



Benefits of CI/CD for UdaPeople

Automating software delivery
to provide continuous value to our users

CI / CD Pipeline to be implemented

1 Build

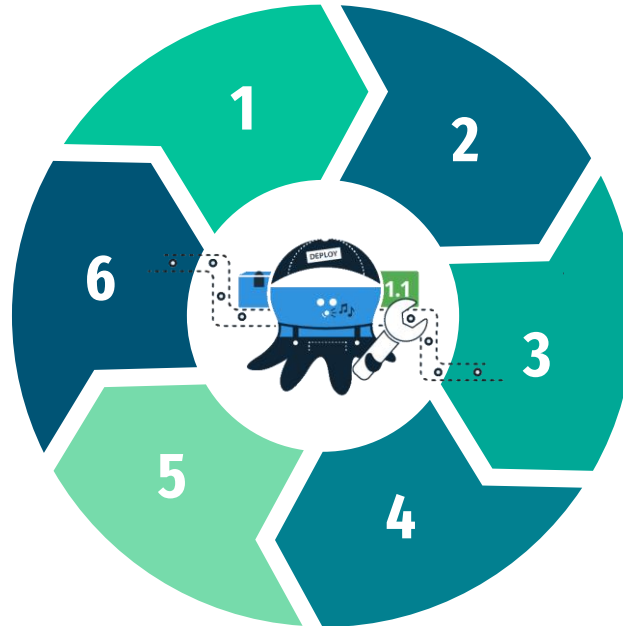
source code build after each commit to fail fast in case of merge errors

6 Promote

Easy promote to production
Easy rollbacks if required

5 Verify

Reliable verification of environment health before going with new version to production



2 Test

Automatic tests to increase confidence in code reliability

3 Analyze

Code quality measurement for Dev improvement

4 Deploy

Deploy automation will decrease Ops team time wasted on repeatable tasks

Team size vs number of deployments

Teams growth

Organizations adopting DevOps are able to linearly increase the number of deploys per day as they increase their number of developers, just as Google, Amazon, and Netflix have done.

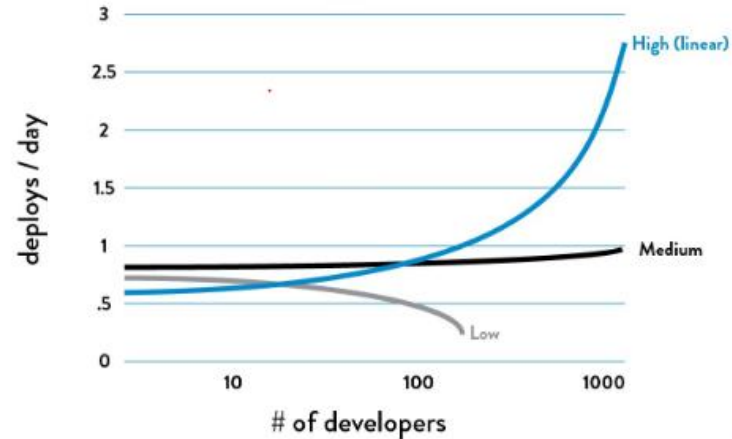


Figure 1.

Deployments/day vs. number of developers (Source: Puppet Labs, 2015 State Of DevOps Report.)

Measures we need to focus on



Lead Time to Production

for faster delivery of demanded features to our customers



Time to Failure

how fast do we find issues and fix them ?



Production Uptime

For high system availability and reliability



Rollback Rate

to improve quality of our deployments

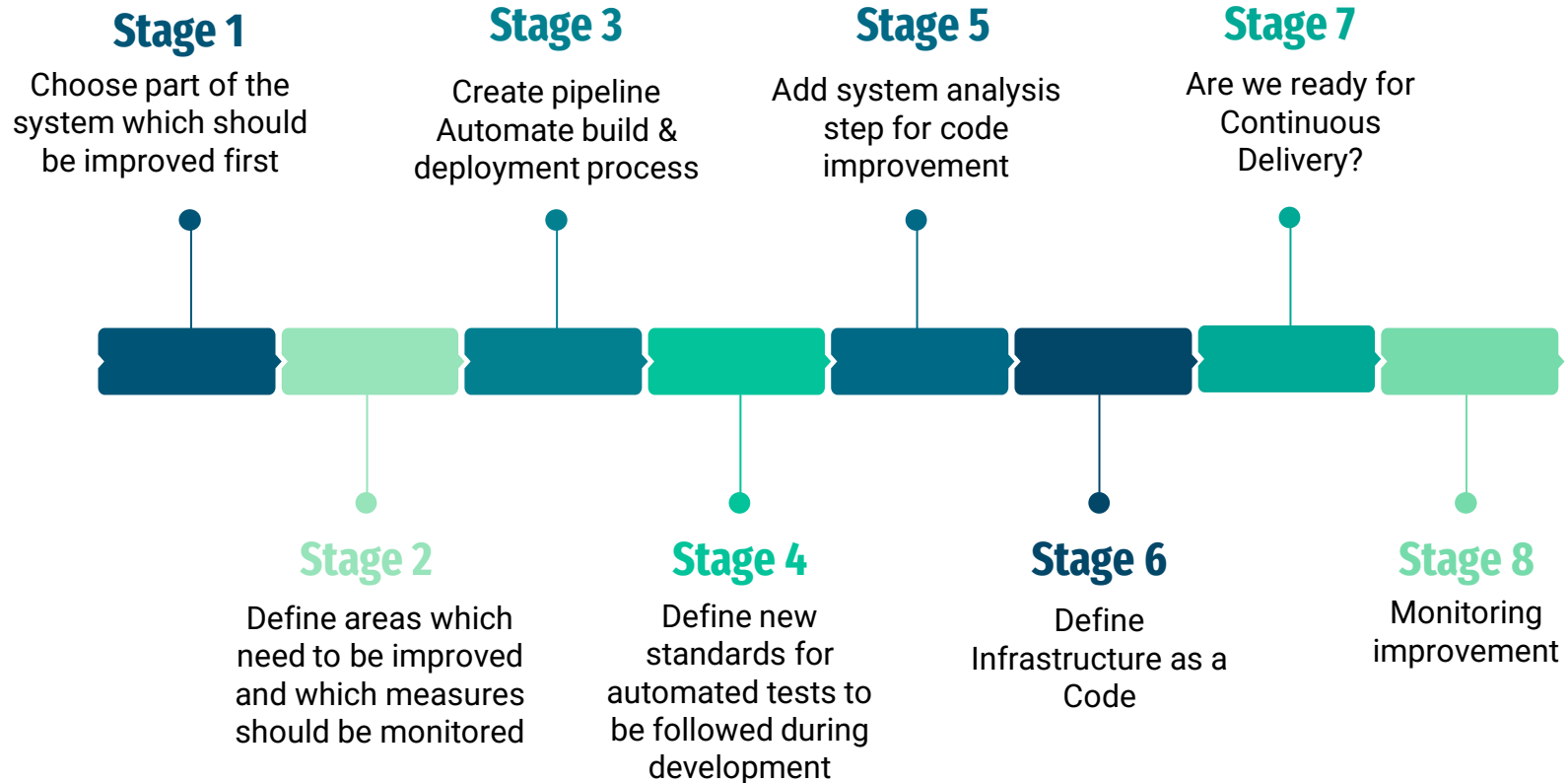


Failed Pipeline

Cost

Do decrease cost

How will this journey look like?



What are the advantages?



Improved Monitoring

will help us to react faster to incidents



Frequent features delivery

We will be able to deliver more often in smaller batches



Infrastructure which is easy to recreate



Confidence

with unit / integration / frontend tests



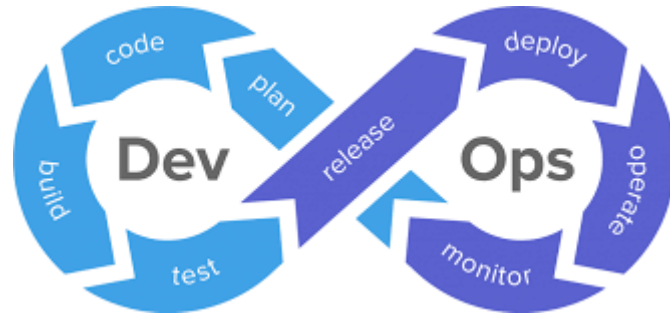
Fail fast

Cost of failing fast is much lower



Faster feedback

More frequent deploys means faster feedback for customer



Thank you