# PGPCC - Mentor session

Week 1 & 2
"Docker & AWS ECS"

## **Agenda**

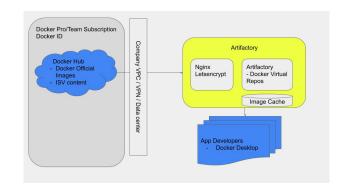
- Total duration 120 mins
- Docker JFrog partnership (10 mins+)
- PayPal's 2 Year Journey to 150,000 Containers Project managers perspective (20 mins+)
- Docker implementation proposal elevator speech tips (10 mins)
- Q&A from participants (45 mins-)



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# Docker and JFrog Partnership Designed to Improve the Speed and Quality of App Development Processes

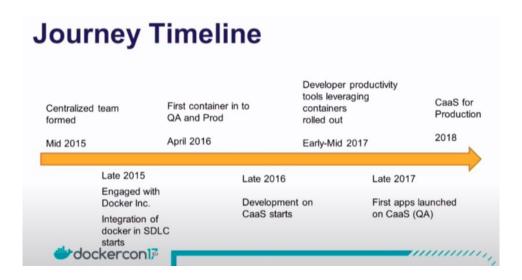
- How can we ensure developers can get the images they want and trust, and make sure they can access them in whatever development process they are using from a centralized platform?
- At a high level, a solution based on the Docker and JFrog partnership looks like this (pic to the right)
- Developers can build apps with images, including Docker Official Images and images from popular OSS projects and software companies, from Docker Hub
- As images are requested, they are cached into JFrog Artifactory, where images can be managed by corporate policies, cached for high performance, and mirrored across an organization's infrastructure.
- Also, the images in Artifactory can take advantage of other features in the JFrog suite, including vulnerability scanning, CI/CD pipelines, policies and more. All without limits.
- This is an exciting first for Docker, as the partnership with JFrog opens up new ways of integrating leading tools to improve outcomes for developers



- Planning the container journey is critical because there can be many options to select from
  - Container as a service
  - Serverless etc



- Containerization "is NOT the same as" Orchestration "is NOT the same as" microservices
- Don't rush it!! It will take time

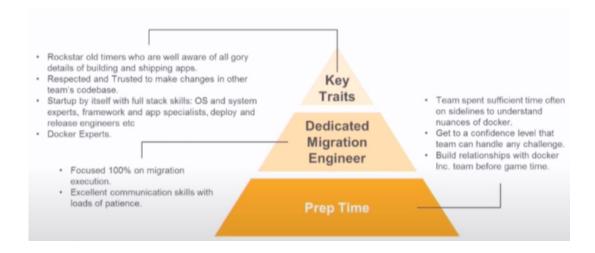


Next...

Some guiding principles for implementation (project planning)



Team characteristics (Decides outcomes)



## Mindset @ Phase 1

#### Recognize You May Have One Shot

#### Spread The Knowledge

Program has to scale and sustain with time
 Dependent teams, key partners need to independently innovate at some point.

#### Work on Full Stack (kernel/OS to SDLC changes)

- Dependent teams may not have any bandwidth to

#### Guilty Until Proven Innocent

- Issues will arise during migration. Debug on behalf
- of developers.

  Developers have trusted you with this black box change. Do not lose it.

  They are not Experts. You Are!

#### Do Not Hide The Migration

#### **Expect Push Back**

- · Certain teams will be too busy to even
- support seamless migration.

  Be persistent, prove it to them by learning their app. Convince them

#### Minimal Ecosystem Changes

#### 100% laser focused on As-Is-Migration

- Not get tempted to couple program with microservices, app refactoring, CaiaS, BM vs VM etc. Separation of concerns.
   Fast output essential. Project can be killed if slow pace. Show confidence in your architecture, strategy and execution plans.



Execution strategy

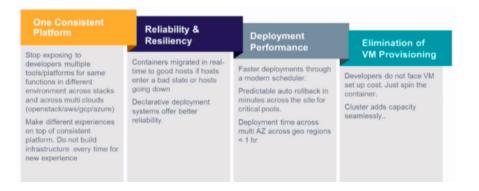




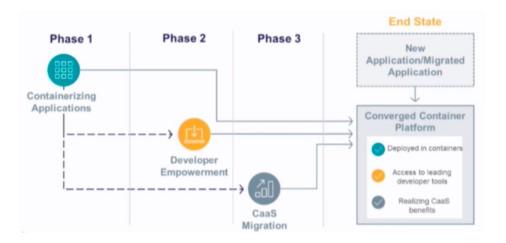


Next ...

Developer benefits



Multi phase implementation timeline



## Docker adoption in your organization - Elevator speech tips

### **Benefits of Docker**

- Environment standardization
- Faster configuration with consistency
- Better disaster recovery
- Improvement in adoption of DevOps

## **Adoption strategy**

- Don't expect company-wide adoption overnight
- Not only for deployment, use Docker in workflow
- Provide incentives to use Docker
- Prepare a set of Docker setup instructions for QA

You can use the above points to structure a proposal for Docker implementation.

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**Q&A** 

Have questions?

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# Thank you

Happy Learning!