Advancing the Future of CI/CD together

Tracy Miranda
@tracymiranda
Tracy Miranda

Director of OSS @ CloudBees

Governing Board @ CD.Foundation

Co-instigator of #GreatBrexitPubCrawl

@tracymiranda
Continuous Delivery

Code → Build → Test → Deploy → Repeat!
“Software delivery is an exercise in continuous improvement, and our research shows that year over year the best keep getting better, and those who fail to improve fall further and further behind.”

- Nicole Forsgren
Challenges in the CI/CD Space

1. Rise of microservices & cloud native technology
2. Fragmented CI/CD tool landscape
3. Change is hard!
CD.Foundation

On 12th March 2019, the CDF was formed as the new open source home of Jenkins, Jenkins X, Spinnaker and Tekton.
A neutral home for the next generation of continuous delivery collaboration
Sitting at the board meeting for @CDeliveryFdn this morning and made a delighted realization. Do you see it? :) #womenintech
CDF 9 Strategic Goals

1. Drive Continuous Delivery Adoption
   through education & disseminating emerging practices.

2. Cultivate Growth of Projects
   sustain our OSS projects and grow our portfolio

3. Foster Tool Interoperability
   and integration for all CI/CD tools

4. Champion Diversity & Inclusion
   and get real about our biases and assumptions.

5. Foster Community Relations
   solicit priorities & collaborate with other communities

6. Grow the membership base
   and find ways to include different classes of members

7. Create value for all members
   devs, practitioners and member organizations

8. Promote security as a 1st class citizen
   and make it easier to deliver secure software

9. Expand into emerging tech areas
   and build CI/CD ecosystems around these
1. Drive Continuous Delivery Adoption
cdf landscape

https://landscape.cd.foundation/
CI/CD Meetup Community
https://www.meetup.com/pro/cicd-cdf/
Join or start a Continuous Delivery Meetup near you!

https://www.meetup.com/pro/cicl-cdf
2. Cultivate Project Growth
Initial Projects:

Jenkins  Spinnaker  TEKTON  JENKINSX

https://cd.foundation/projects
Projects at different points of adoption
3. Foster Tool Interoperability
Promoting interoperability

- Standardize the building blocks into shared APIs
- Build an ecosystem of integrations and plugins around these interfaces
- Improve the state of delivery for the entire industry

- We must drive for common APIs, metadata, etc
sig-interoperability

https://github.com/cdfoundation/sig-interoperability
Establishing Shared Vocabulary

- Introduction
- Terminology Used by CI/CD Tools and Technologies
  - CircleCI
  - GitHub Actions
  - GitLab CI/CD
  - Jenkins
  - Jenkins X
  - Screwdriver
  - Spinnaker
  - Tekton
  - Zuul
- Terminology Used by SCM Tools and Technologies
  - Gerrit
  - GitHub
  - GitLab
- Mapping of Terms
- Shared Vocabulary
9. Expand into emerging tech areas
What is MLOps?

“the extension of the DevOps methodology to include Machine Learning and Data Science assets as first class citizens within the DevOps ecology”

What is MLOps Not?

MLOps is not "putting Jupyter Notebooks into production environments"
Join the community building the future of Continuous Delivery

@cdeliveryfdn
https://cd.foundation/members/join/