

**WORKED FINE IN
DEV**

OPS PROBLEM NOW



“Warning”

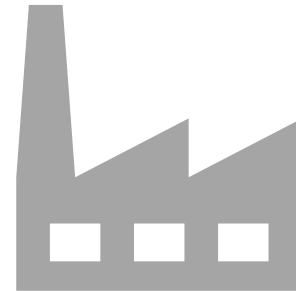
- Lecture is very short (as in... 10 minutes)
- Use remaining time for help with assignments!



Deployment



What is it?



“Production”

Deployment

- Making your application available for your users
 - URL
 - IP-address
 - Downloadable app in Play Store / App Store
 - Burning a CD
 - ...

Deployment for Laravel



MAKE APP AVAILABLE ON
INTERNET



GIVE IT A URL

Use Docker?

- You can deploy using Docker
- **Never ever** deploy containers that you run in Development envs
- **Always** create dedicated production containers



Recommended deployment

- Don't use Docker for deployments (yet)
- For most, this is your first “real” deployment
- Docker is finnick with security when you don't really know what you're doing.
- You are probably creating a security hole the size of Gargantua if you deploy using Docker

Recommended deployment

- Just deploy using systemwide Php, Apache/Nginx and MySQL
- Don't forget your .env file!
 - APP_ENV
 - DEBUG_MODE
 - ...



Not convinced?

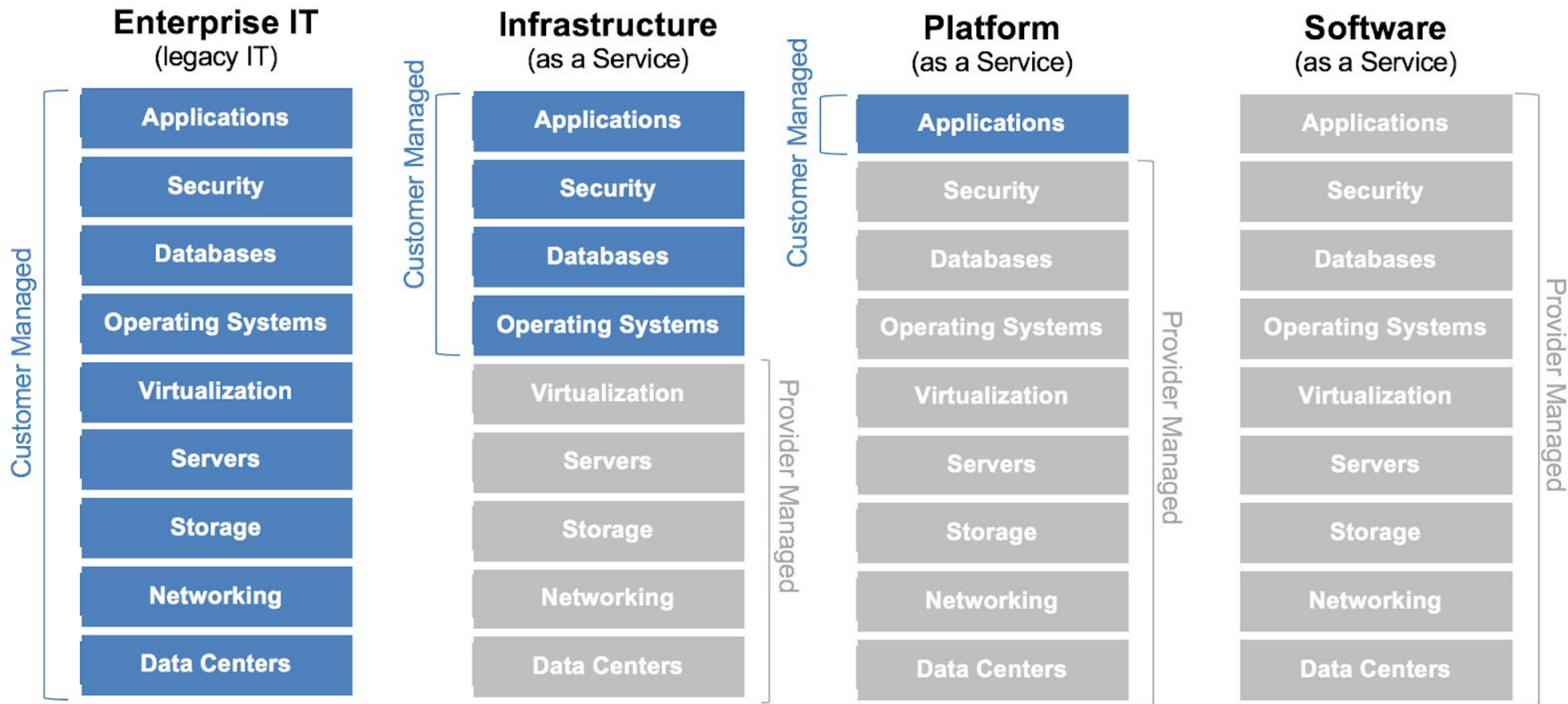
<https://www.laradocker.com/>

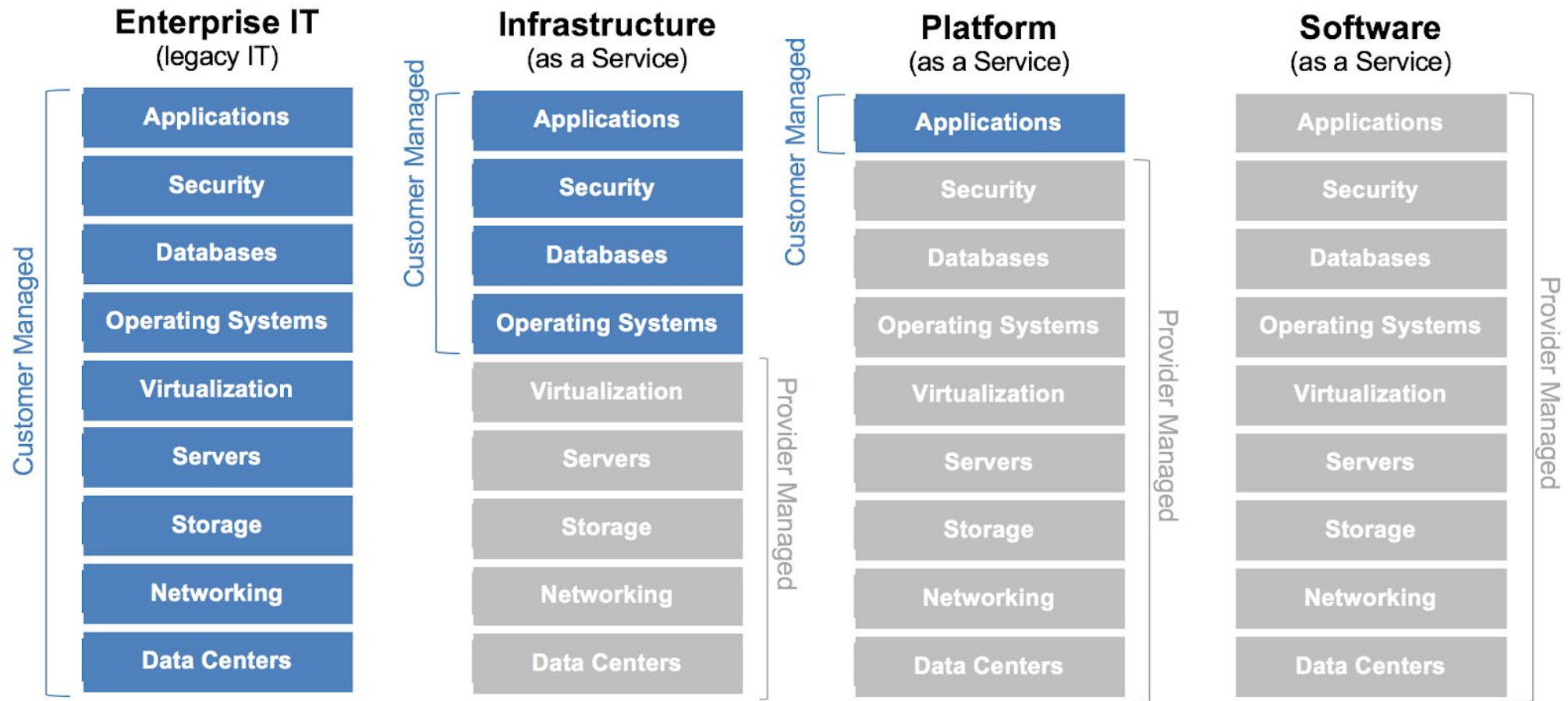
Reverse proxies, stateless volume management, manual HTTPS configuration, ...

Oh and this guy forgot file permission issues

But you got this ;)







Please Don't Do This



GitHub Student pack

- Free credits to Heroku, DigitalOcean and Azure
- Heroku + DigitalOcean → if you have credit card
- Azure → Keep +/- €75 in credits for Year 2!!!
- No credit card? Use a cheap hosting provider such as Strato:
<https://www.strato.nl/hosting/hosting-mini/>
- Server for €1 per month + domain name. Beer is more expensive!
- After DevOps, repurpose it to host your portfolio/resume ?
- <https://education.github.com/pack>

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Requirements

- There needs to be a database
- The database can be manipulated via the web app (CRUD)
- I need to log in
 - So provide me with credentials
 - Or make sure registering new accounts works
- All HTTP traffic needs to be encrypted with TLS → HTTPS

Sources

Heroku & Laravel:

<https://devcenter.heroku.com/articles/getting-started-with-laravel>

DigitalOcean LAMP stack (assignment 1):

<https://www.digitalocean.com/community/tutorials/how-to-install-linux-apache-mysql-php-lamp-stack-on-ubuntu-22-04>

Forcing Laravel apps to use HTTPS in production:

<https://stackoverflow.com/questions/35827062/how-to-force-laravel-project-to-use-https-for-all-routes>

Forcing web servers to use HTTPS in production:

<https://riptutorial.com/apache/example/7807/force-https>

Questions for DevOps?

- Feel free to ask them!
- You only have 2 weeks left.
- An assignment takes about 2 days
- Make sure you schedule enough time for both project and IT Development Portfolio!