Designing Application Deployments in Various Environments



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Agenda



Application deployment models

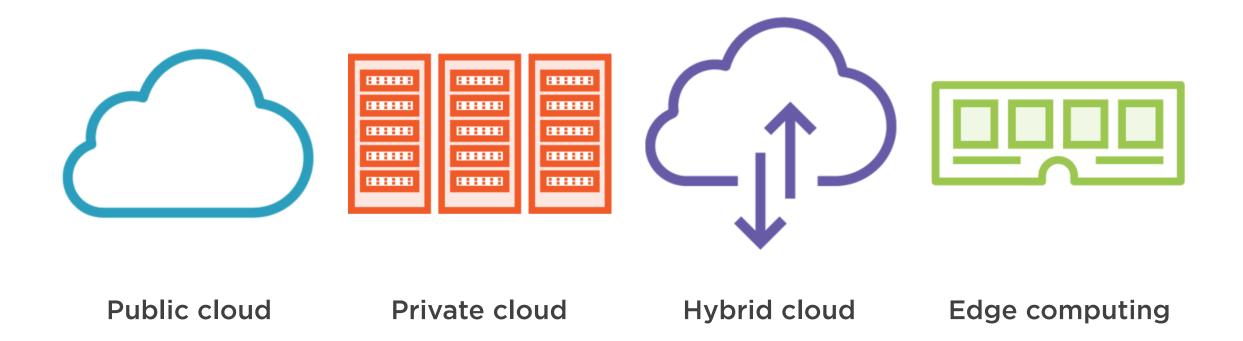
Virtualization options

Introducing Docker

- Working with Dockerfiles
- Dockerizing our CRM app
- Bonus: docker-compose



Options for Application Deployments





Cloud Wars: Public vs. Private

Public cloud

Consume/pay more as you grow
Infrastructure abstraction
"Where is your data, really?"
Unlimited scale

Private cloud

Utilize existing data center assets

More control means more responsibility

Tight watch over controlled data

Growth requires capital investment



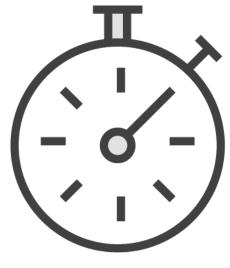
Best of Both Worlds with Hybrid Cloud

Cost effectiveness New capabilities **Flexibility**

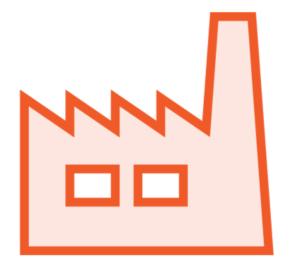


What Is Edge Computing, Anyway?





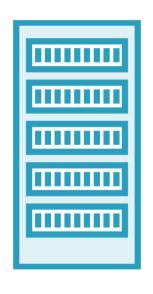




IoT applications



To Virtualize or Not?



Bare metal



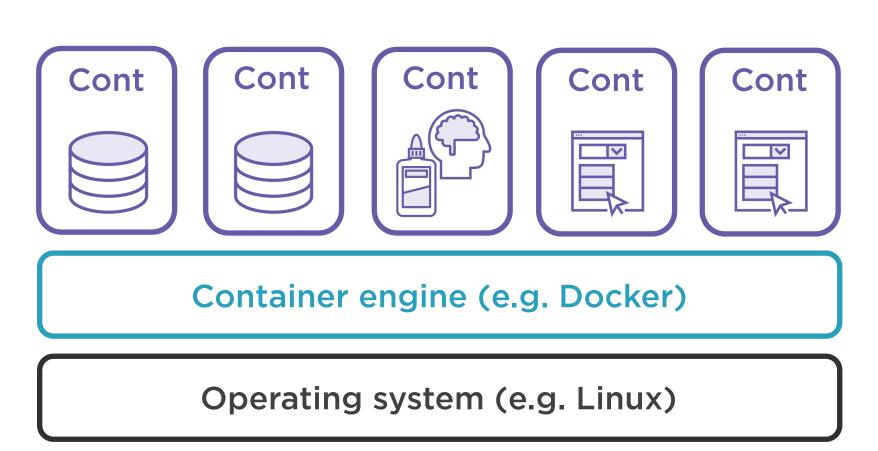
Virtual machines



Containers



The Docker Architecture Stack



Hardware platform



Demo



Installation and basic Dockerfiles



Demo



Building and running Docker images



Demo



Shortcuts with docker-compose



Summary



Application deployment strategies

Virtualization options

Lots of Docker!

