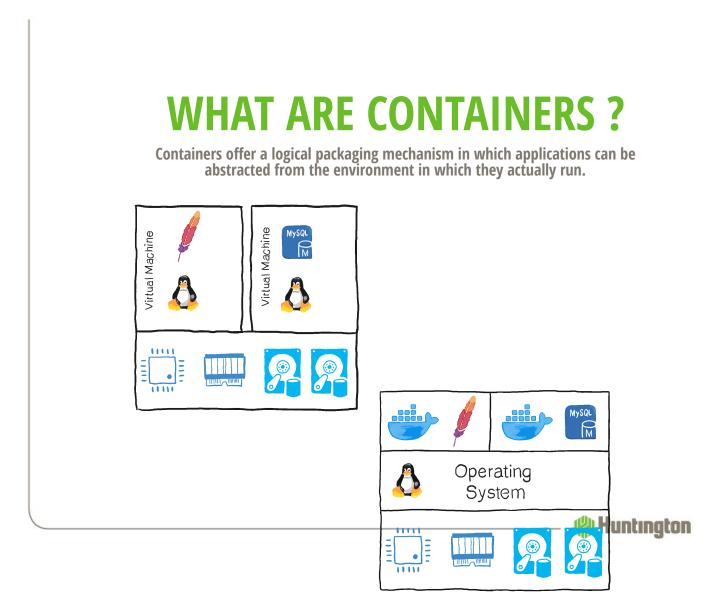


AGENDA

 What are Containers and Why use them?
Orchasteration with Kubernetes
MONOLITH VERSUS MICROSERVICES
MICROSERVICES: ARCHITECTURE TO SUPPORT AGILE
HOW ARE REQUIREMENTS NEW WITH CONTAINERIZATION
SECURITY REQUIREMENT WITH CONTAINERS 7. REFERENCES

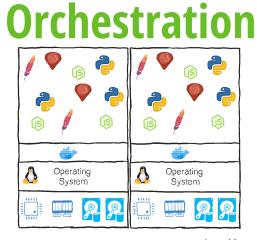
Huntington



...SO WHY ARE WE TALKING ABOUT IT ?

We can get rid of - "I don't know why it's not working for you ?" GREAT FOR SERVICE BASED ARCHITECTURE Containers offers variety of Performance benefits



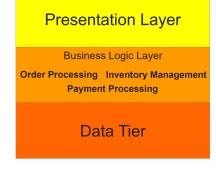


◦Launching

Running containers Scaling up or down by adding Distributing new containers between the across many or removing different containers when containers deficating tungers containers down by adding sonnething contailgers load between the across many or removing different containers when machines if containers machines demand changes something fails







- Application is too large and complex.
- Impact of a change is usually not very well understood which leads to do extensive manual testing.
- Another problem with monolithic applications is reliability. Bug in any module (e.g. memory leak) can potentially bring down the entire process.

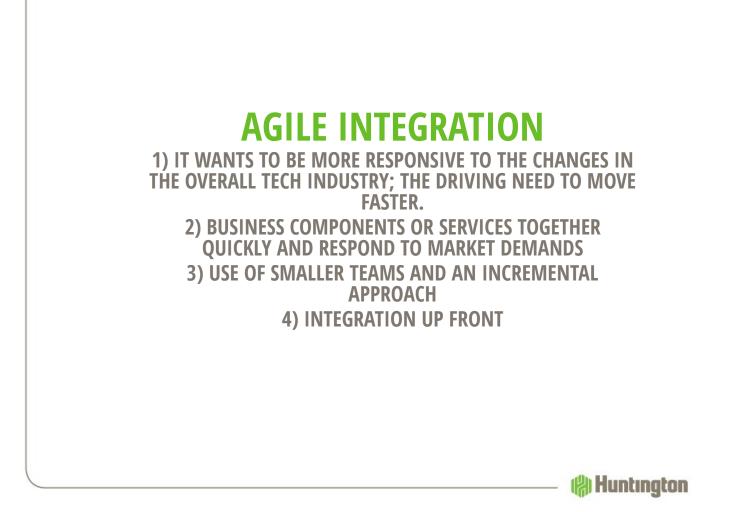


ENTER MICROSERVICES



- Split your application into a set of smaller, interconnected services instead of building a single monolithic application.
- These services are built around business capabilities and are independently deployable .
- Services communicate with each other by using well-defined APIs. Internal implementation of each service are hidden from other services.





HOW ARE REQUIREMENTS NEW WITH CONTAINERIZATION?

 ORGANIZATIONS ARE ORGANIZING THEIR DEVELOPMENT TEAMS DIFFERENTLY AND THEY NEED TO GET BUSINESS ELEMENTS INVOLVED.
MICROSERVICES ARE ORGANIZED AROUND BUSINESS CAPABILITIES
APIS IS NOW CONSIDERED THE THIRD PILLAR FOR AGILE.
SCALIBILITY AND PERFORMANCE IS A LOT DIFFERENT WITH CONTAINERS

(A) Huntington



 INTEGRATE STATIC APPLICATION SECURITY TESTING INTO THE BUILD PROCESS .
ROBUST, CENTRALIZED AUTHENTICATION AND AUTHORIZATION POLICIES FOR ACCESS.
ENCRYPT ALL DATA AT REST. FULL DISC ENCRYPTION 4) MAKE SURE THAT YOUR PLATFORM IS MOSTLY "ATOMIC".



Spectacle

