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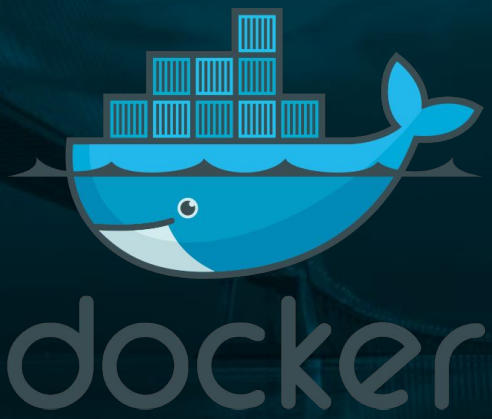
Introduction to Containerization and OpenShift

Open Source Day

INTRODUCTION TO CONTAINERS



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Containers

Operating System level virtualization: Containers are a way to package software in a way that can run in isolated on a shared operating system

- **Lightweight**, since the container provides the basics for what the application requires to run and function without excess
- Runs **reliably** in different environments

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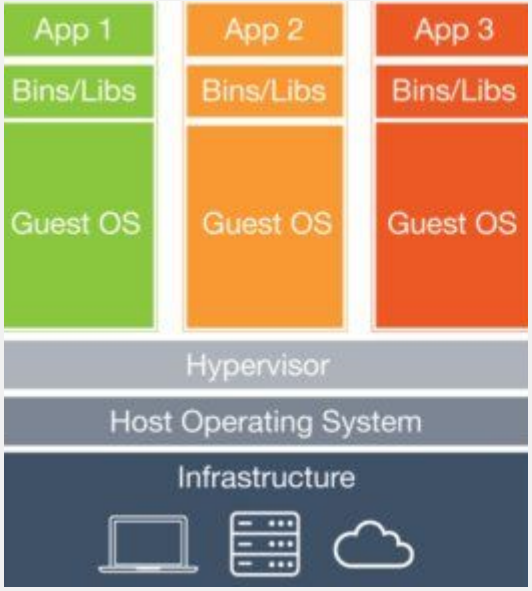
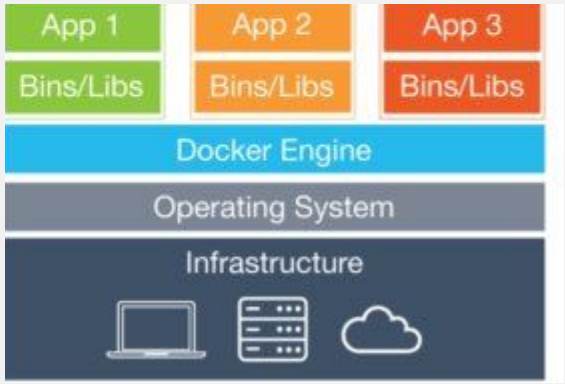
Virtual Machines vs. Containers





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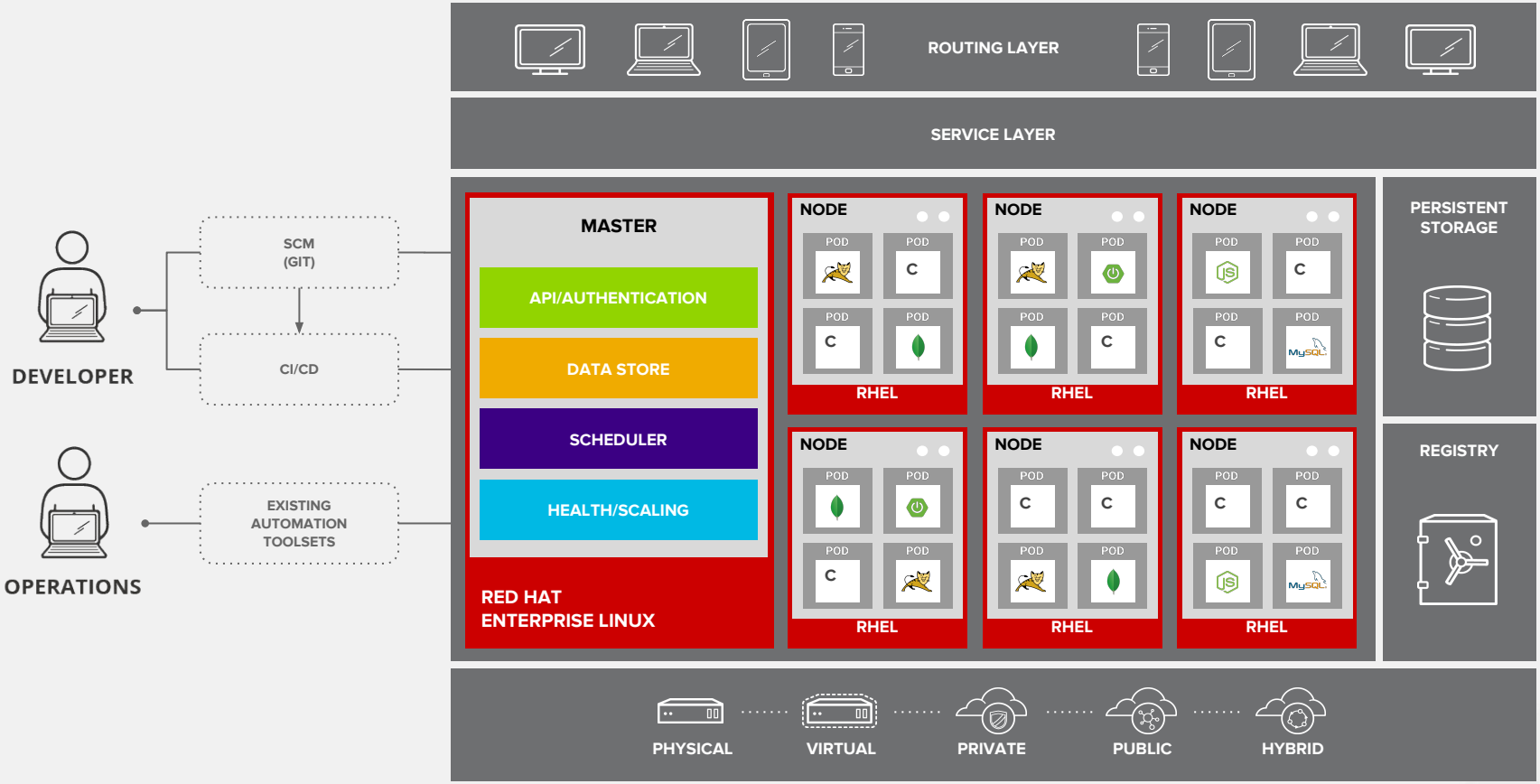
OpenShift Architecture



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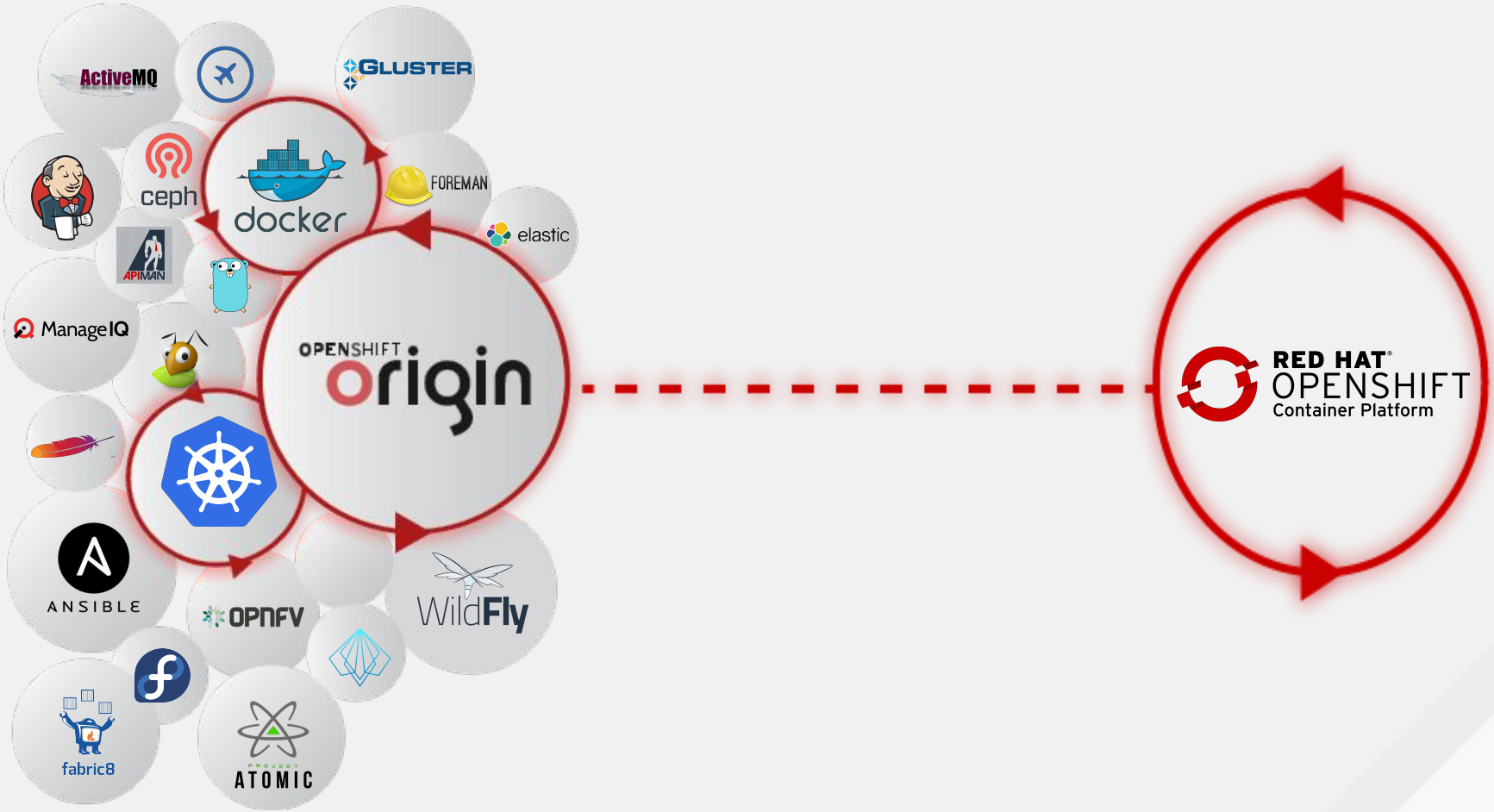
Red Hat Openshift



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Ideas to Get Started

To get you started on this GHC Hackathon, we've come up with a couple ideas that may inspire you to think of your own!

- Collecting Events Data
  - Collect relevant data surrounding galas and fundraisers for important causes in your area
- Natural Disaster Information Application
  - Connect to the ReliefWeb API to receive up to date information on natural disasters in the US
- Daily Action Items Application
  - Connect to the Google Mail API so you can send emails to subscribed users on daily action items for the humanitarian cause of your choice (ie sustainability, women's rights)

Materials

- Github :
  - https://github.com/eleanordare/red-hat-osd-2017
- Share Drive :
  - *If you cannot access the GitHub with the materials use the following share drive*
    - Network (choose from your wifi menu)
      - Name : GHC_RHT_2017
      - Password : OpenSource2017
    - In the browser, navigate to
      - ftp://192.168.1.1
    - When prompted enter the following :
      - ghc/ ghc

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Thank You