

Observability to Better Apps

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Is your application working for your users?





Are you sure?



Define "working".





UP != "online"











Uptime?



What if your app is always "up"?



Your code always does what you write it to do.

Does it do what you WANT it to do?



lf it "works" matters.



What your app is doing matters.

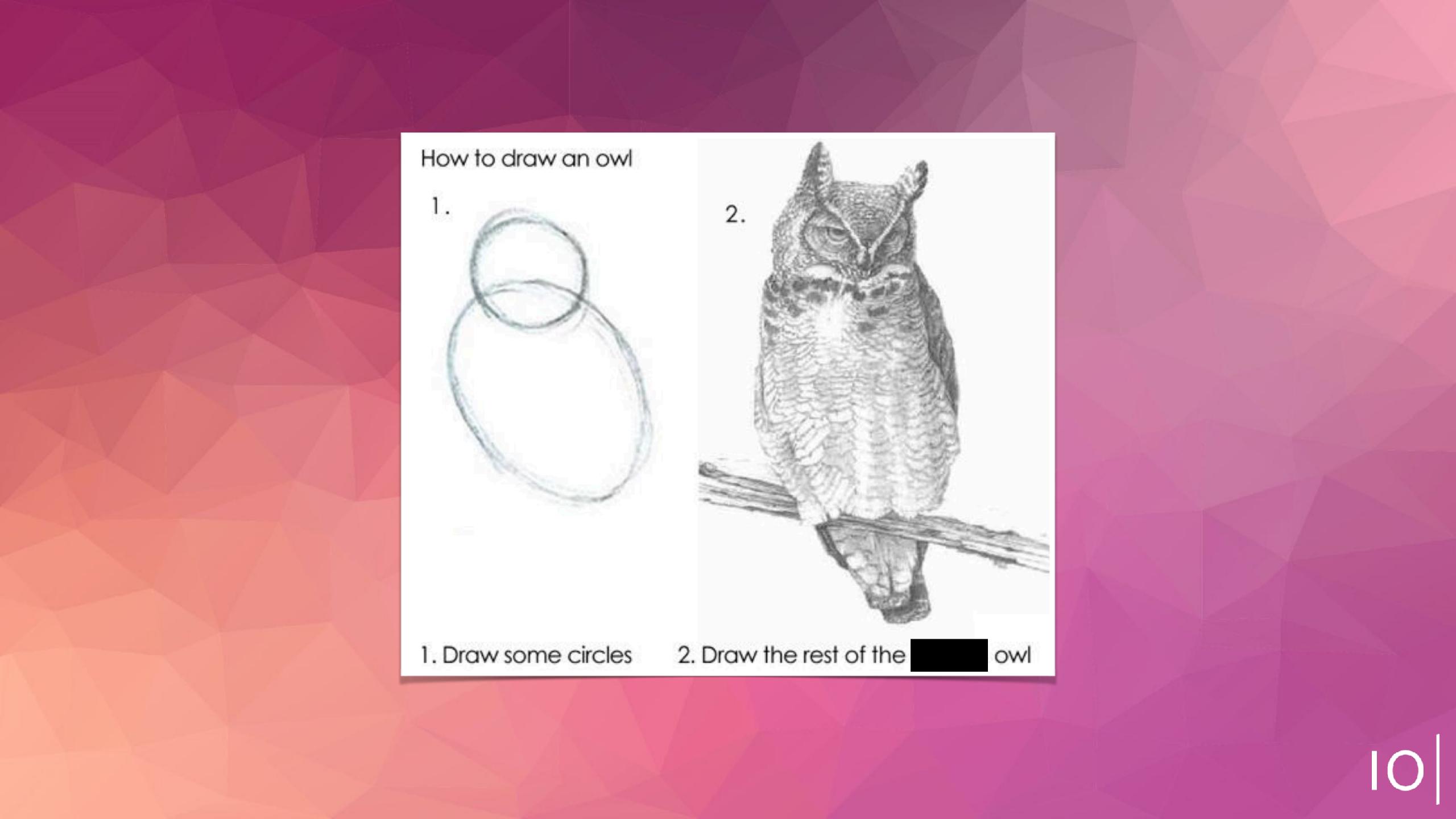


What your users are doing matters.



Knowing if your app works is... ops?



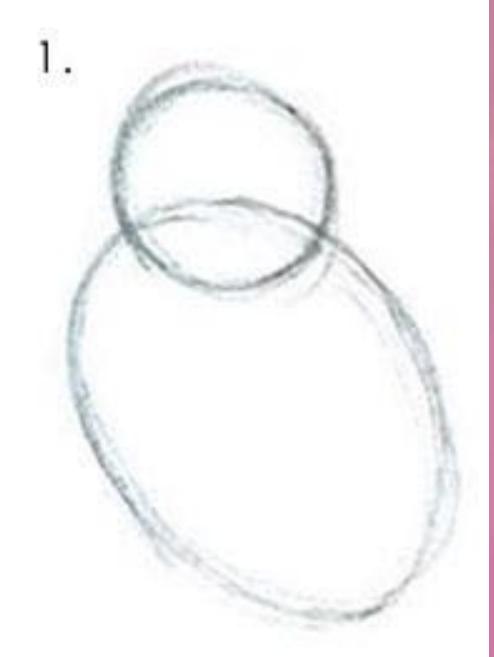


Serverless Culture

Don't build, when you can buy. Build as little as necessary. Build with the minimum operational complexity.



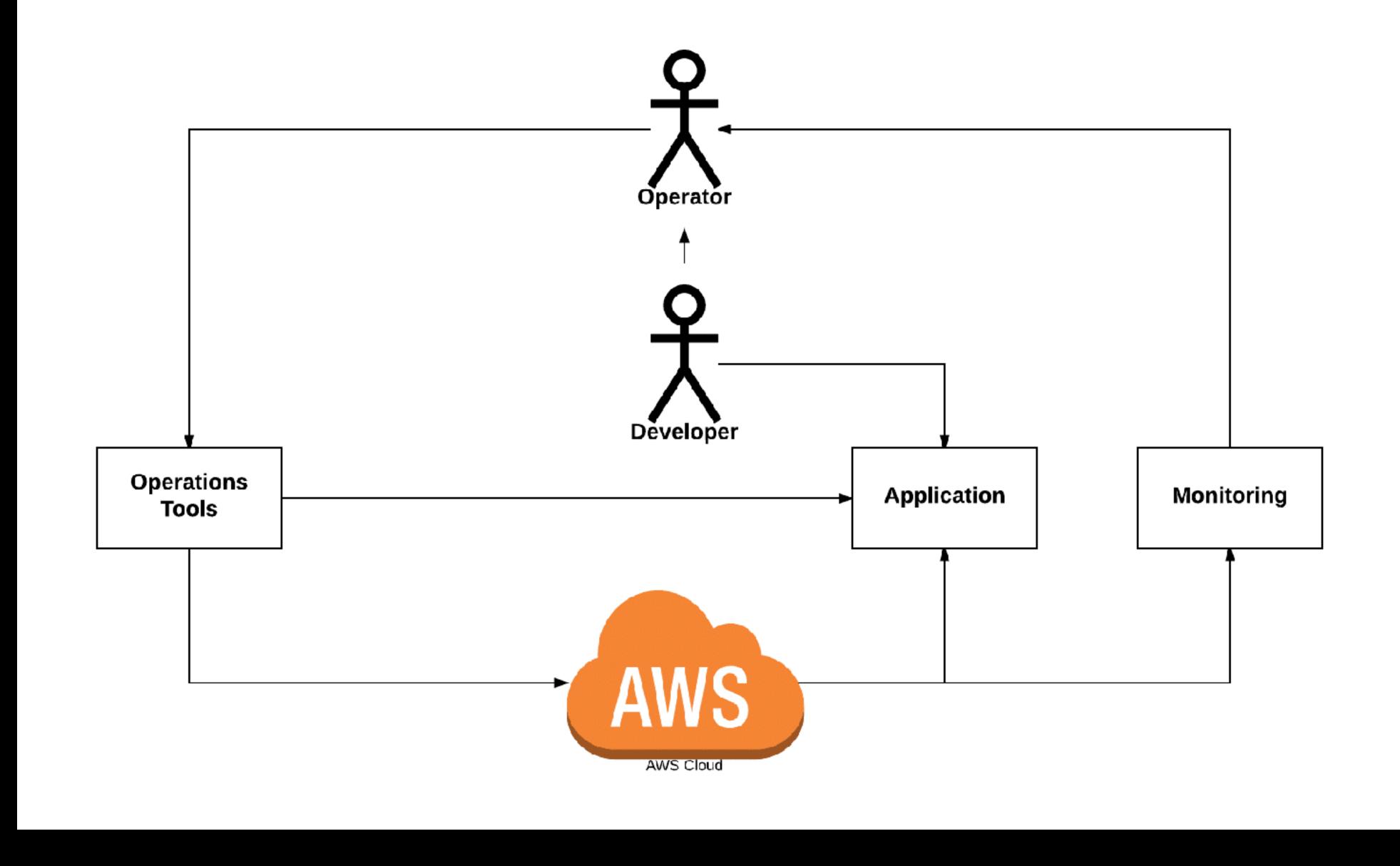
How to draw an owl



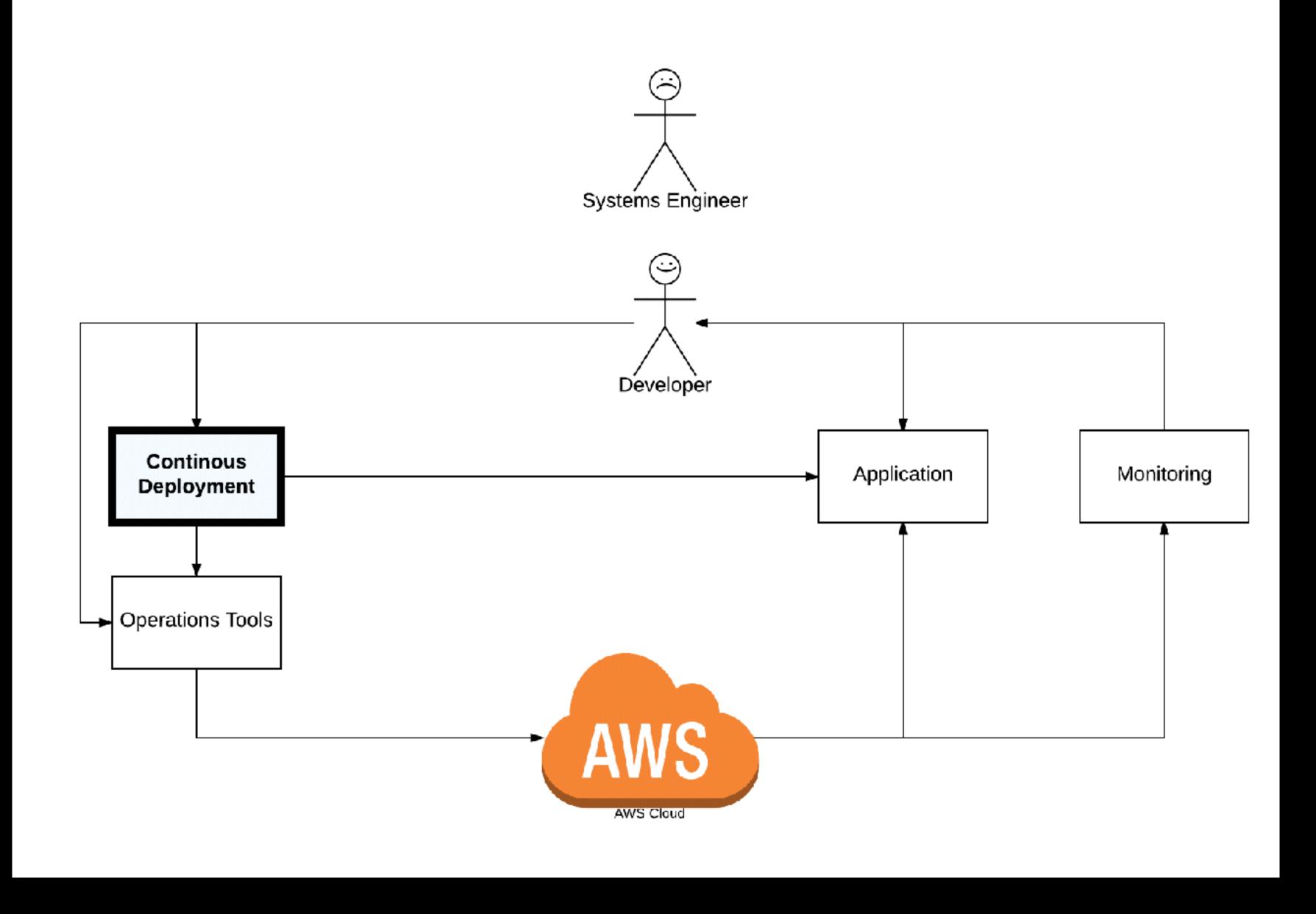
1. Draw some circles

Maybe all you need are some circles











DEPLOYMENT















AWS OpsWorks

AWS Code Pipeline

LOGS & METRICS



AWS Cloudwatch





APP

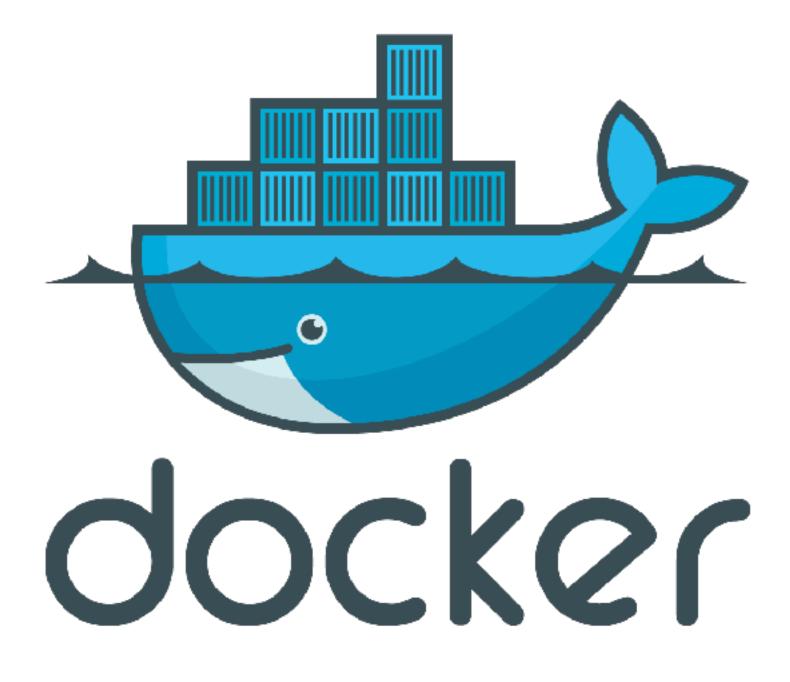








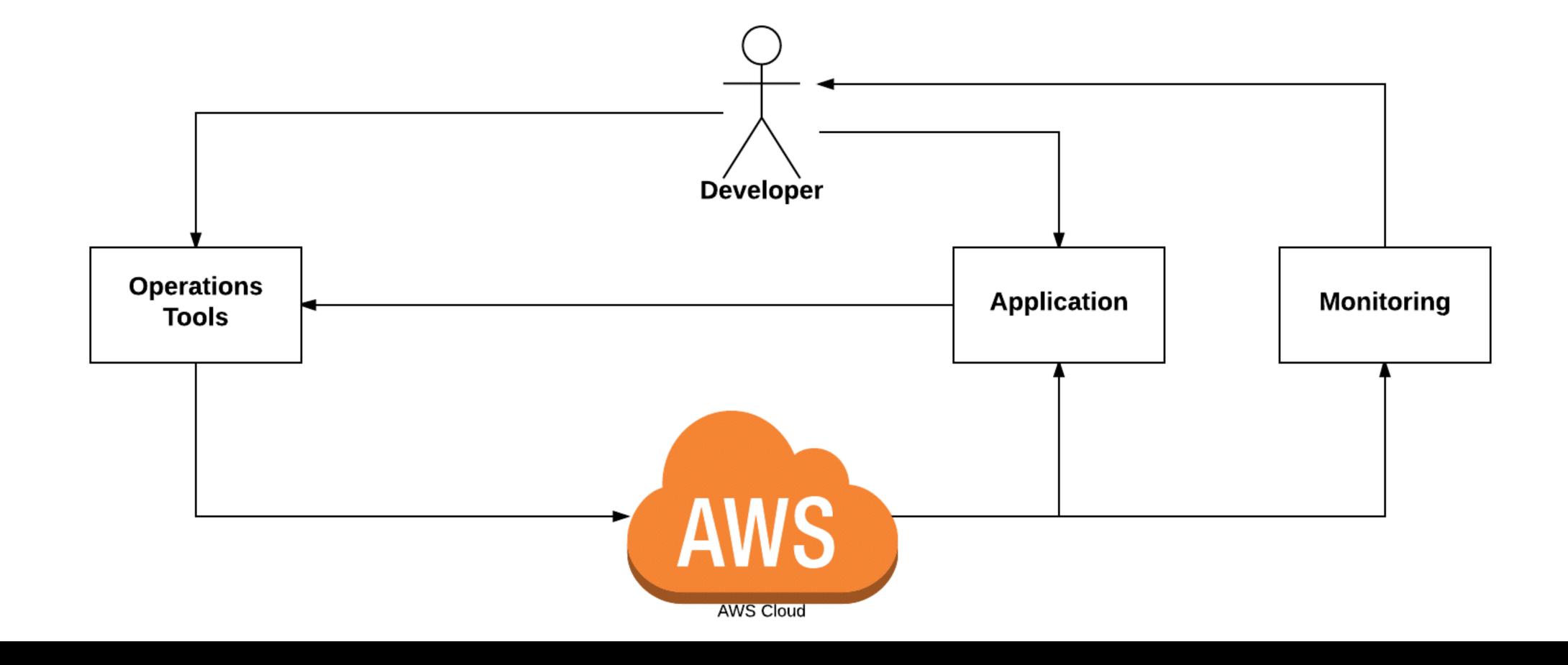






kubernetes







DEPLOYMENT



kubernetes







AWS Code Pipeline

LOGS & METRICS



AWS Cloudwatch





APP

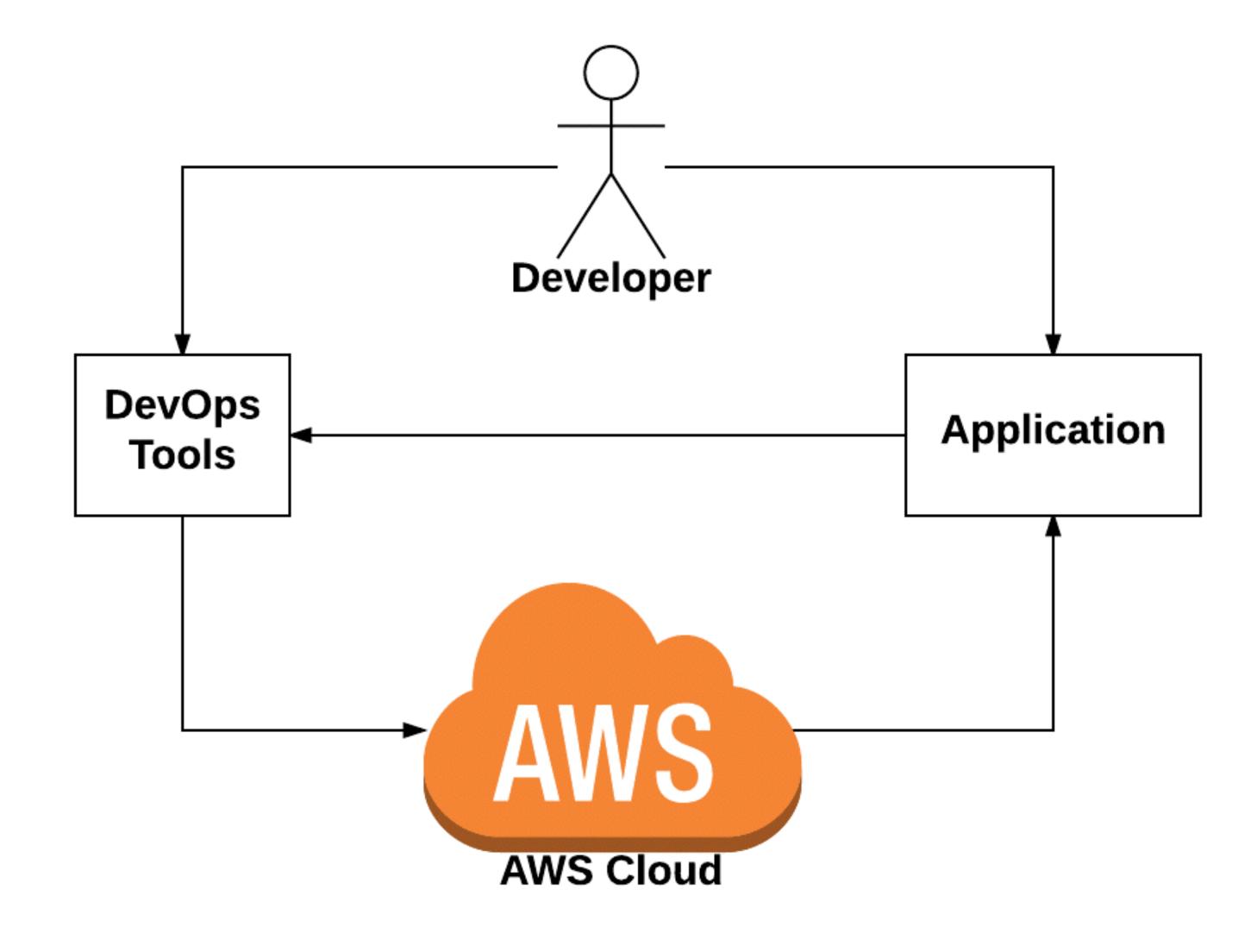














DEPLOYMENT















AWS Code Pipeline

LOGS & METRICS



AWS Cloudwatch

IOpipe







APP

IOpipe





The traditional story is centered on deployment & uptime.



What value do you provide to your business?



What do you *cost* your business?



What do you *SAVE* your business?



Are you pleasing your users?



How do you enable your data scientists?



Key Performance Metrics (KPIs) are critical.



Data-driven development



Agile







Your stateless app has stateful artifacts.



You want to know about your stateless application's state.



You have databases...





You have users?



What percentage of database writes for this customer took over 5ms? 10ms? 100ms?



Which HTTP request stored this file on S3? ... this database record?



How do you track this state?



Which user encountered this error?



What was the chain of API calls made by this user?



How many cursed you?

How many users of your Alexa skill thanked you?



Application metrics > Infrastructure metrics





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