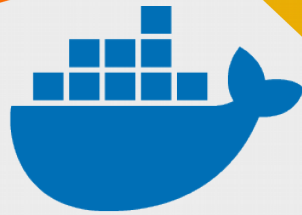# Day 1

https://blog.docker.com/2017/04/dockercon-2017-day-1-highlights/

- New features: multistage build, d s logs (docker service logs) ...
- desktop-to-cloud
- DockerID
- SwarmKit
-   secrets
-   MTLS
-   segmentation
-   encrypted overlays
- Mixed architecture clusters
- LinuxKit
- Moby

Day 2

- VISA
- secure supply chain
- certified ecosystem, e.g. Oracle
- MTA

Additional material
if time permits

- Docker Community, Mentoring and Higher Ed and Embassador program.

-

- Audience vote:

- Demo Docker Swarm using Visualizer

- Demo Portainer

- Quick recap of creating effective images

New Features

- Multistage builds
  - Multi-stage builds are a new feature in Docker 17.05, and they will be exciting to anyone who has struggled to optimize Dockerfiles while keeping them easy to read and maintain.
  - https://docs.docker.com/engine/userguide/eng-image/multistage-build/#use-multi-stage-builds
- docker service logs – Fetch the logs of a service
  - https://docs.docker.com/engine/reference/commandline/service_logs/

desktop-to-cloud

- https://cloud.docker.com
- Continuous integration (CI) for Docker
- Fully-managed Docker Registry Service
- Provision & manage Swarms
- Desktop integration
  - View and access any of your managed Swarms right from your laptop using Docker for Mac or Docker for Windows.

DockerID

- Your free Docker ID grants you access to Docker services such as the Docker Store, Docker Cloud, Docker Hub repositories, and some beta programs. Your Docker ID becomes repository namespace used by hosted services such as Docker Hub and Docker Cloud. All you need is an email address.

- This account also allows you to log in to services such as the Docker Support Center, the Docker Forums, and the Docker Success portal.

- Also used to collaborate on projects

SwarmKit

- Secrets
  - Use docker secrets with Swarm
  - https://docs.docker.com/engine/swarm/secrets/
- MTLS
  - Mutual TLS: All nodes communicate with each other using mutual TLS. Swarm managers act as a Root Certificate Authority, issuing certificates to new nodes.
- Segmentation – cluster segmentation
  - Segment your cluster, ie frontend, PCI, etc...
- encrypted overlays
  - Encrypt data exchanged between containers on different nodes on the overlay network.
  - https://docs.docker.com/engine/userguide/networking/overlay-security-model/

Mixed architecture clusters

- x86

- arm

- PPC

- s390

LINUX KIT

- A toolkit for building secure, portable and lean operating systems for containers
  - https://blog.docker.com/2017/04/introducing-linuxkit-container-os-toolkit/
  - https://github.com/linuxkit/linuxkit
- Secure defaults without compromising usability
- Everything is replaceable and customisable
- Completely stateless, but persistent storage can be attached
- Easy tooling, with easy iteration
- Built with containers, for running containers
- Designed for building and running clustered applications, including but not limited to container orchestration such as Docker or Kubernetes

- Docker continues to break apart and open source many of the components to docker

- Moby is the open sourced part that was docker engine cli
  - https://blog.docker.com/2017/04/introducing-the-moby-project/
  - https://mobyproject.org/#moby-and-docker

Day 2

- VISA – 100K transactions per day
  - https://blog.docker.com/2017/04/visa-inc-gains-speed-operational-efficiency-docker-enterprise-edition/
- secure supply chain
  - https://blog.docker.com/2016/08/securing-enterprise-software-supply-chain-using-docker/
- certified ecosystem, e.g. Oracle
  - https://store.docker.com
- MTA (Modernize Traditional Apps program)
  - https://blog.docker.com/2017/04/modernizing-traditional-apps-with-docker/

Docker Community, Mentoring and Higher Ed and Embassador program.

- ## Docker Community

  - https://community.docker.com/registrations/groups/4316

- ## Docker Mentor program

  - https://blog.docker.com/2017/05/mentorship-docker-community-can-get-involved/

  - https://community.docker.com/registrations/groups/3524

- ## Higher Education and Embassador program.

  - Get a card from the back table or see me.