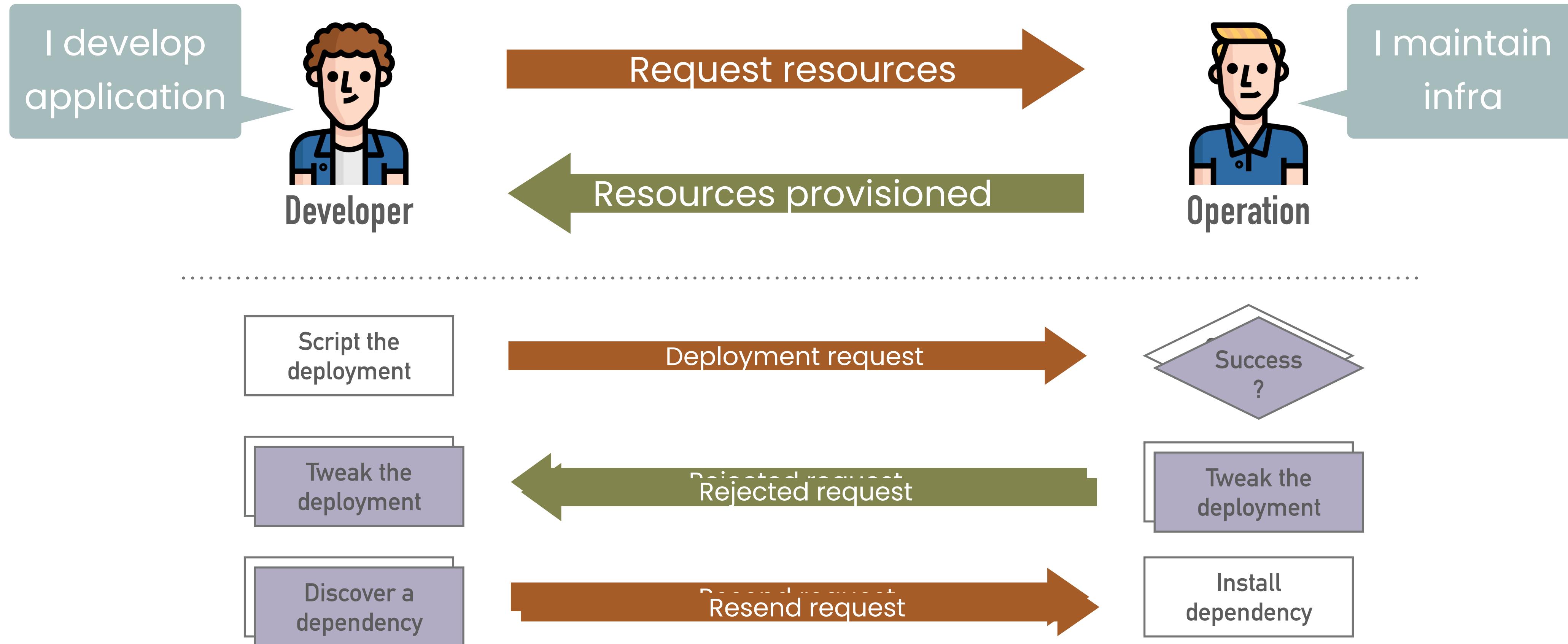
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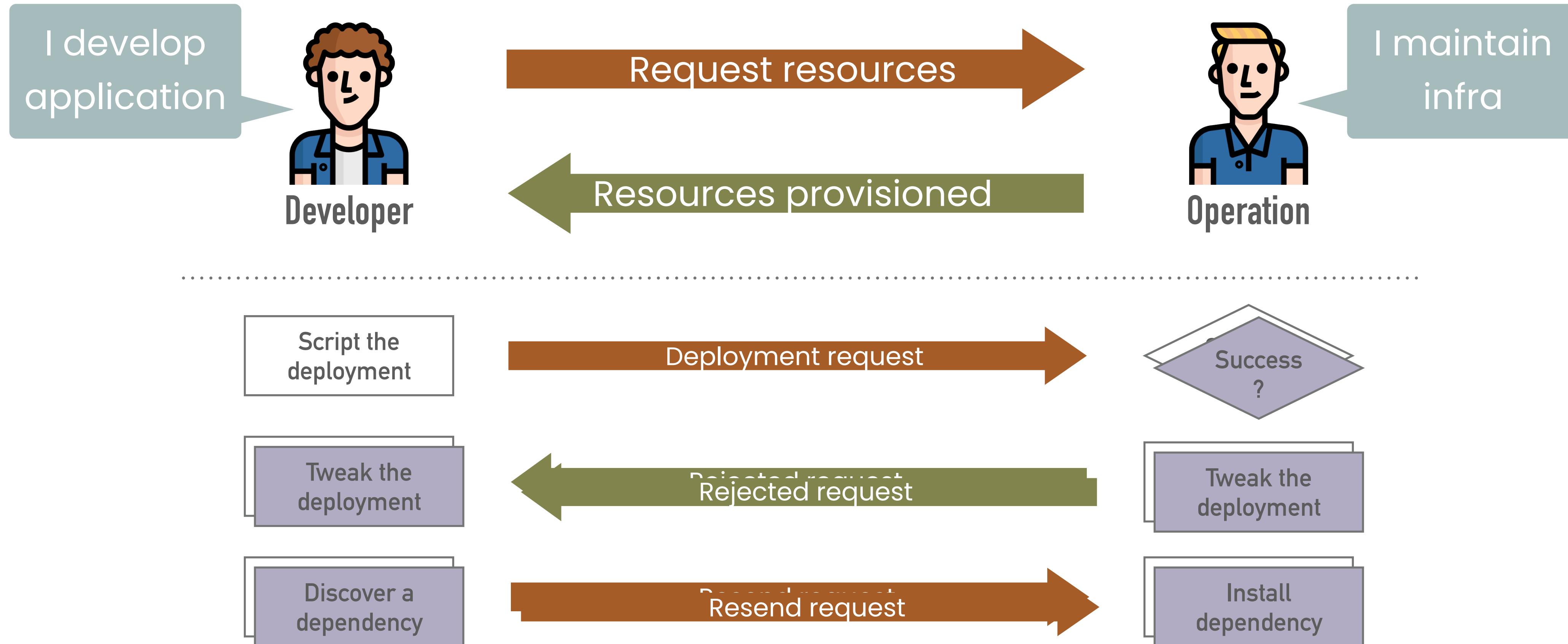
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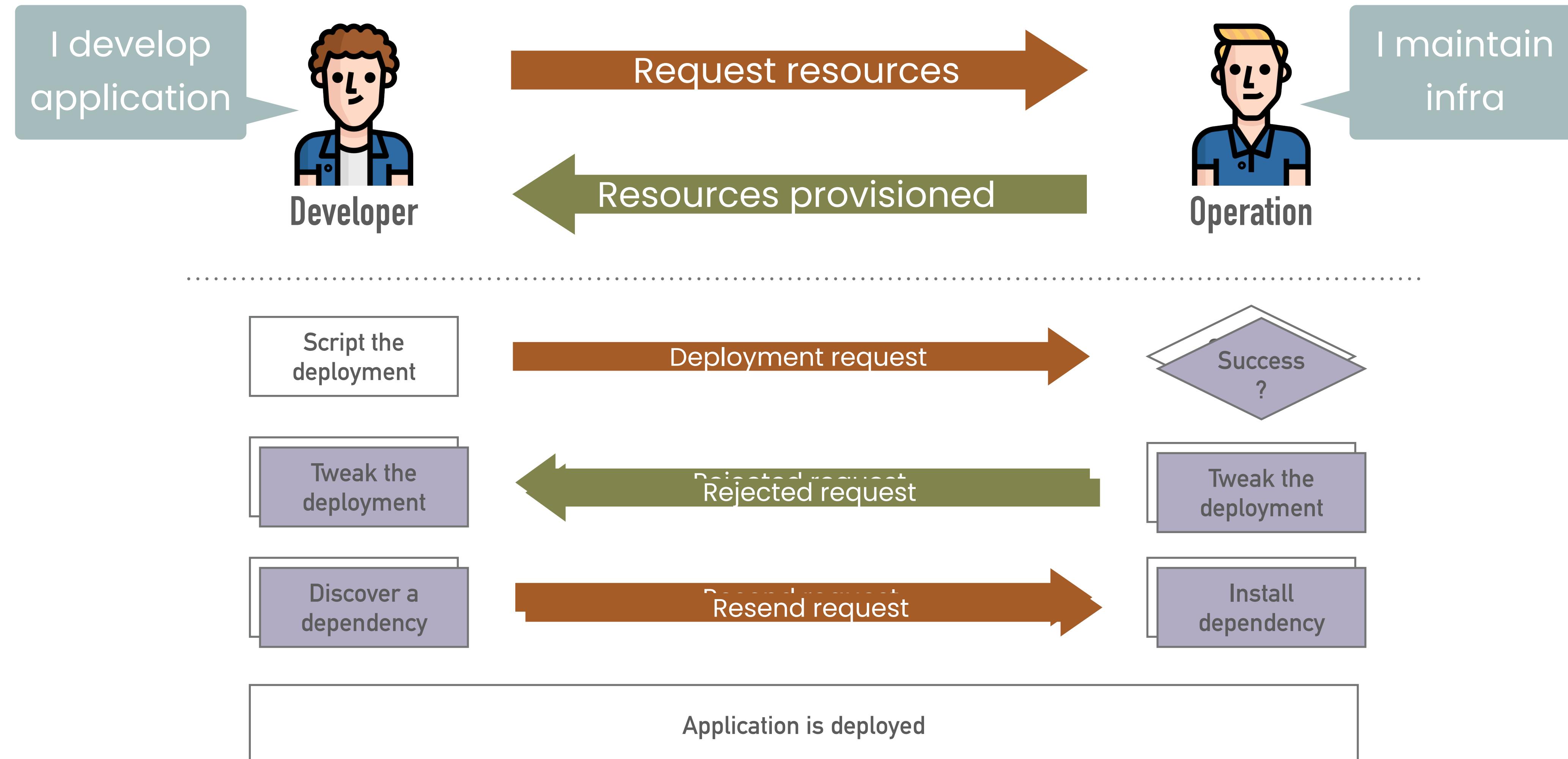
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OLD STORY ABOUT DEVELOPER AND OPERATION - DEPLOYMENT ISSUES



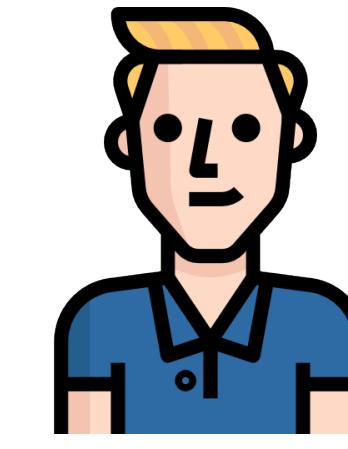
OLD STORY ABOUT DEVELOPER AND OPERATION - DEPLOYMENT ISSUES



OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES

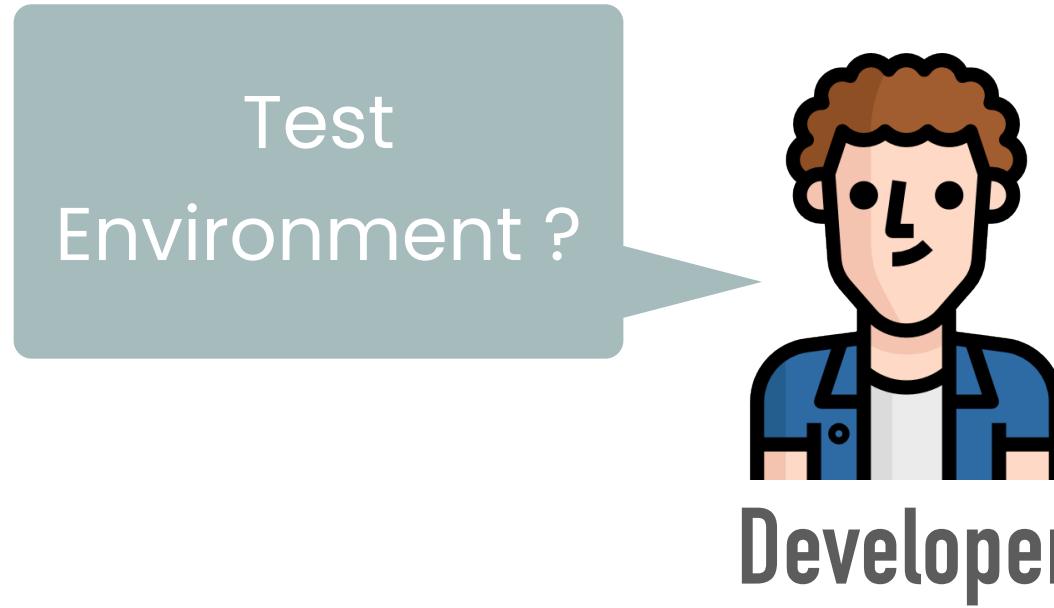


Developer

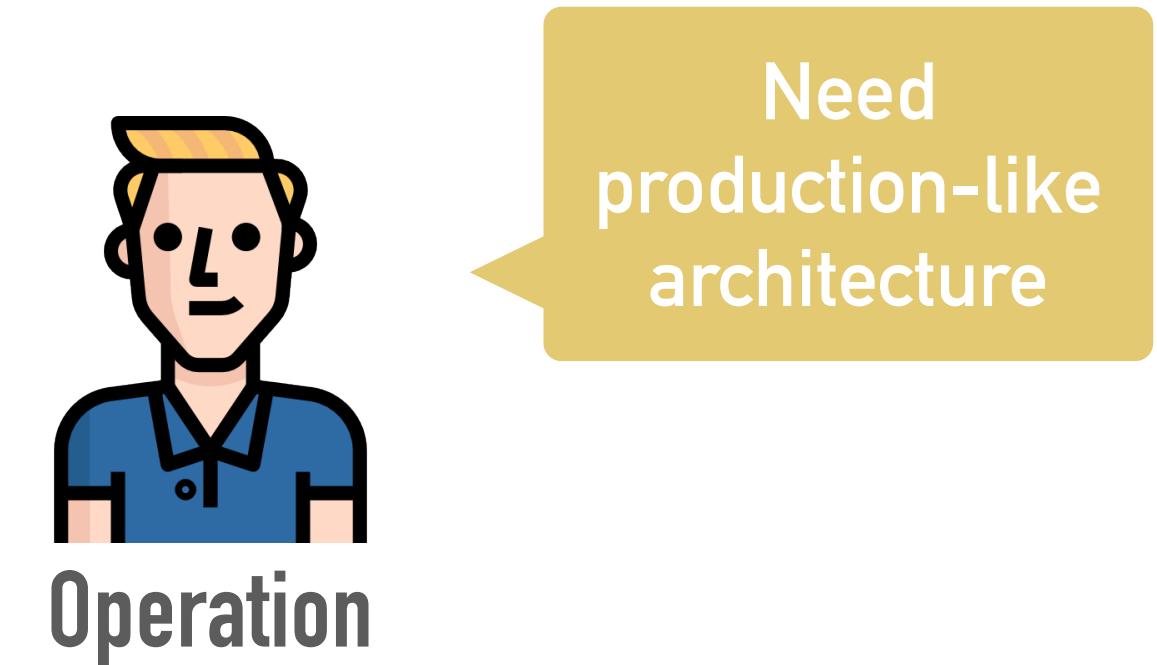
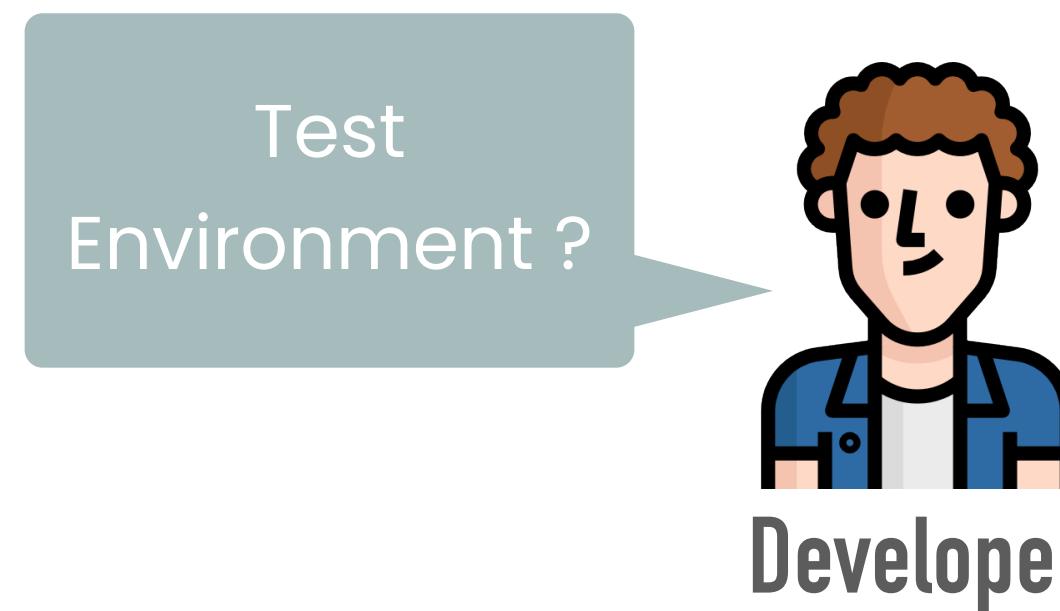


Operation

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



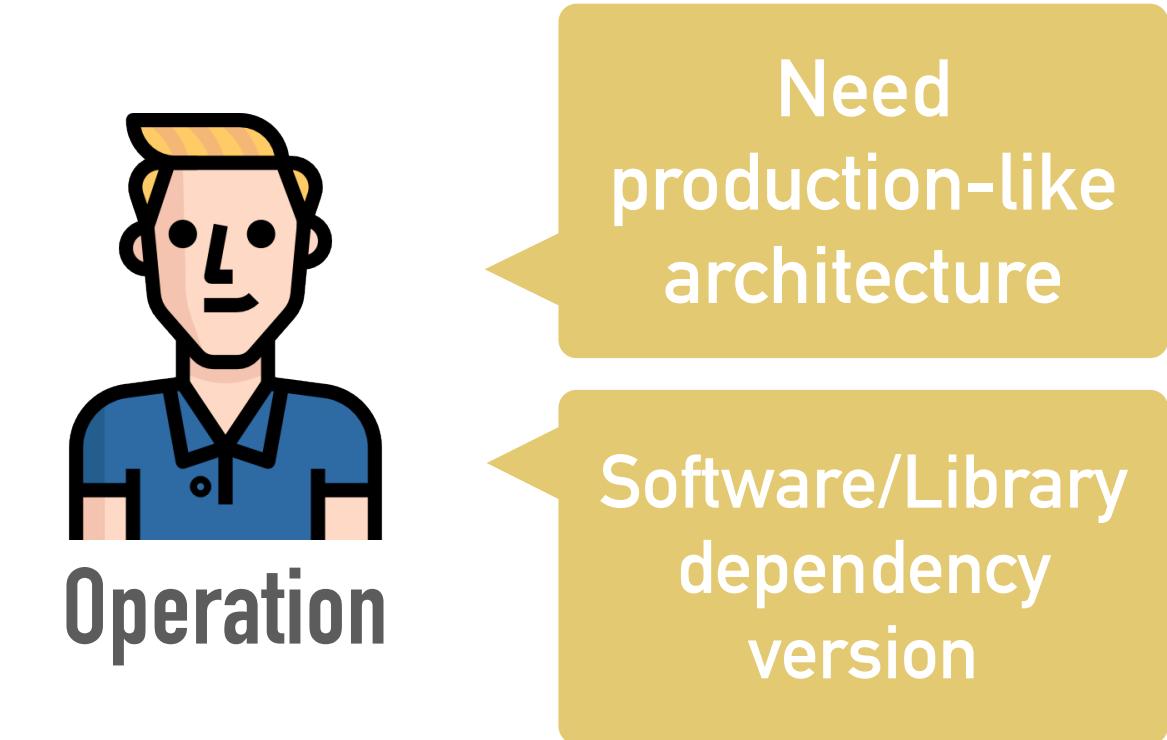
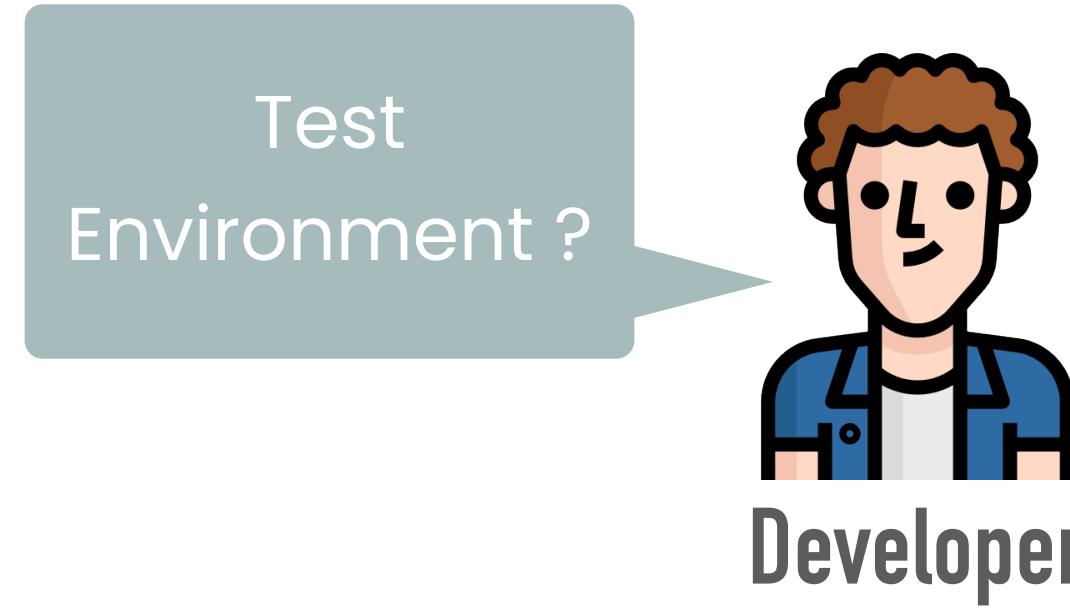
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OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



DEVELOPMENT

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES

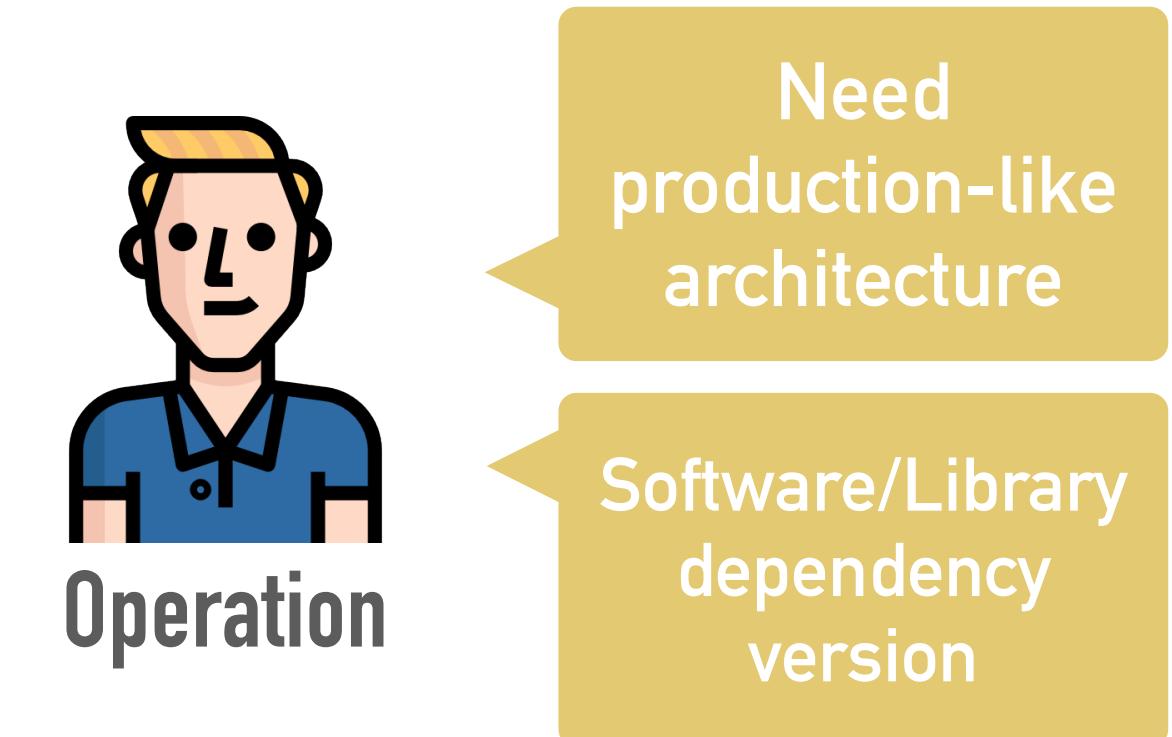
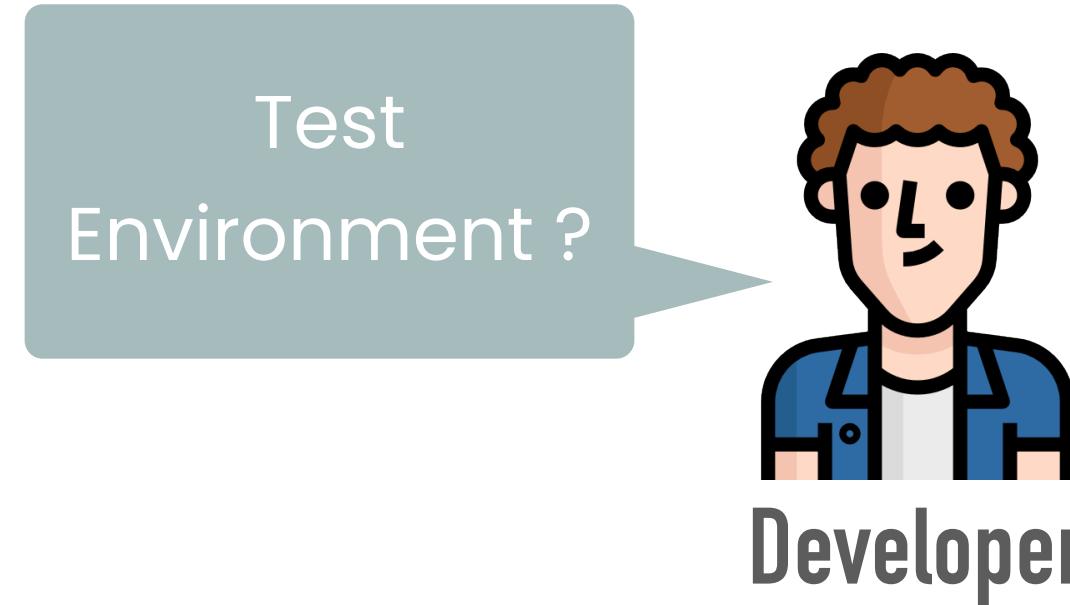


DEVELOPMENT



SYSTEM
INTEGRATION

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



DEVELOPMENT

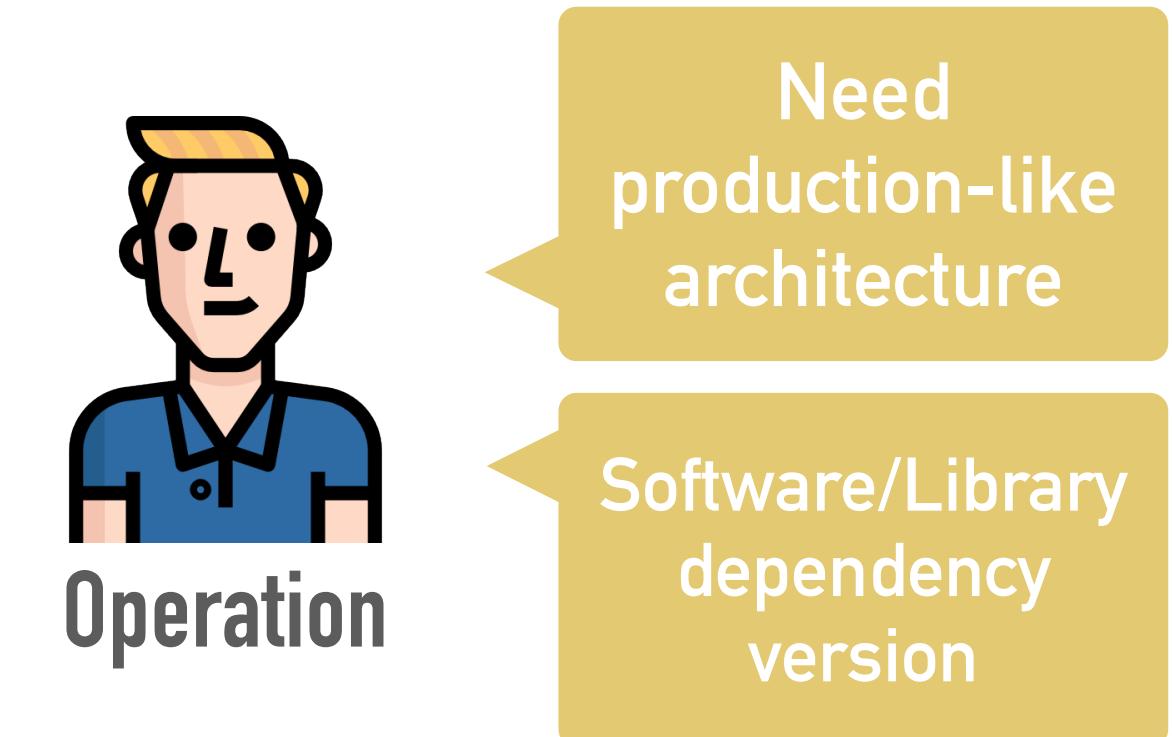
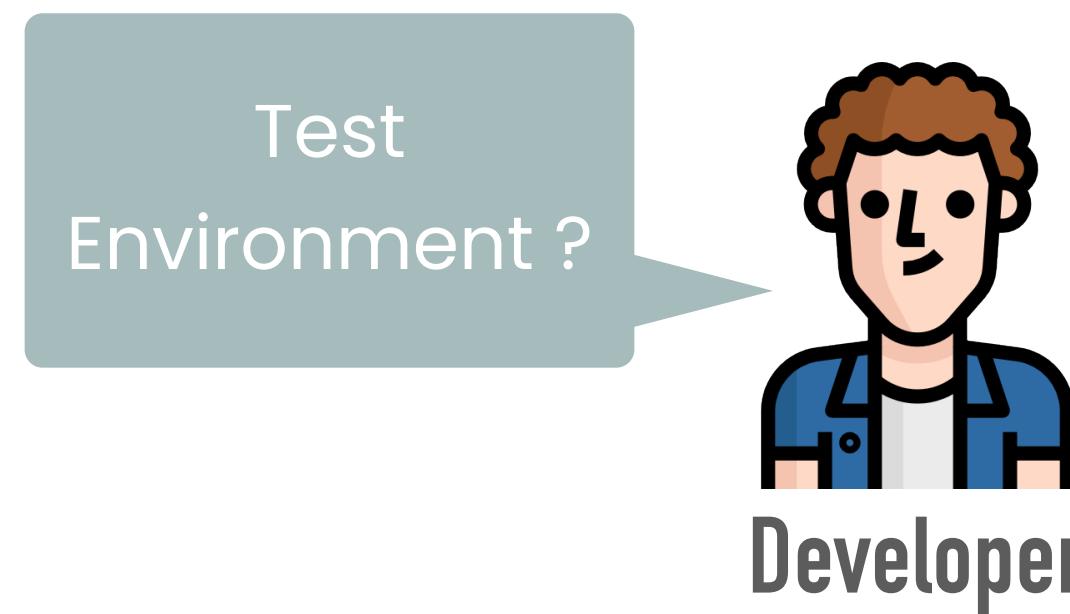


SYSTEM
INTEGRATION



UAT

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



DEVELOPMENT



SYSTEM
INTEGRATION



UAT

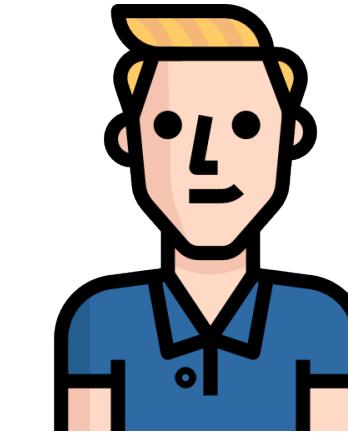


PRODUCTION

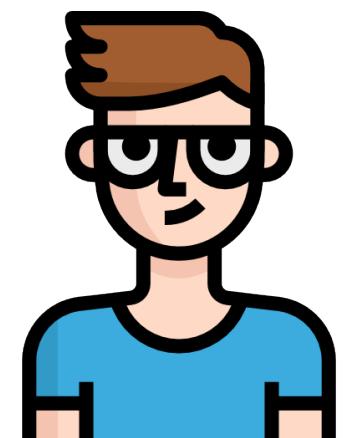
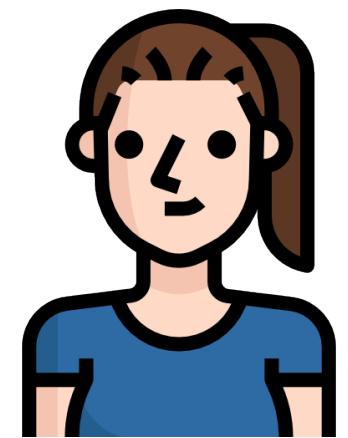
OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



Operation



OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



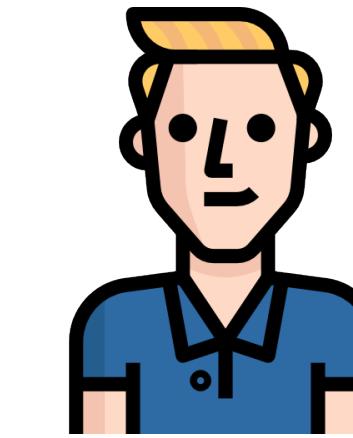
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INTEGRATION



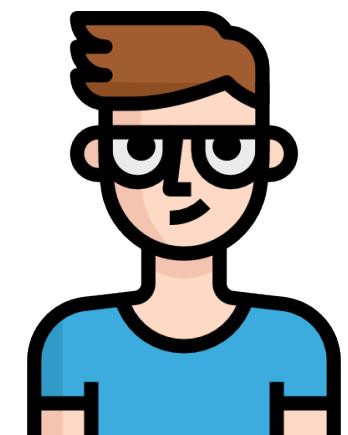
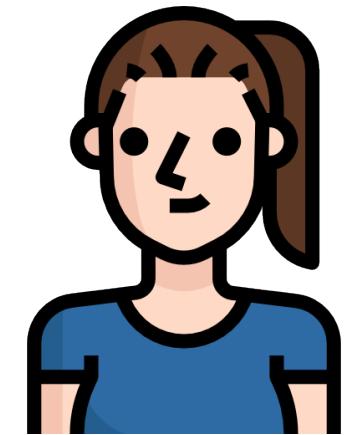
UAT



PRODUCTION



Operation



OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



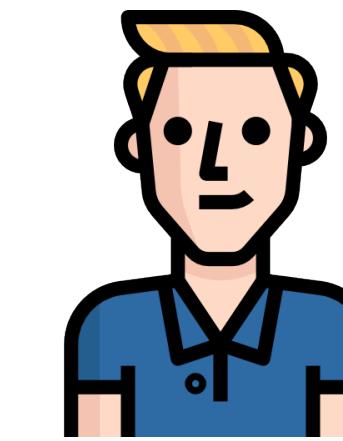
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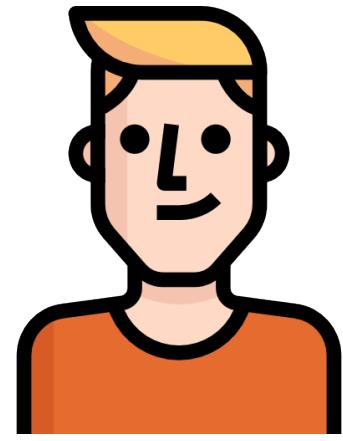
UAT



PRODUCTION



Operation



DEVELOPMENT



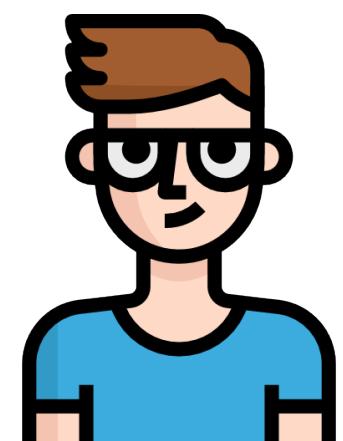
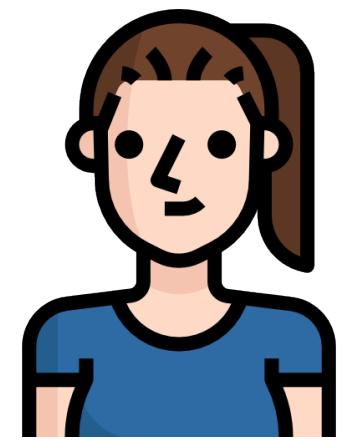
SYSTEM
INTEGRATION



UAT



PRODUCTION



OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



SYSTEM
INTEGRATION



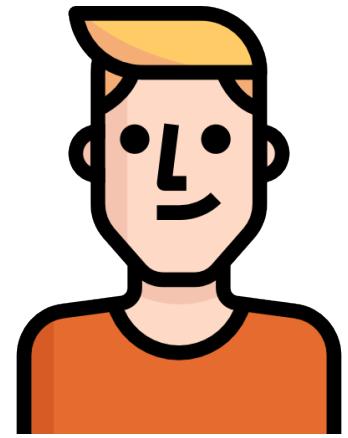
UAT



PRODUCTION



Operation



DEVELOPMENT



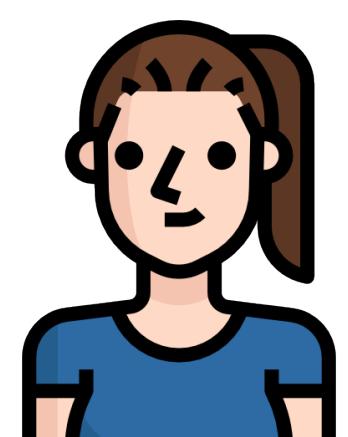
SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



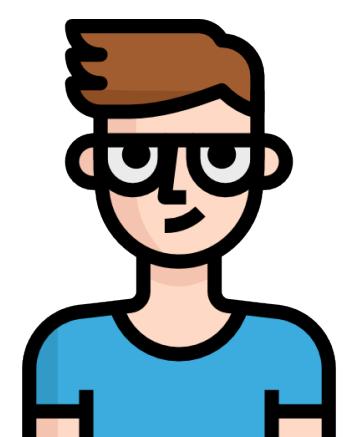
SYSTEM
INTEGRATION



UAT



PRODUCTION



OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



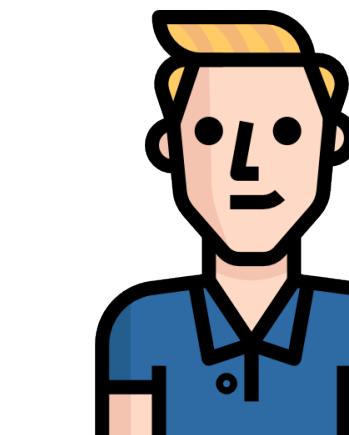
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INTEGRATION



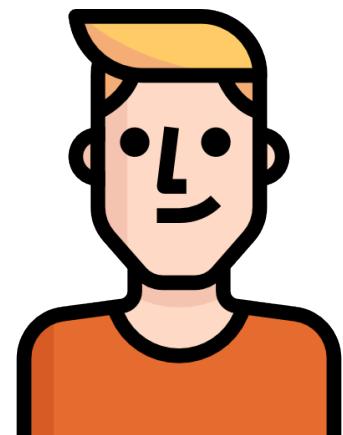
UAT



PRODUCTION



Operation



DEVELOPMENT



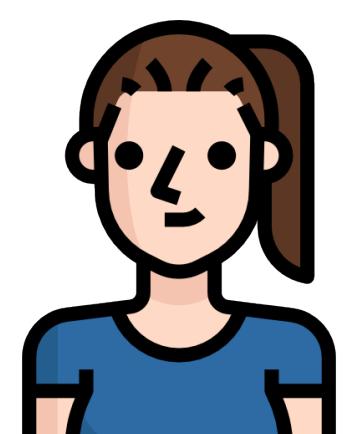
SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



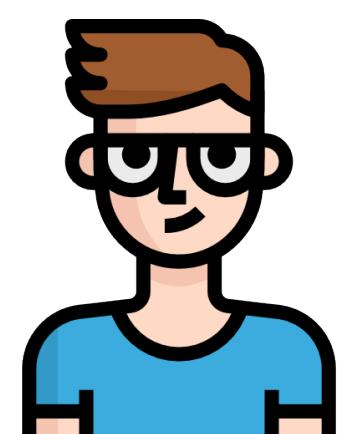
SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



SYSTEM
INTEGRATION



UAT

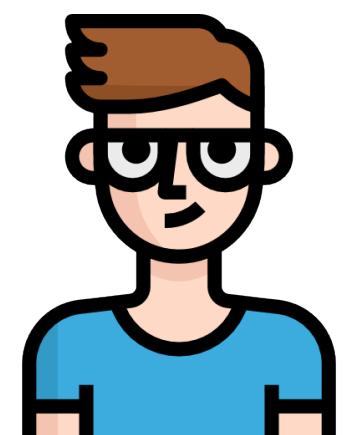
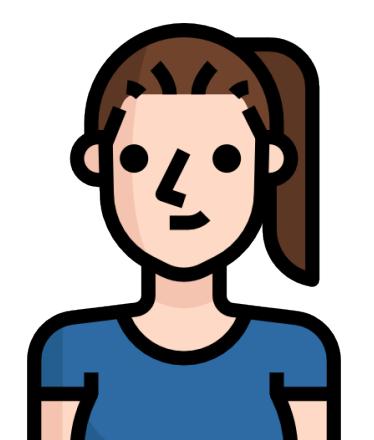


PRODUCTION

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



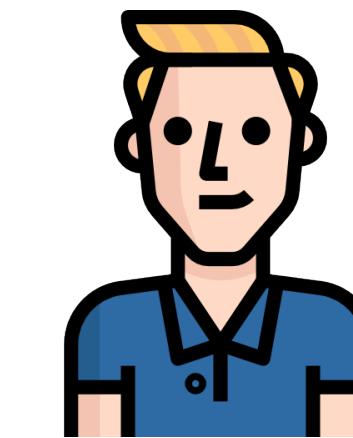
SYSTEM
INTEGRATION



UAT



PRODUCTION



Operation

I want stable

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



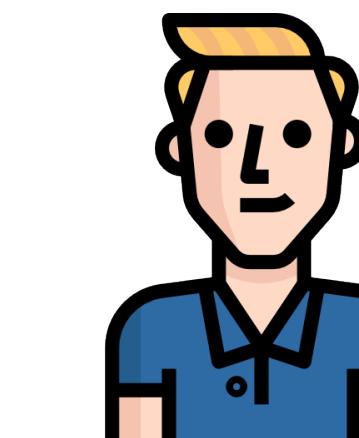
SYSTEM
INTEGRATION



UAT

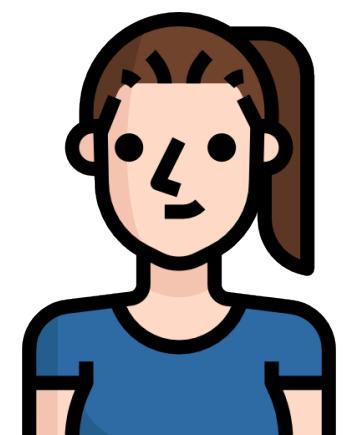


PRODUCTION



Operation

Update software/
security patch ?
I want stable



DEVELOPMENT



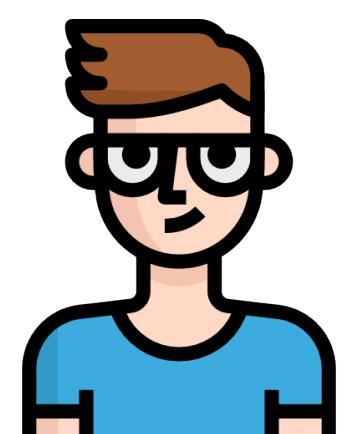
SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



SYSTEM
INTEGRATION



UAT



PRODUCTION

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



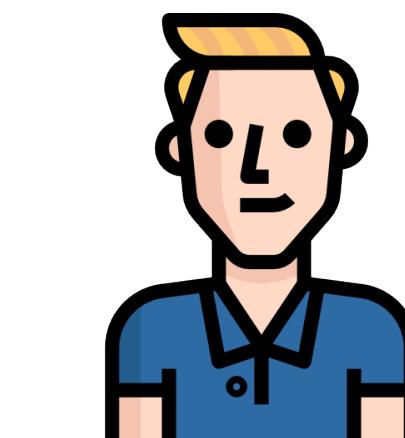
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UAT



PRODUCTION

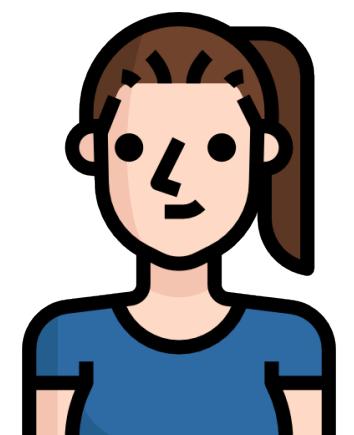


Operation

Update software/
security patch ?

I want stable

Is it run properly ?



DEVELOPMENT



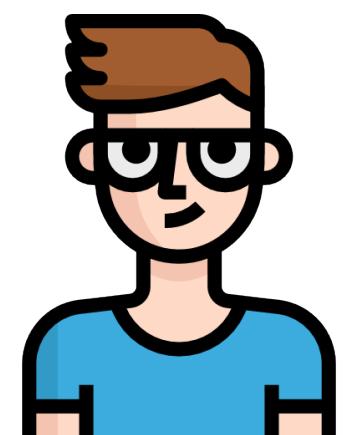
SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



SYSTEM
INTEGRATION



UAT



PRODUCTION

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



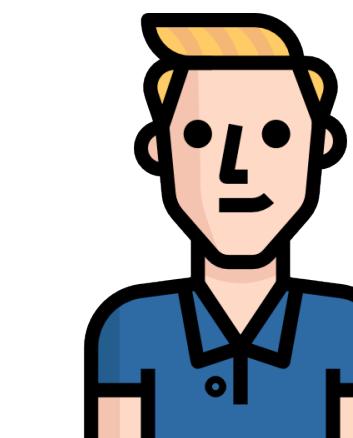
SYSTEM
INTEGRATION



UAT



PRODUCTION



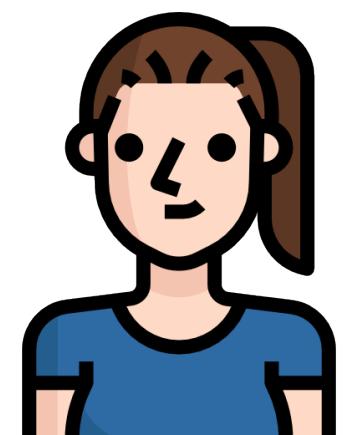
Operation

Update software/
security patch ?

I want stable

Is it run properly ?

How I monitoring
this ?



DEVELOPMENT



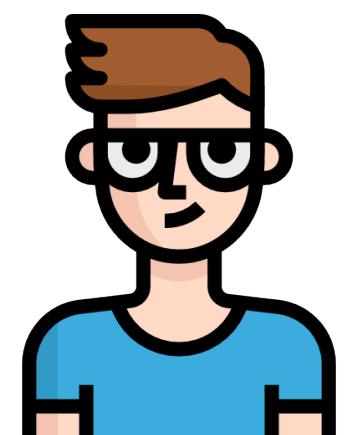
SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



SYSTEM
INTEGRATION



UAT



PRODUCTION

OLD STORY ABOUT DEVELOPER AND OPERATION - SOFTWARE/LIBRARY ISSUES



Developer



DEVELOPMENT



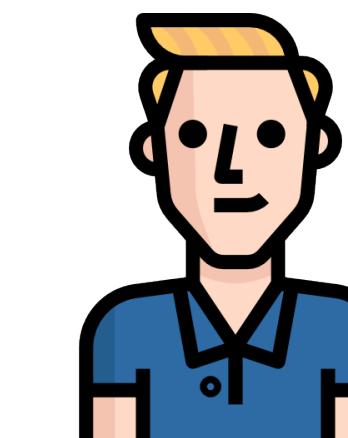
SYSTEM
INTEGRATION



UAT



PRODUCTION



Operation

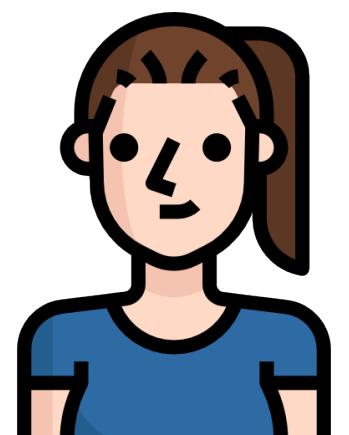
Update software/
security patch ?

I want stable

Is it run properly ?

How I monitoring
this ?

Is it secure ?



DEVELOPMENT



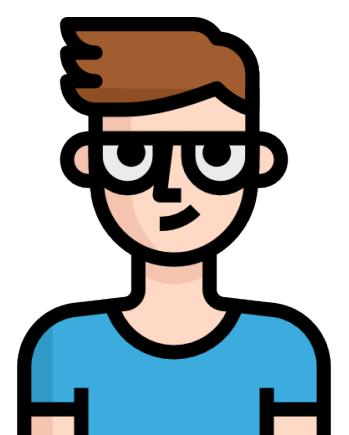
SYSTEM
INTEGRATION



UAT



PRODUCTION



DEVELOPMENT



SYSTEM
INTEGRATION



UAT

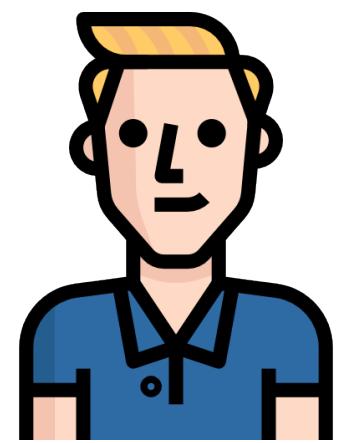


PRODUCTION

OLD STORY ABOUT DEVELOPER AND OPERATION - APP/INFRA COMPLEXITIES



Developer



Operation

OLD STORY ABOUT DEVELOPER AND OPERATION - APP/INFRA COMPLEXITIES



Developer

Multiplicity of Stacks

Static website
nginx 1.5 + modsecurity + openssl + bootstrap 2

Background workers
Python 3.0 + celery + pyredis + libcurl + ffmpeg + libopenpva + phantomjs

User DB
postgresql + pgv8 + v8

Queue
Redis + redis-sentinel

Analytics DB
hadoop + hive + thrift + OpenIDK

Web frontend
Ruby + Rails + sass + Unicorn

API endpoint
Python 2.7 + Flask + pyredis + celery + psycopg + postgresql-client

Do services and apps interact appropriately?

Multiplicity of hardware environments



Development VM

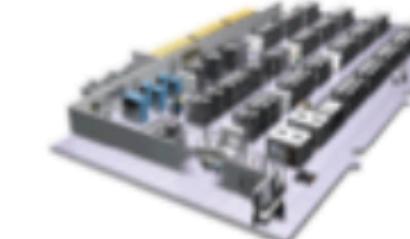


QA server

Customer Data Center



Public Cloud



Production Cluster

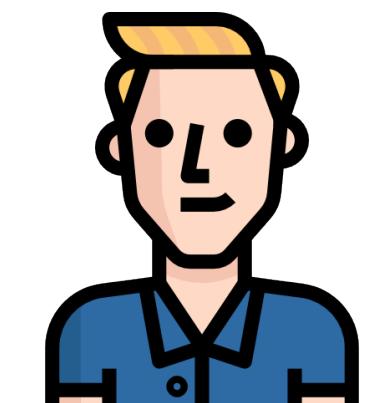


Disaster recovery



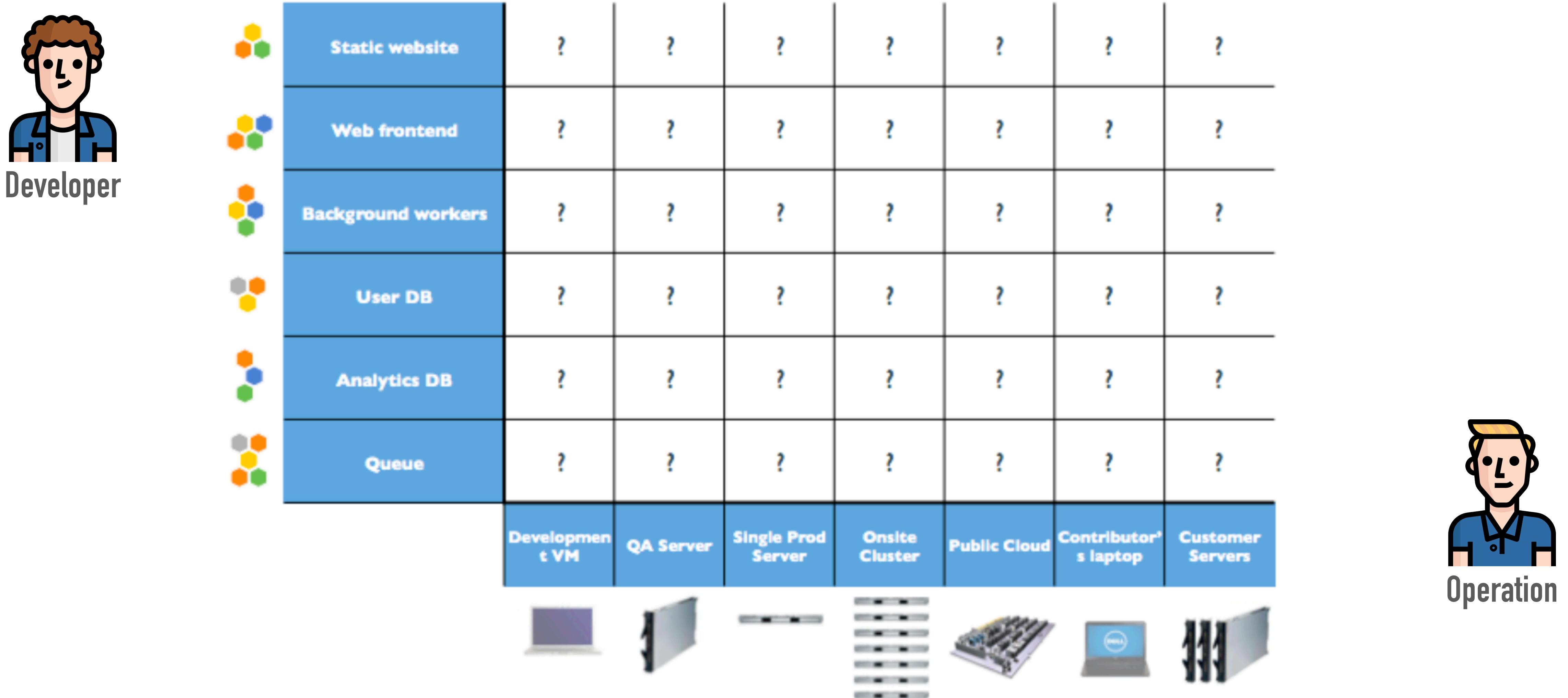
Contributor's laptop

Can I migrate smoothly and quickly?



Operation

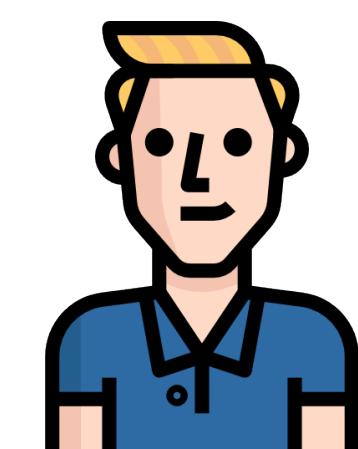
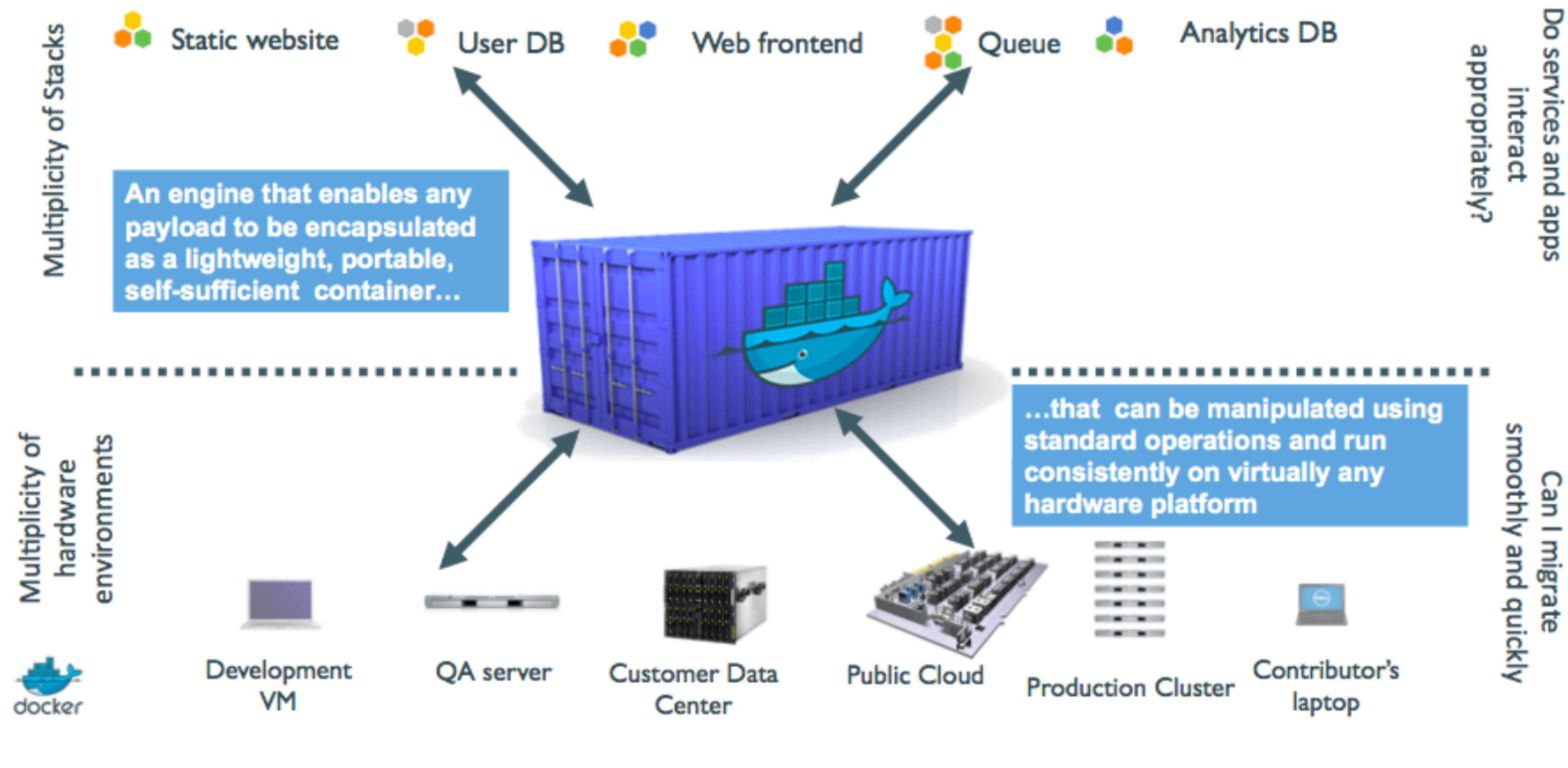
OLD STORY ABOUT DEVELOPER AND OPERATION - APP/INFRA COMPLEXITIES



OLD STORY ABOUT DEVELOPER AND OPERATION - STANDARD CONTAINER

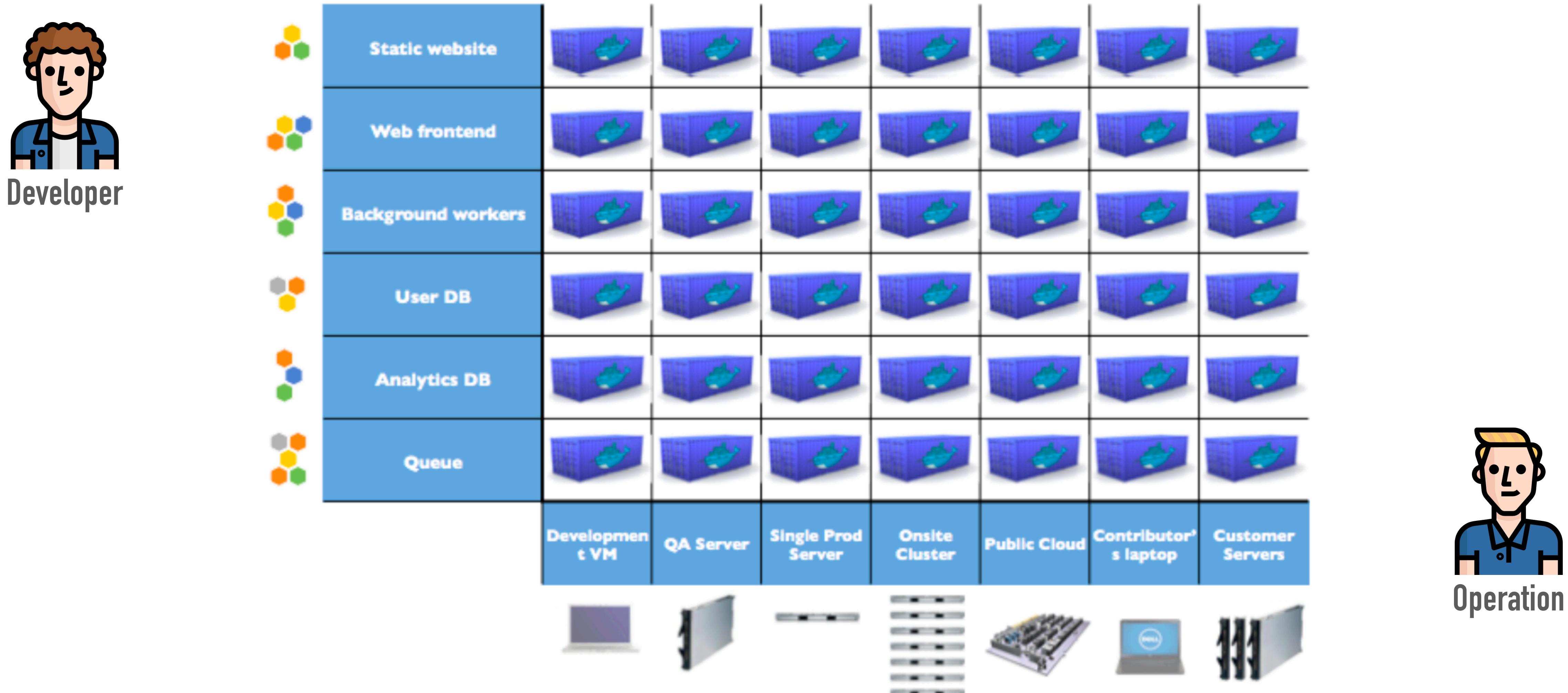


Developer



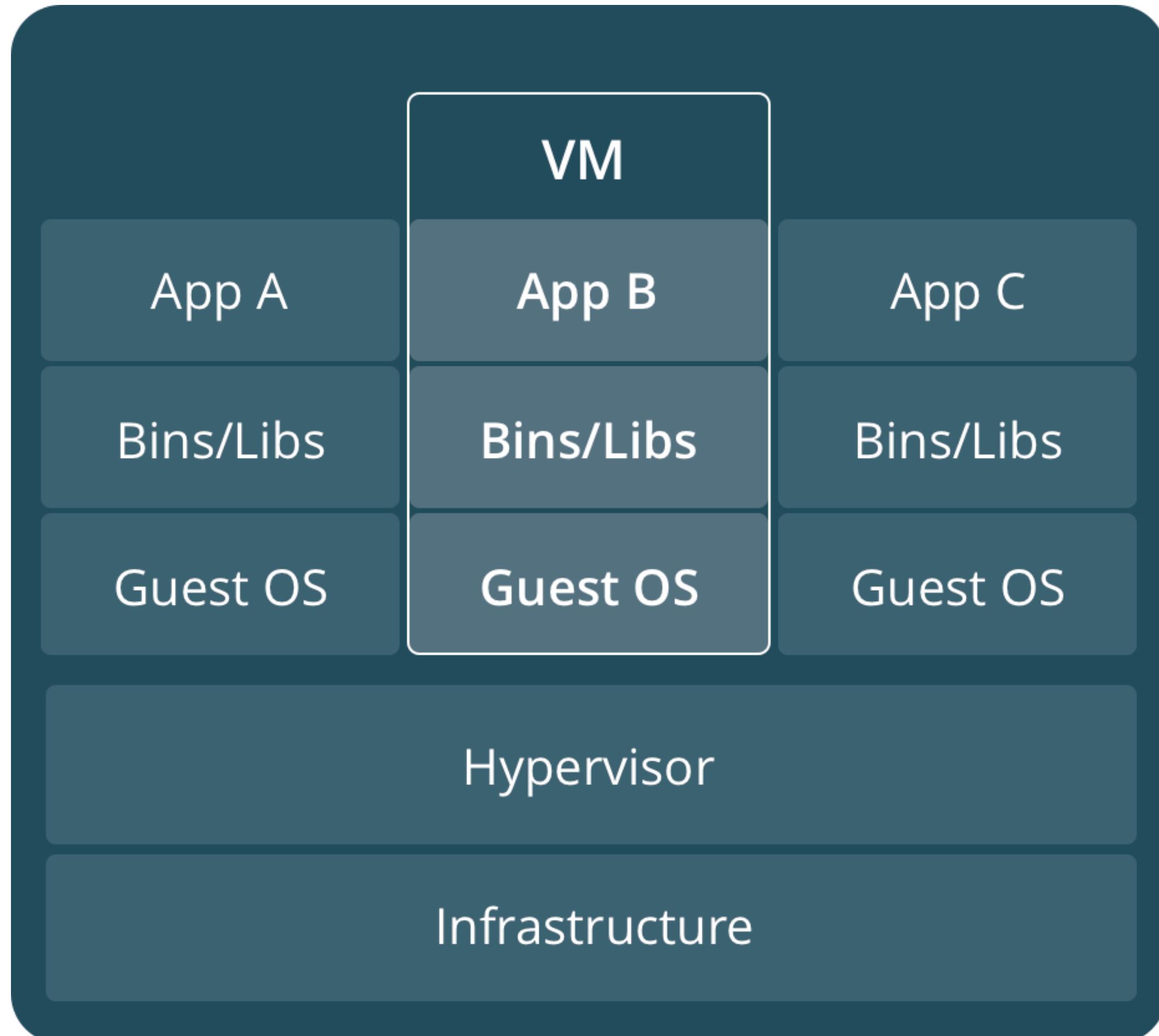
Operation

DEVELOPER AND OPERATION - SOLUTION WITH CONTAINER

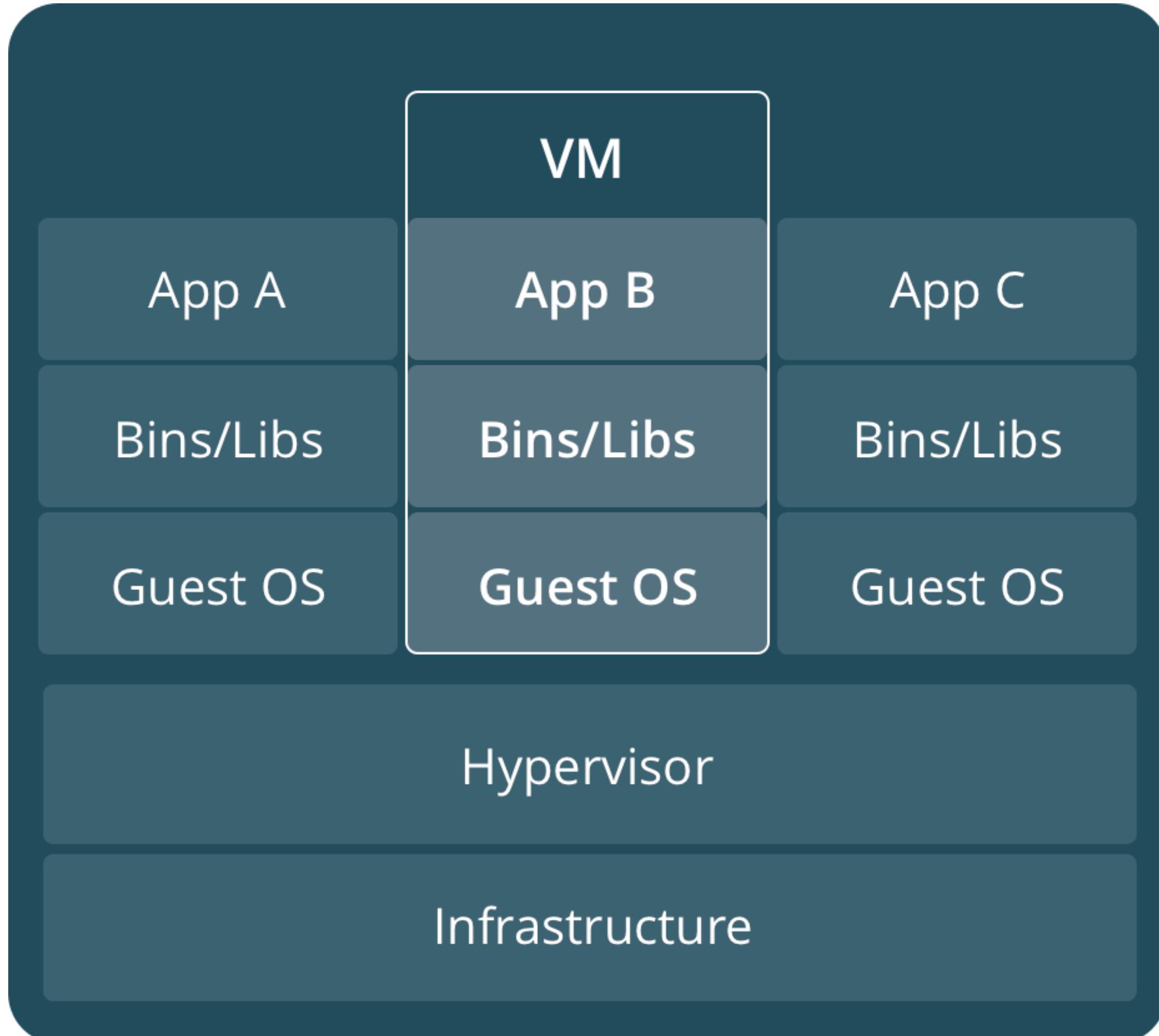


DOCKER VS VIRTUAL MACHINE

VIRTUAL MACHINE

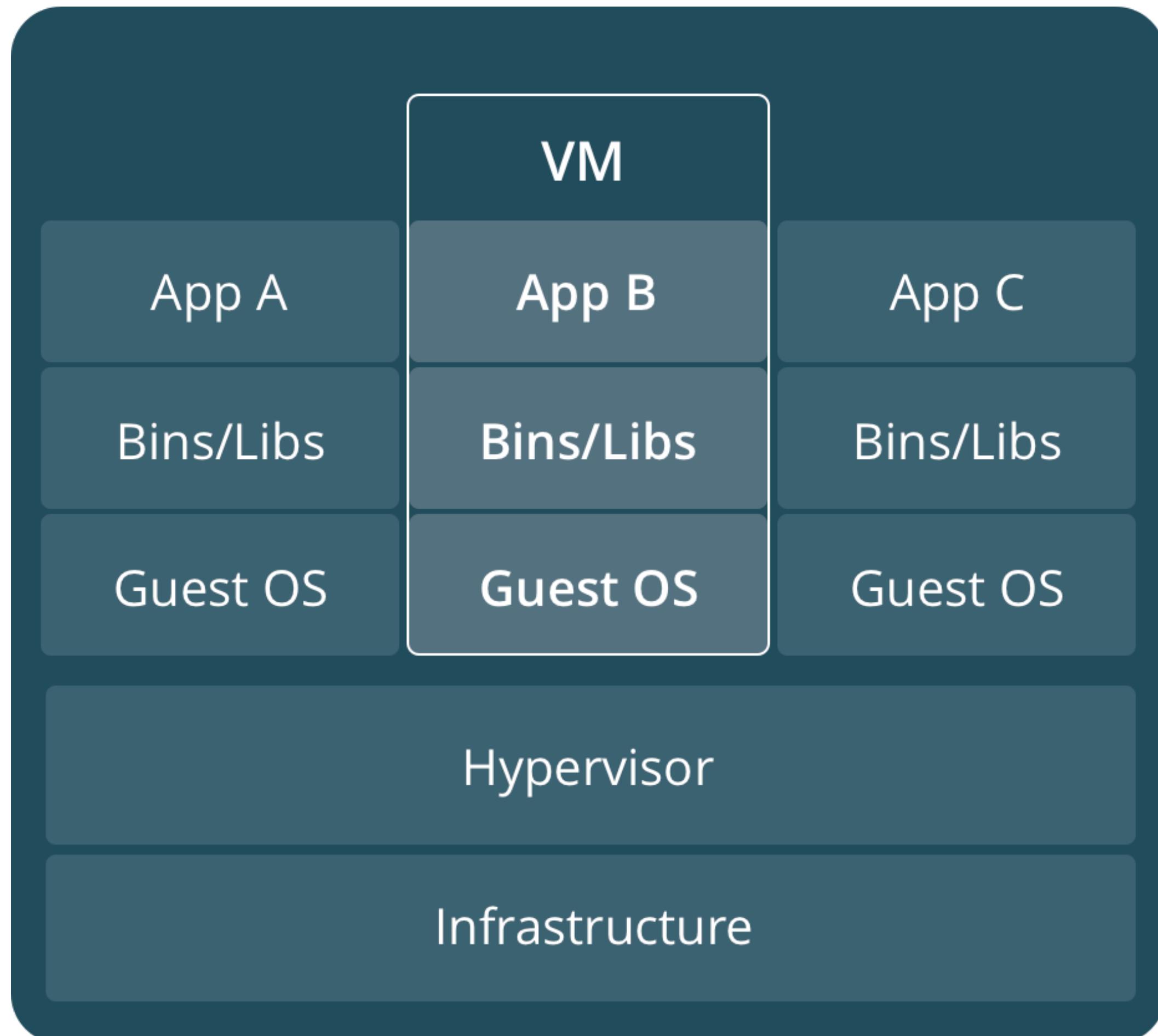


VIRTUAL MACHINE



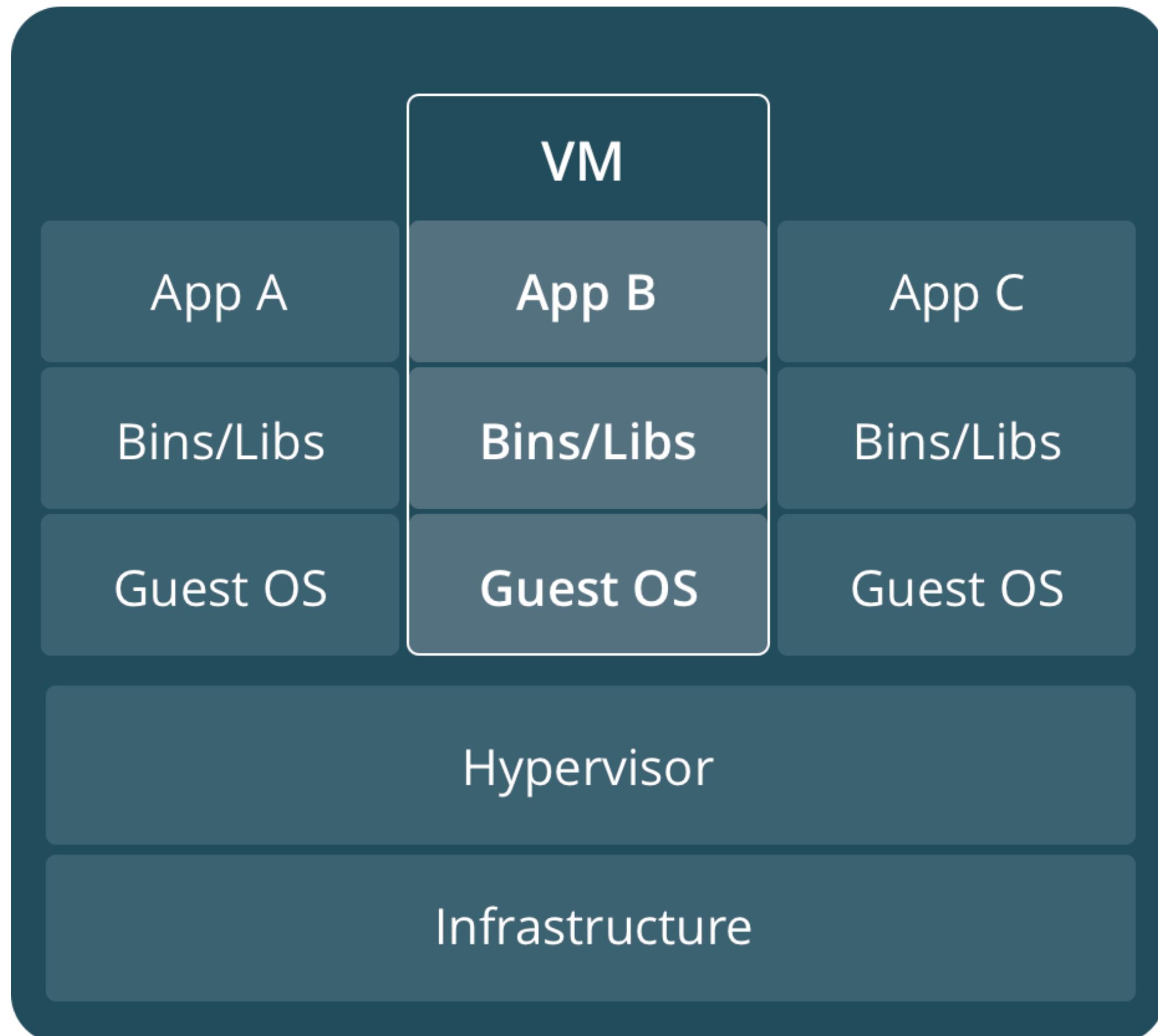
- Abstraction of physical hardware

VIRTUAL MACHINE



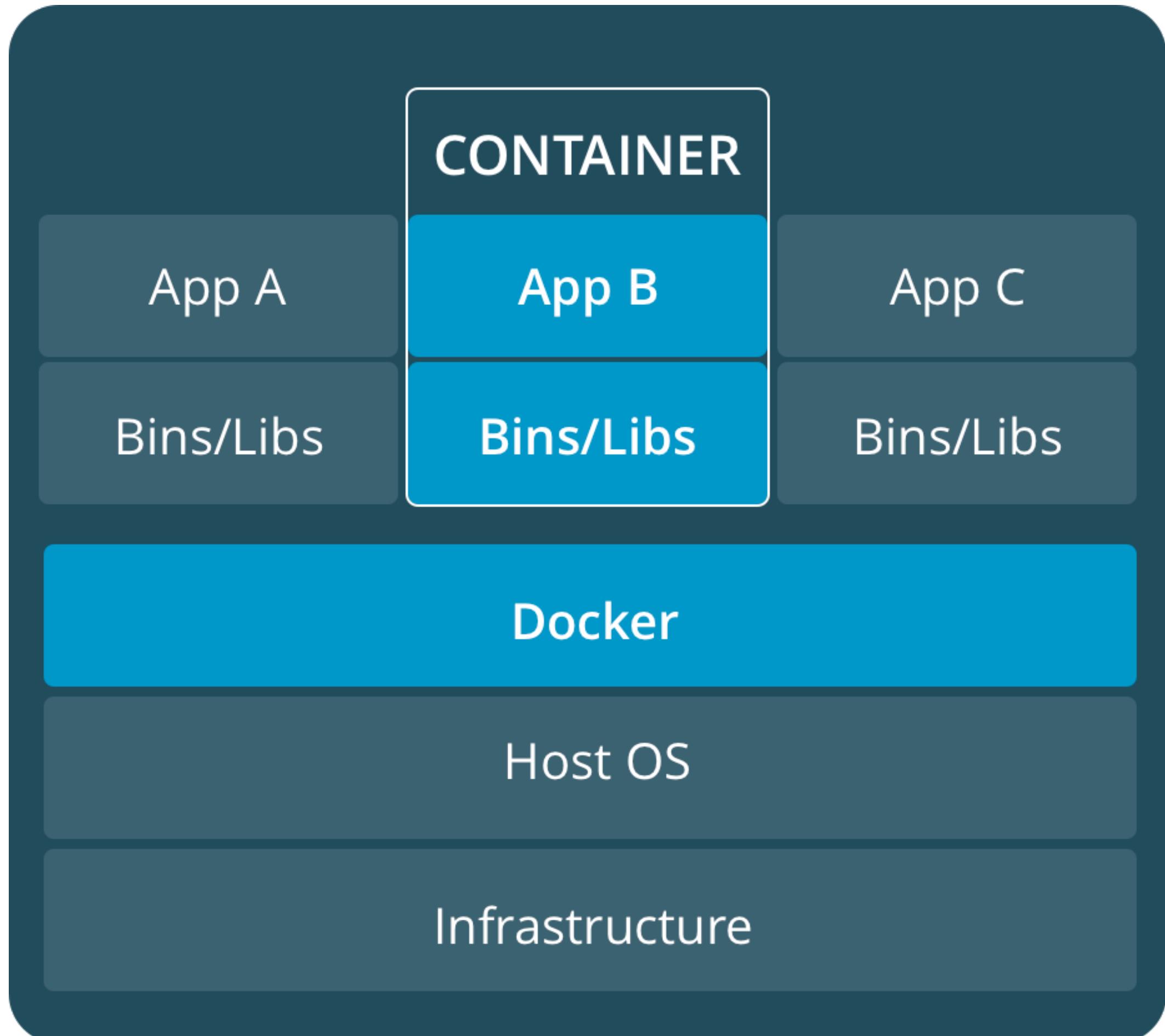
- Abstraction of physical hardware
- Full copy of OS and libraries

VIRTUAL MACHINE

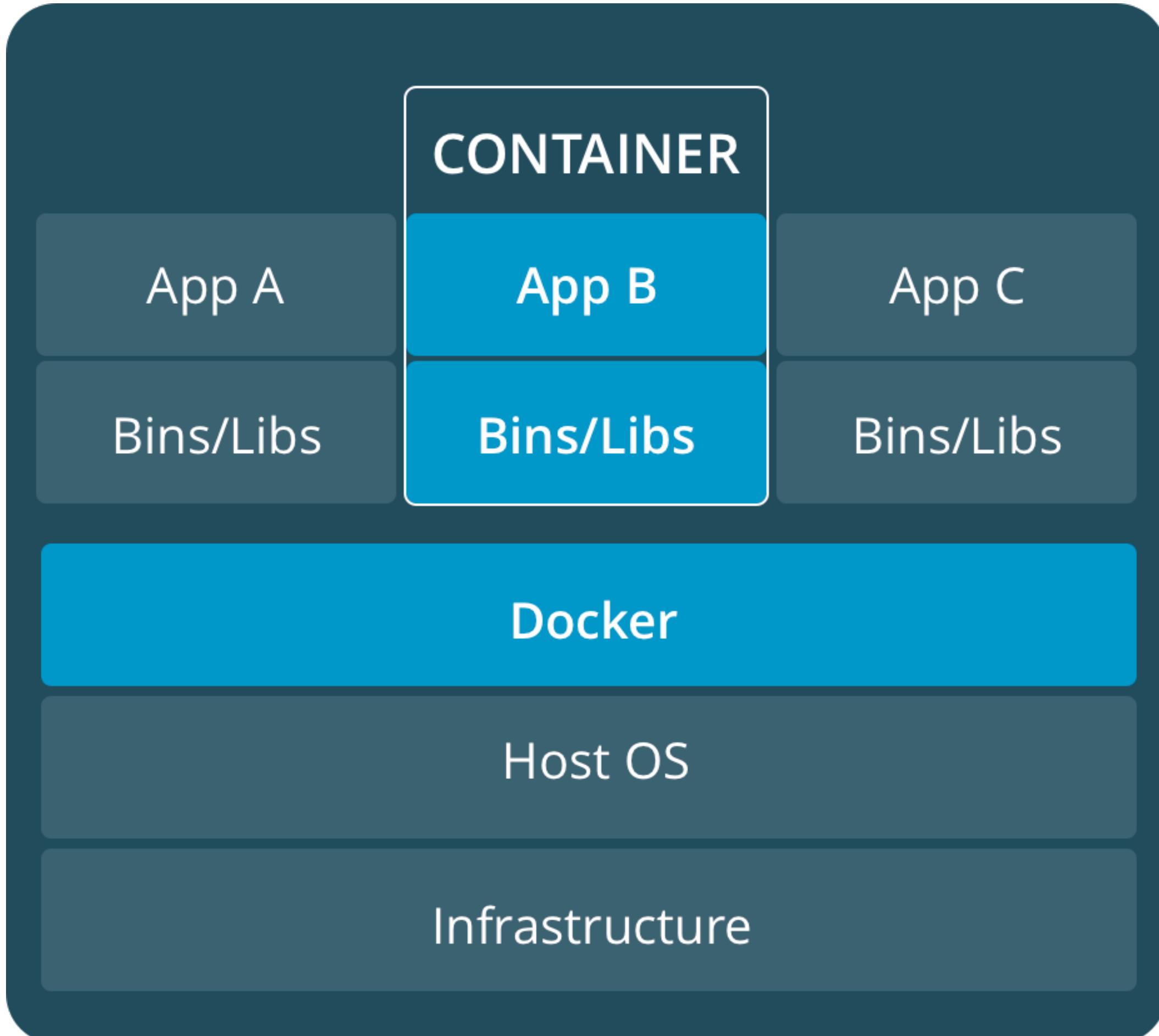


- Abstraction of physical hardware
- Full copy of OS and libraries
- Slow to boot

CONTAINER

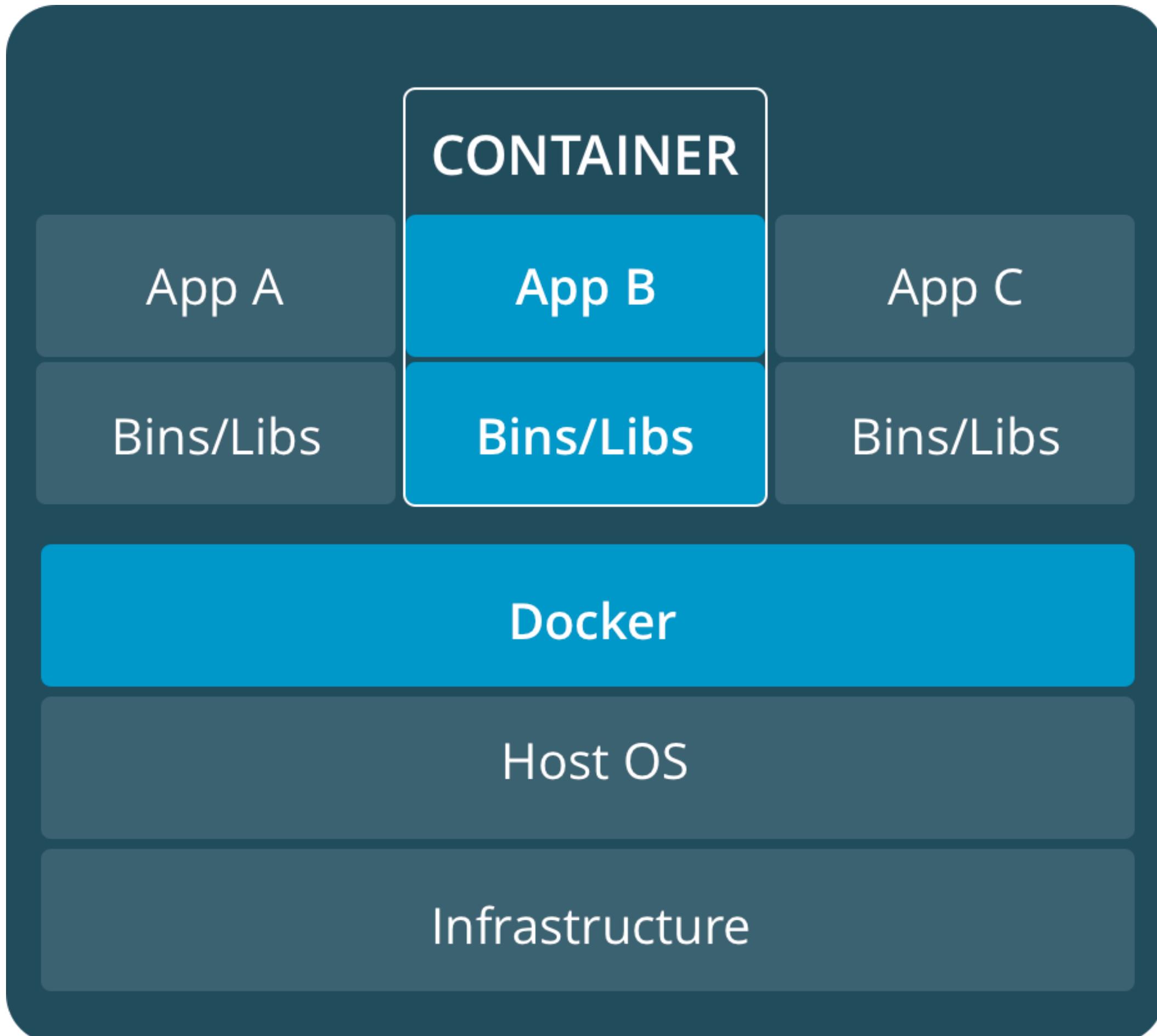


CONTAINER



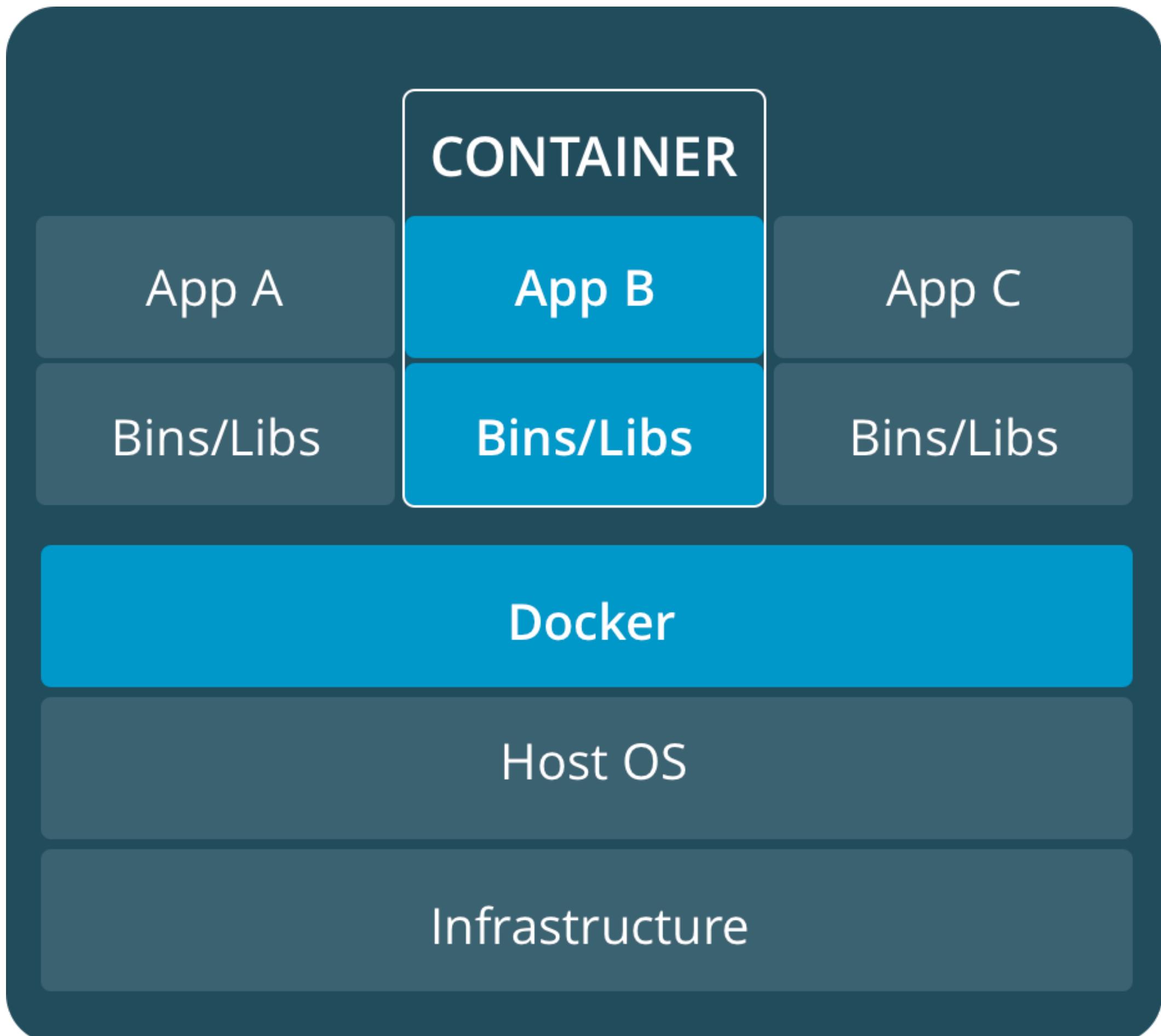
- Abstraction at the app level

CONTAINER



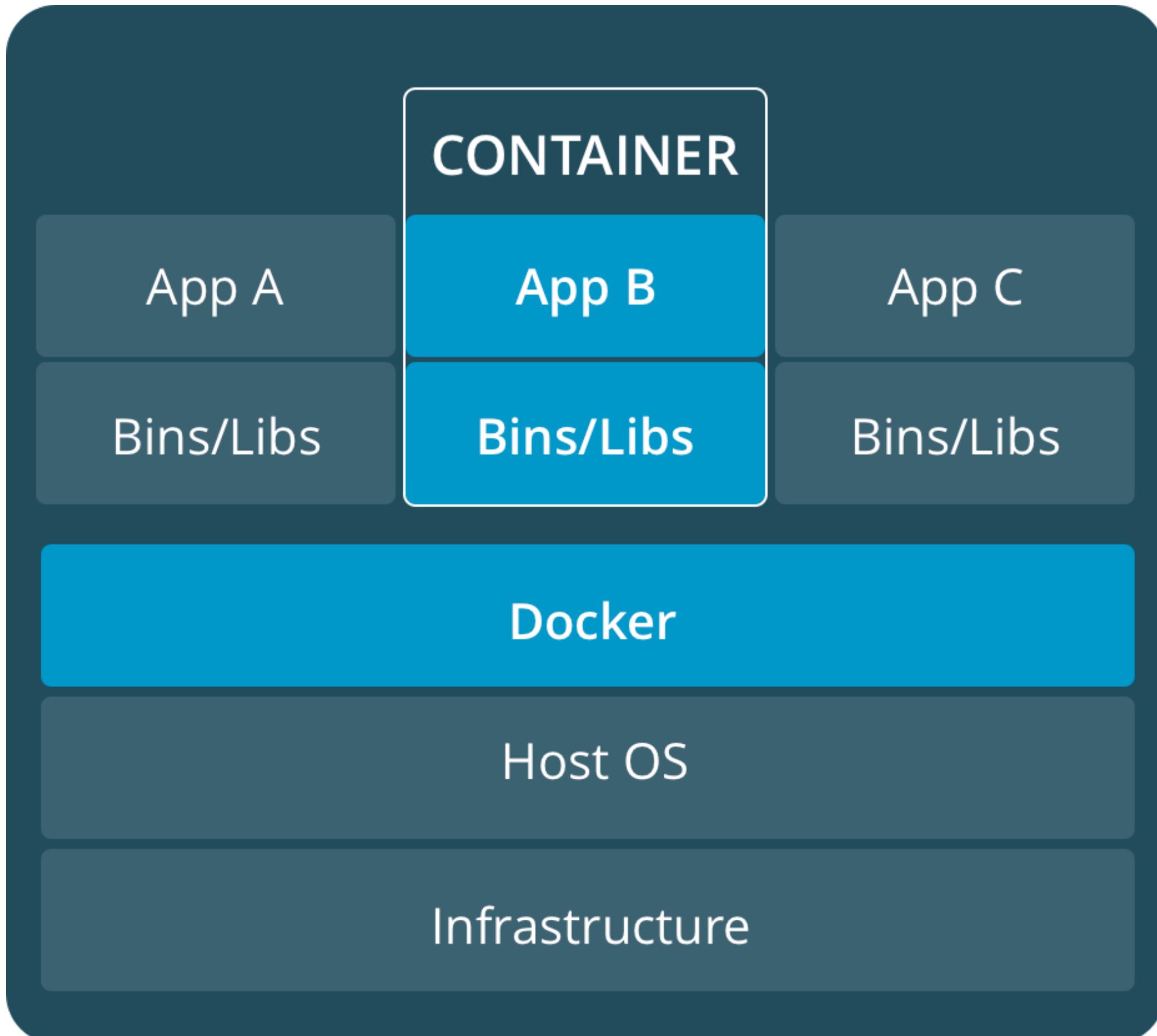
- Abstraction at the app level
- Share OS kernel

CONTAINER



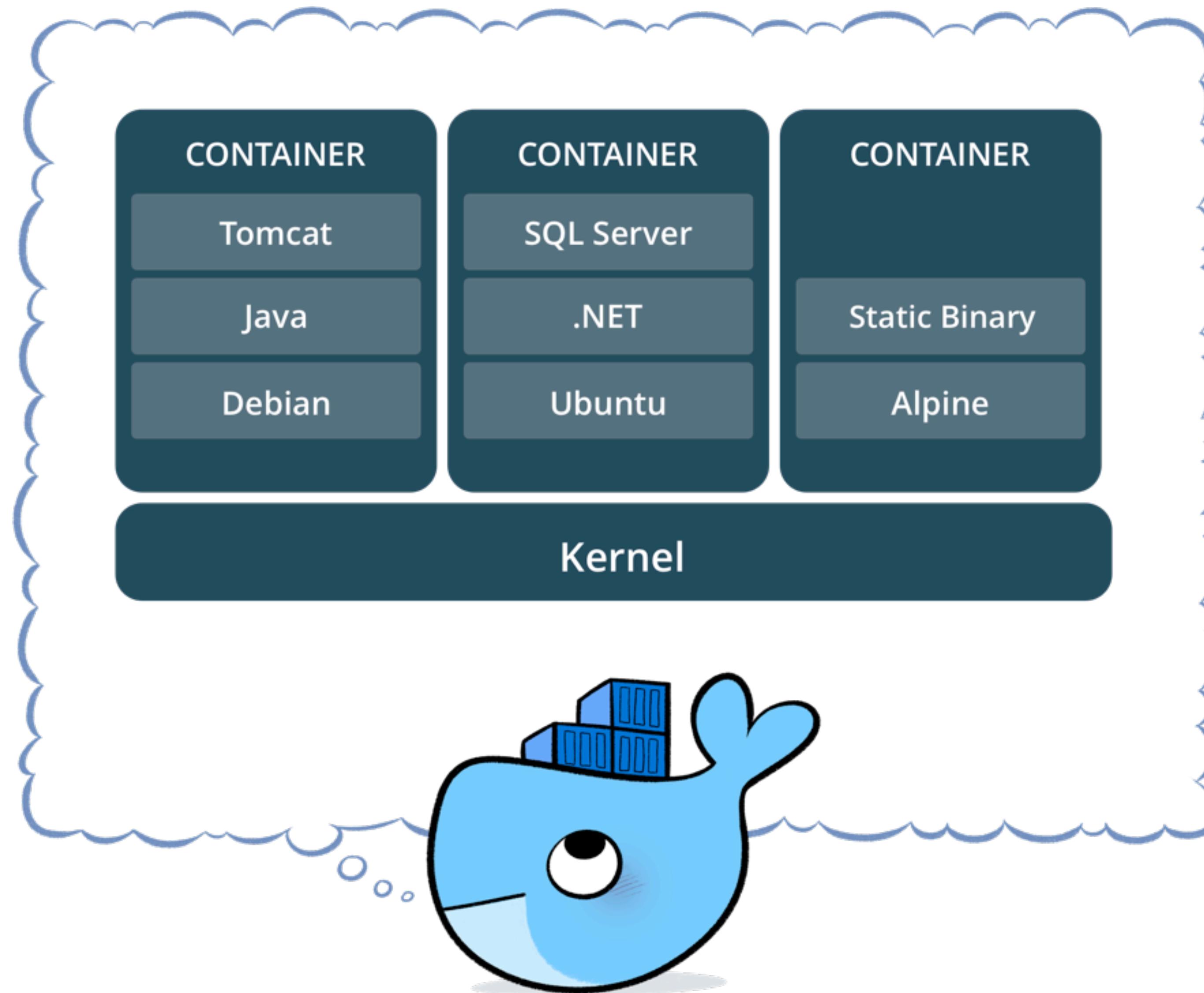
- Abstraction at the app level
- Share OS kernel
- Isolate process

CONTAINER

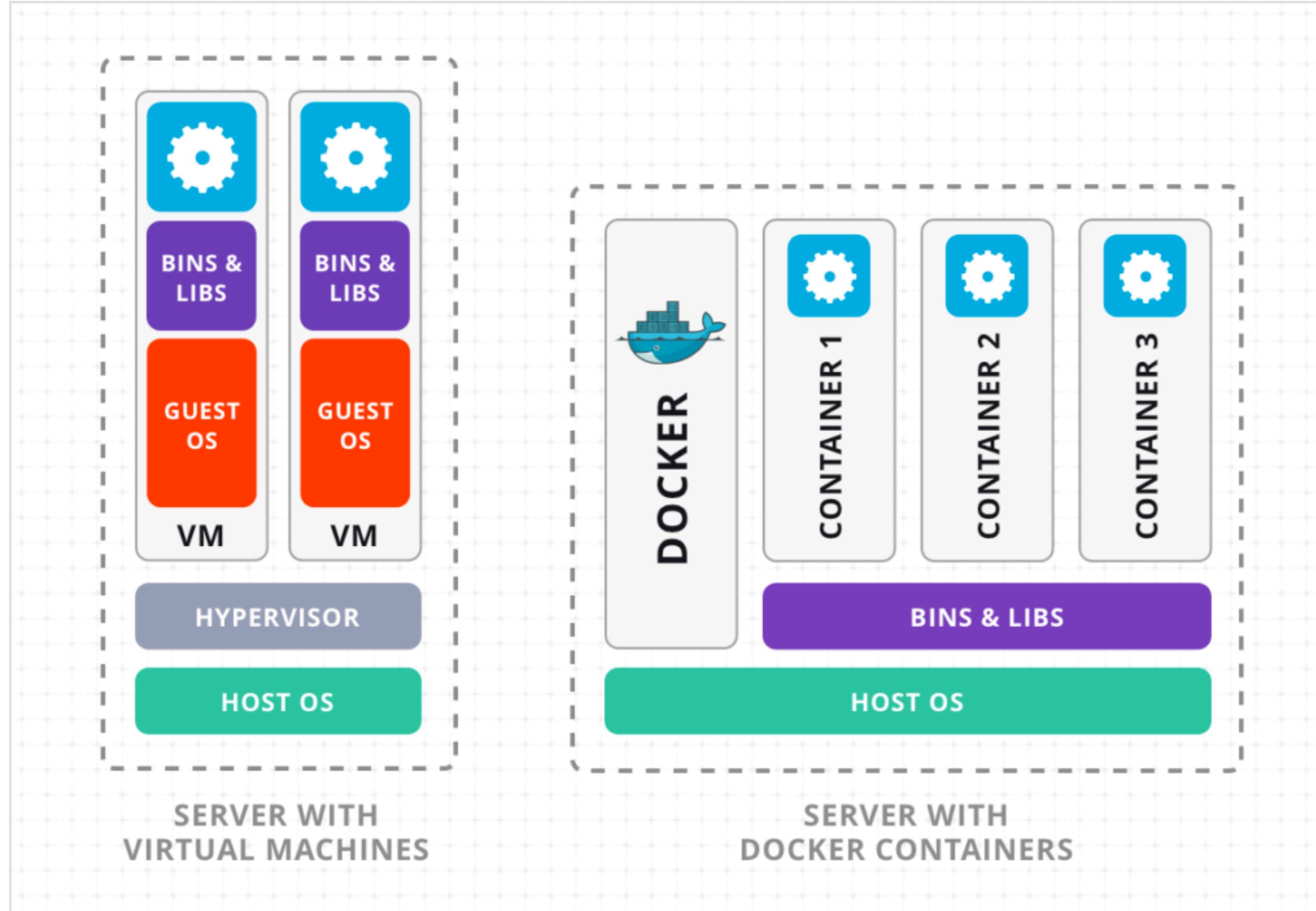


- Abstraction at the app level
- Share OS kernel
- Isolate process
- Less space than Virtual Machine

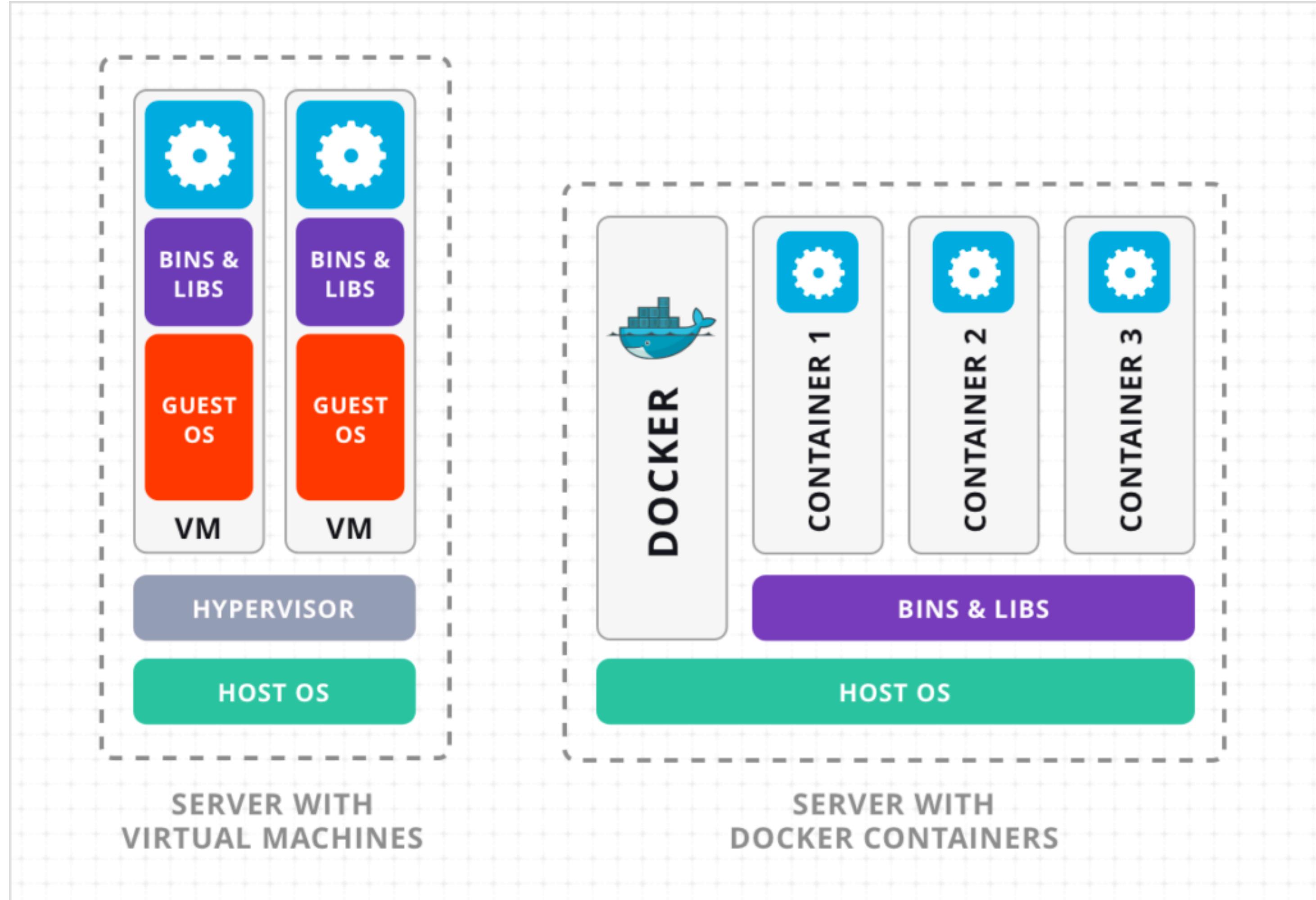
DOCKER



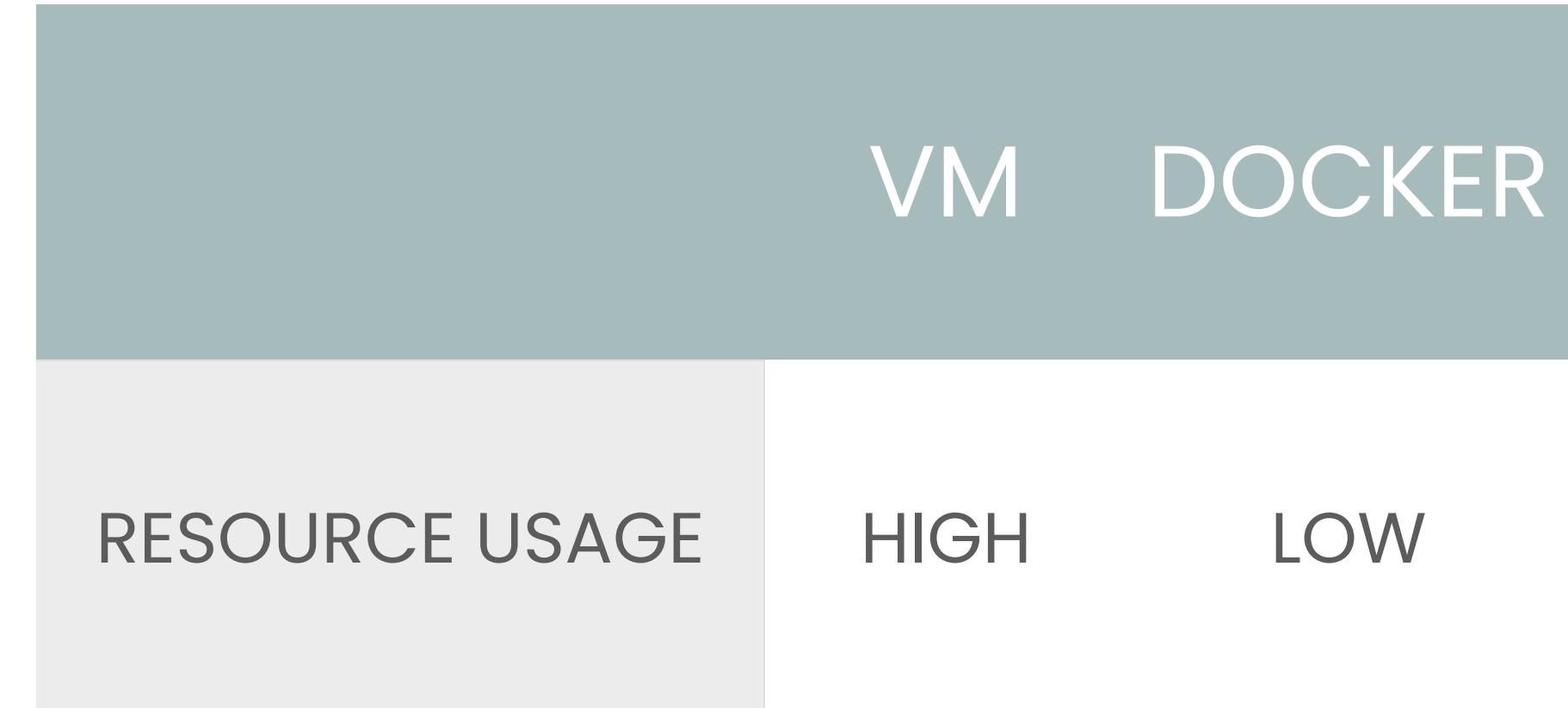
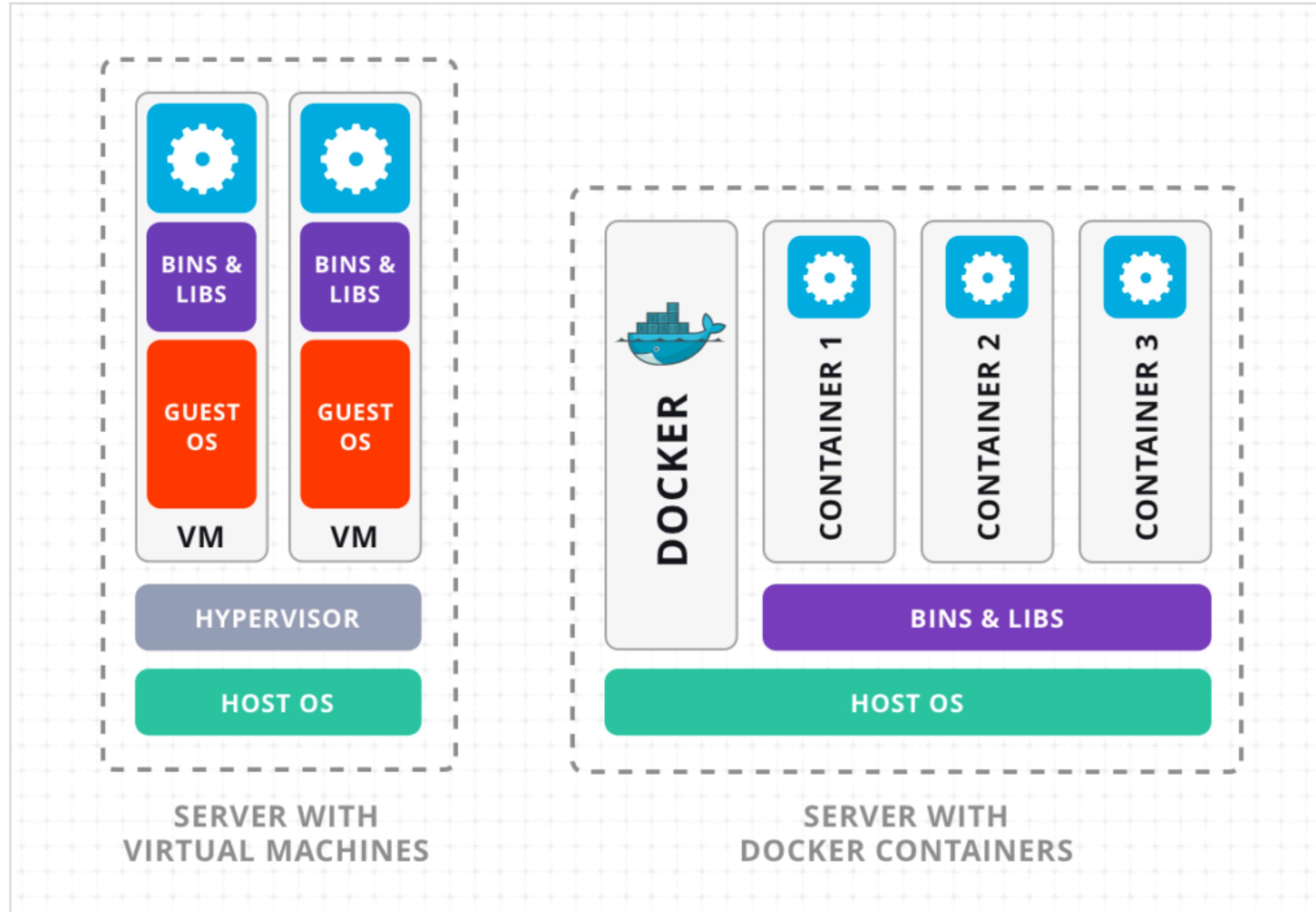
CONTAINER VS VIRTUAL MACHINE



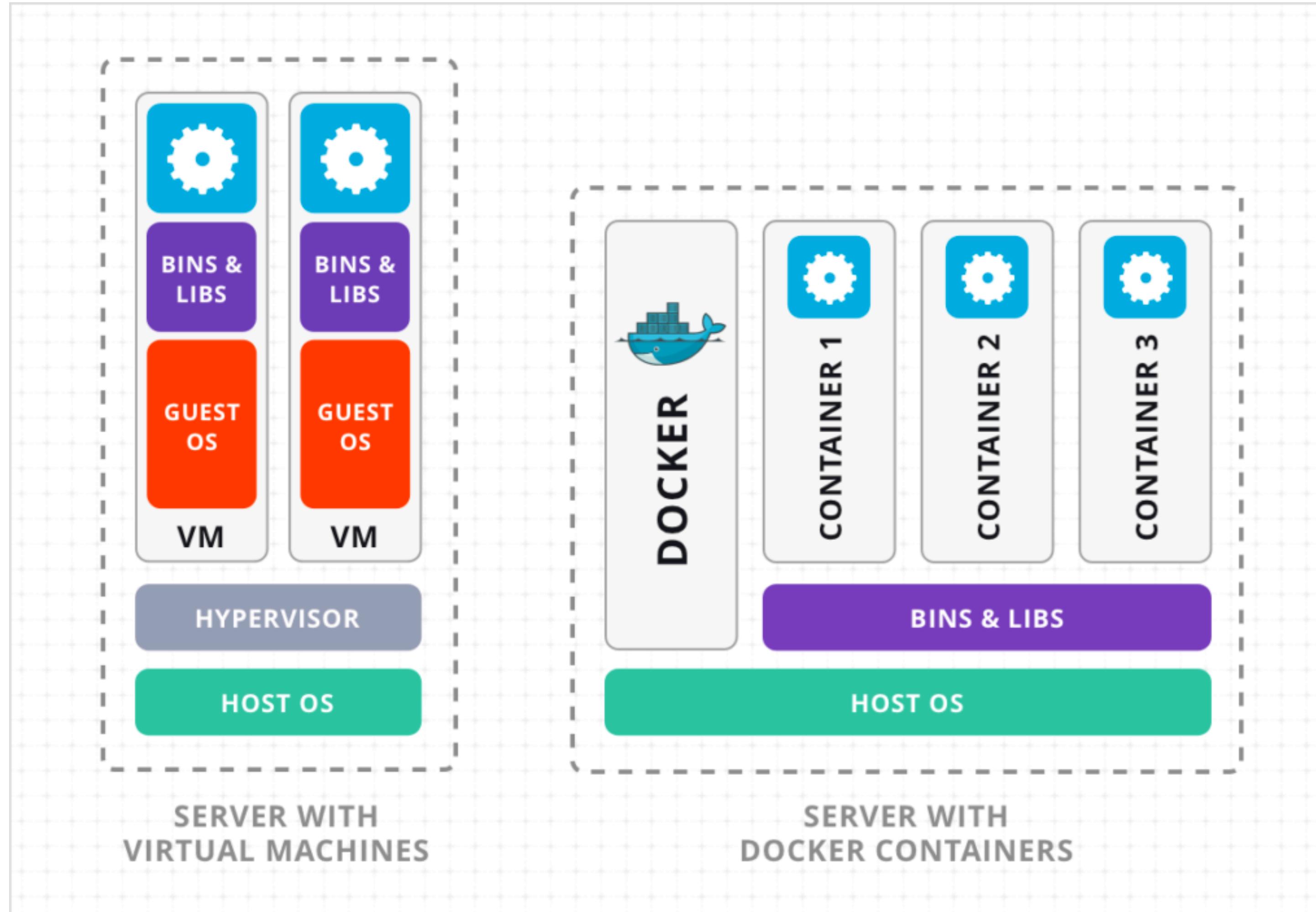
CONTAINER VS VIRTUAL MACHINE



CONTAINER VS VIRTUAL MACHINE

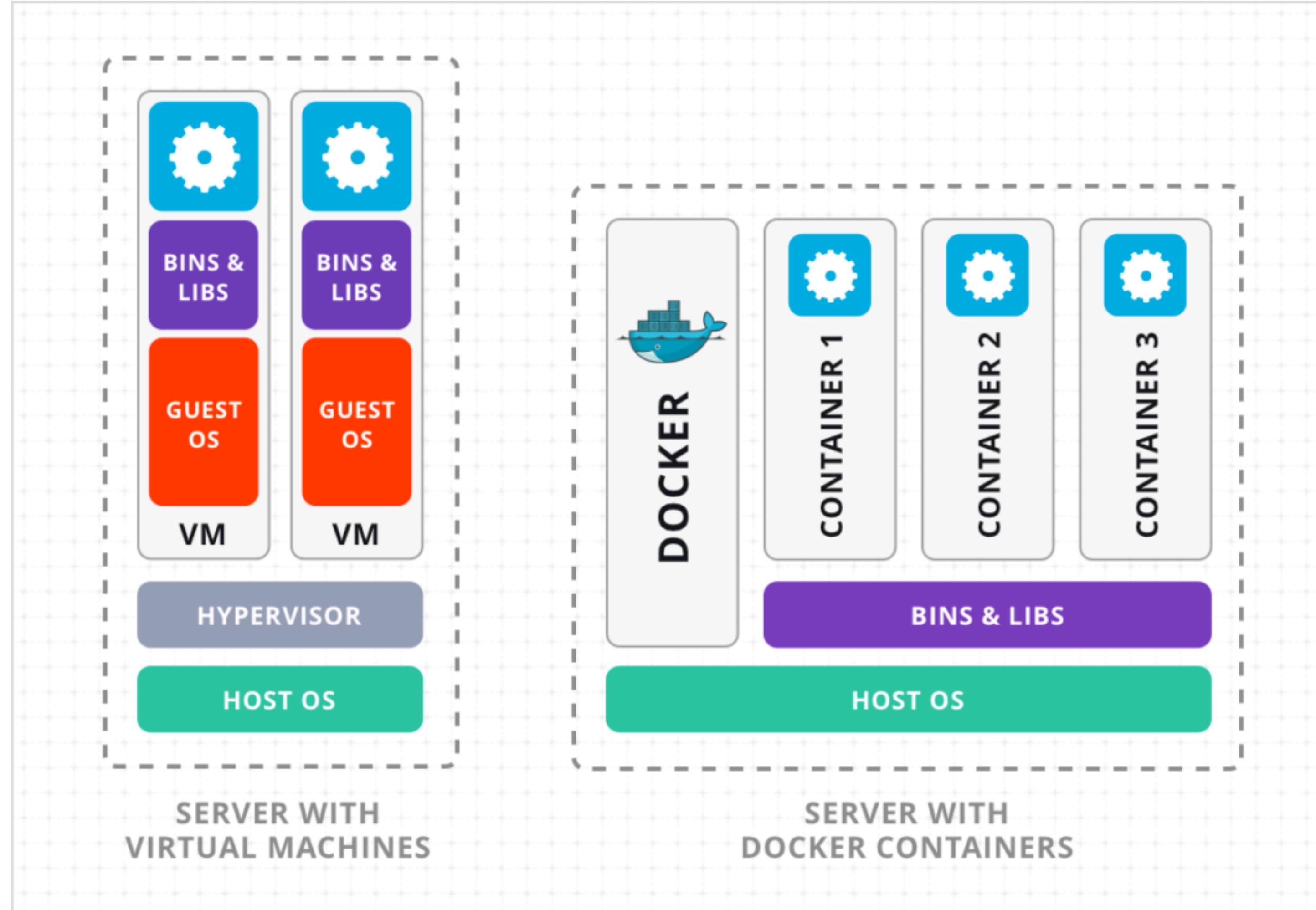


CONTAINER VS VIRTUAL MACHINE



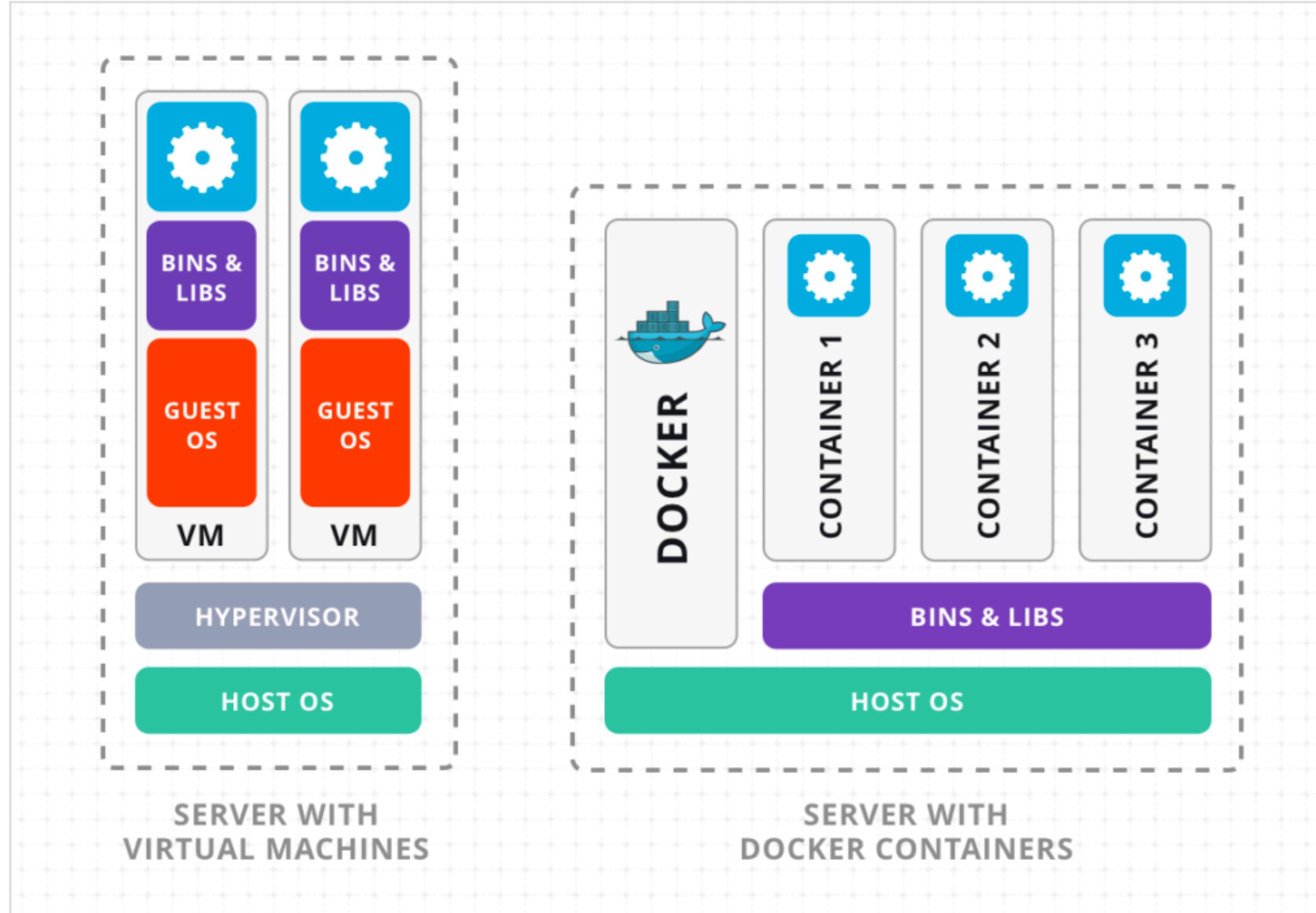
| VM | DOCKER | |
|----------------|--------|------|
| RESOURCE USAGE | HIGH | LOW |
| START TIME | SLOW | FAST |

CONTAINER VS VIRTUAL MACHINE



| | VM | DOCKER |
|----------------|------|--------|
| RESOURCE USAGE | HIGH | LOW |
| START TIME | SLOW | FAST |
| RUN TIME | SLOW | FAST |

CONTAINER VS VIRTUAL MACHINE



| | VM | DOCKER |
|----------------|------|--------|
| RESOURCE USAGE | HIGH | LOW |
| START TIME | SLOW | FAST |
| RUN TIME | SLOW | FAST |
| DISK SPACE | HIGH | LOW |

BENEFITS OF CONTAINER

BENEFITS OF DOCKER AND CONTAINER

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- Mobility – Ability to Run Anywhere

BENEFITS OF DOCKER AND CONTAINER

- Mobility – Ability to Run Anywhere
- Repeatability and Automation

BENEFITS OF DOCKER AND CONTAINER

- Mobility – Ability to Run Anywhere
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- Test, Roll Back and Deploy

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BENEFITS OF DOCKER AND CONTAINER

- Mobility – Ability to Run Anywhere
- Repeatability and Automation
- Test, Roll Back and Deploy
- Flexibility
- Cost-effectiveness with Fast Deployment

BENEFITS OF DOCKER AND CONTAINER

- Mobility – Ability to Run Anywhere
- Repeatability and Automation
- Test, Roll Back and Deploy
- Flexibility
- Cost-effectiveness with Fast Deployment
- Consistent and Isolated Environment

BENEFITS OF DOCKER AND CONTAINER

- Mobility – Ability to Run Anywhere
- Repeatability and Automation
- Test, Roll Back and Deploy
- Flexibility
- Cost-effectiveness with Fast Deployment
- Consistent and Isolated Environment
- Collaboration, Modularity and Scaling

THANK YOU