Building CloudNativeApplications

4 Sessions

7th Feb - Cloud Platforms

14th Feb - DevOps

28th Feb - Uptime

7th March - Continuous Improvement

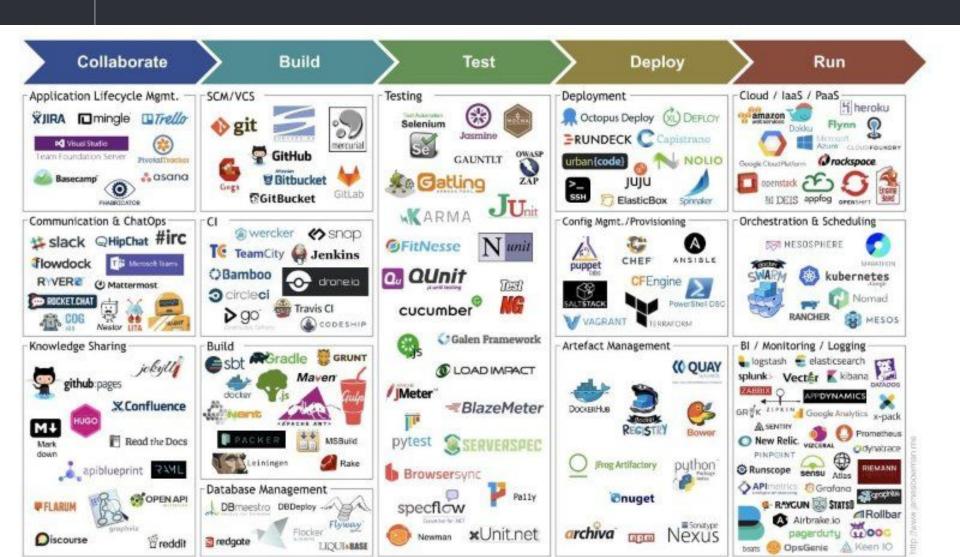


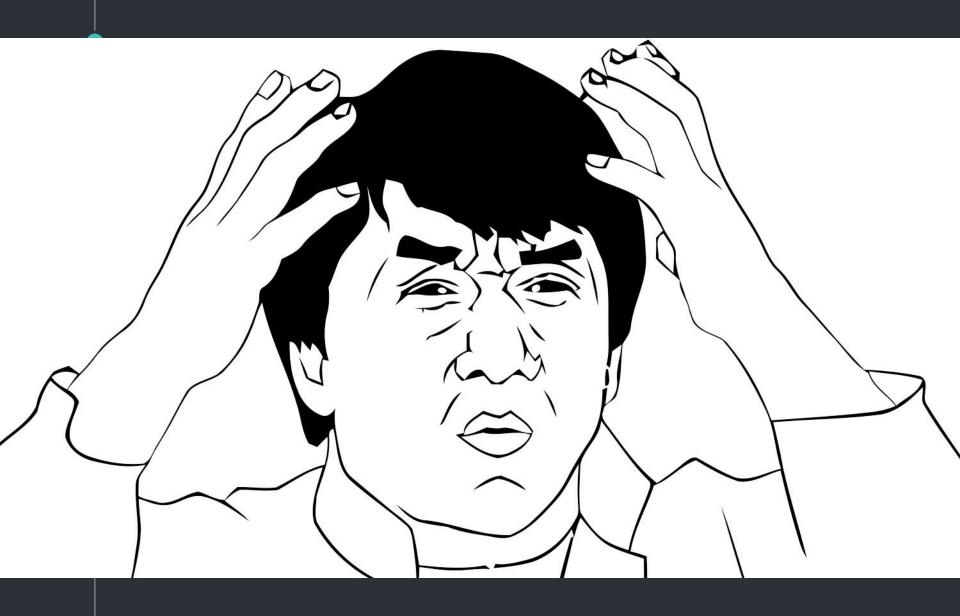
Hello! I AM ED SHEE

Developer Advocate at IBM
You can find me at @ukcloudman

1 DevOps

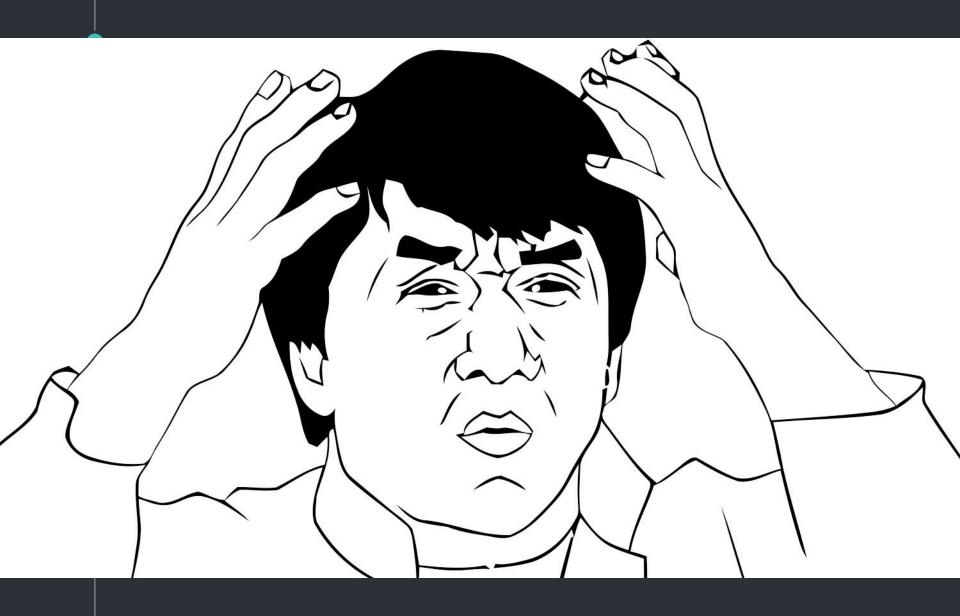
Overview





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DevOps (a clipped compound of "development" and "operations") is a software engineering culture and practice that aims at unifying software development (Dev) and software operation (Ops).



DevOps is really, really broad...

DEVOPS HISTORY

The "DevOps" movement has been caused by three major factors:

- Agile Development Practices
- Cloud Computing
- Increased Automation

EXAMPLE DEVOPS PRACTICES

- Development Methods
- Build
- Test
- Deployment
- Infrastructure

- Logging
- Code/ReleaseManagement
- Configuration
- Virtualisation
- Monitoring



Extreme Programming

extremeprogramming.org

PLANNING

- Customer creates user stories
- Divide projects in to small iterations
- Planning starts each iteration
- Frequent and small releases

MANAGING

- Use open work spaces
- Set an achievable pace
- "Stand up" meeting every day
- Measure project velocity
- Move people around

DESIGNING

- Do the simplest thing that works
- Never add functionality early
- Create spike solutions
- Refactor whenever possible

CODING

- The customer is always available
- Write tests before code
- Pair programming
- Collective ownership
- Integrate often

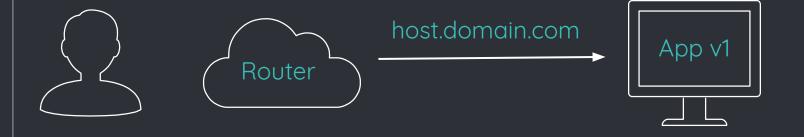
TESTING

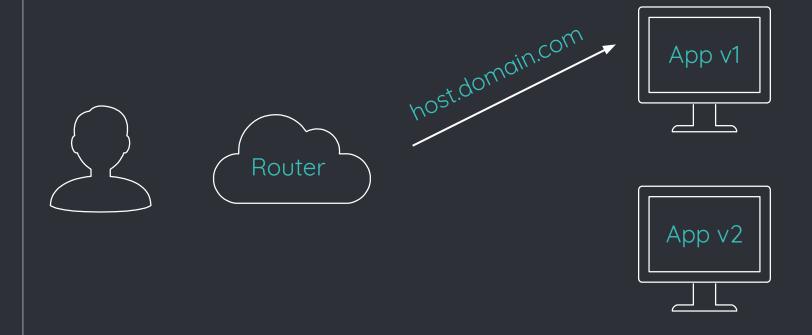
- All code must have unit tests
- All code must pass unit tests
- Write tests when a bug is found
- Acceptance tests are run often

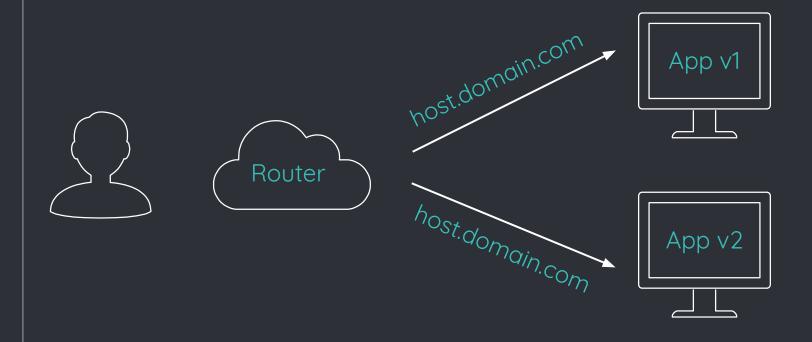


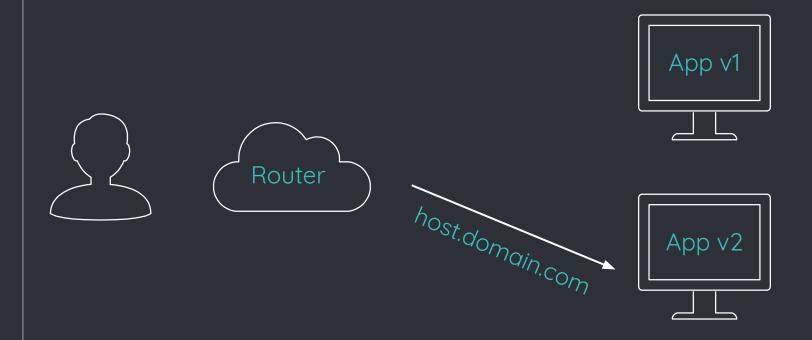
Zero Downtime Deployments

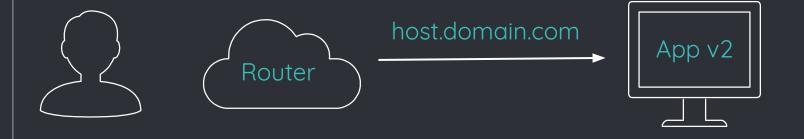
Blue/Green cloud deployments











Workshop - Working with DevOps Services

https://github.com/edshee/cndworkshops

Thanks!

ANY QUESTIONS?

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