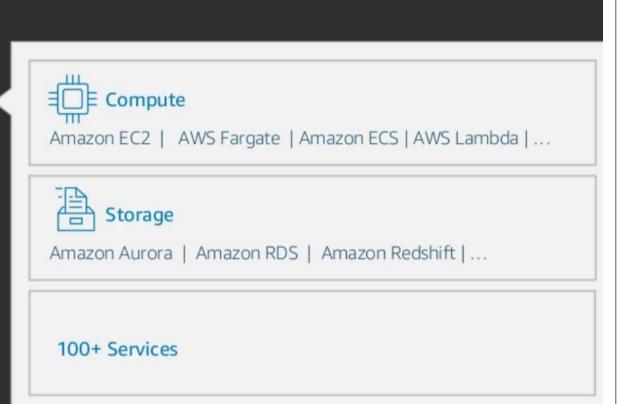
PaaS- Development Environment

Cloud9

By: Tamal Dey, MCA, PESU

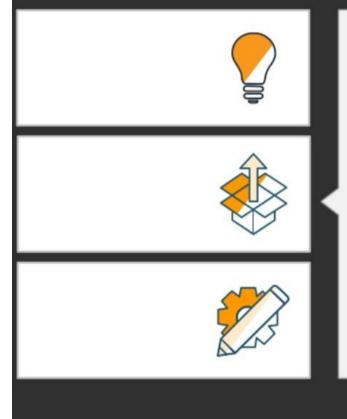
The three pillars of software development

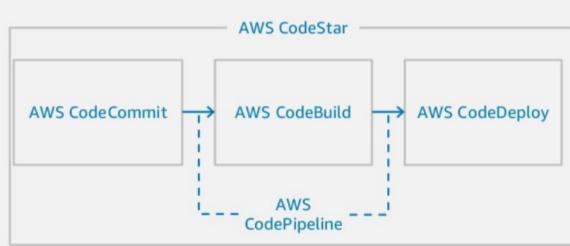
RUN
RELEASE
CREATE





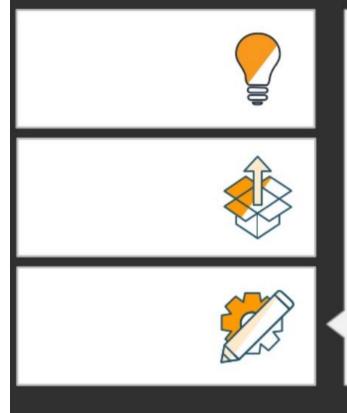
The three pillars of software development







The three pillars of software development







 Developers are building for the cloud, but use local machines



Pain points

- Rely on local machine's hardware/configuration
- Hard to multi-task on various projects
- Difficult to work from multiple locations

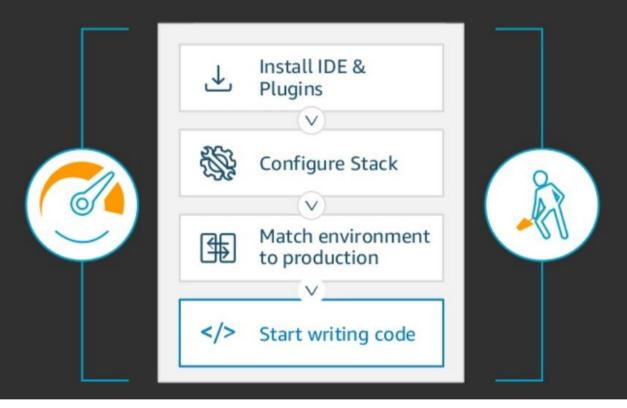
• Why do we build IDE?

- Building applications for cloud but use local machines for development
 - Rely on local machines for hardware and software configuration
 - Hard to do multitask on various projects
 - Difficult to work from multiple locations

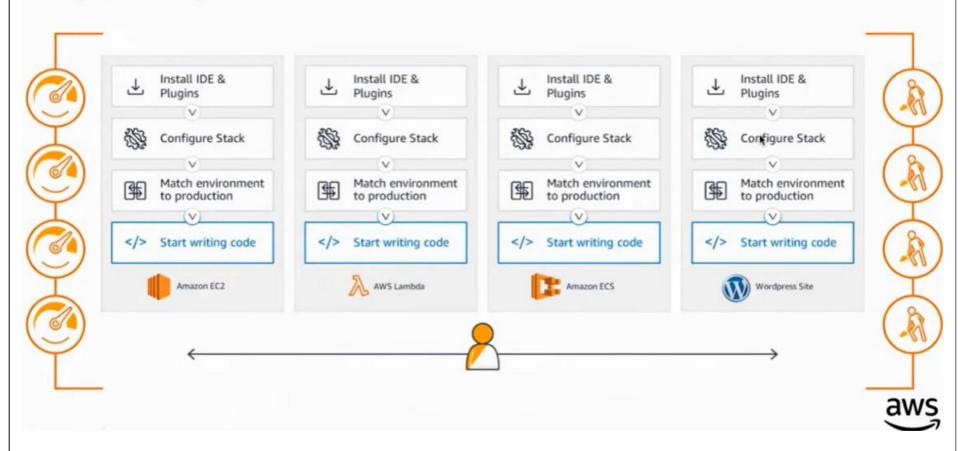
• Relief from:

- Cumbersome (large or heavy)to setup new environment for development
 - Install IDE and plugin
 - Configure your stack such as docker
 - Match the environment in production
 - Start writing code only

2. Cumbersome to set up development environment



Cumbersome to setup development environment (contd.)



Cumbersome to setup development environment (contd.)

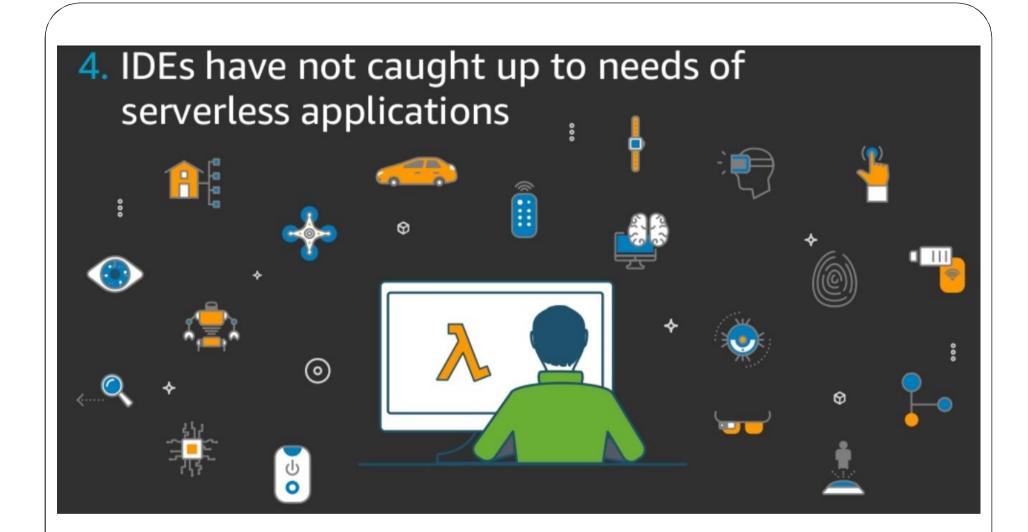


Why need an IDE?

3. Developers need an easier way to collaborate on code Screen sharing tools make us Looking over each other's

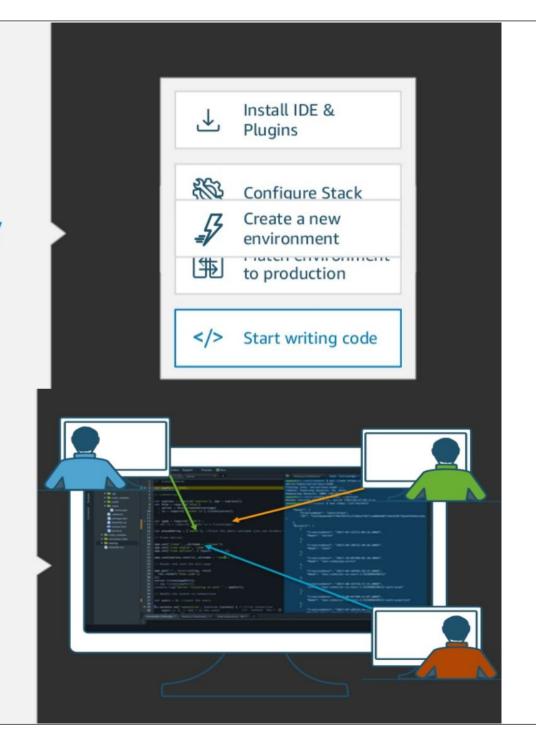
screen does not scale well

constantly switch contexts



Start new projects quickly

Code together in real time

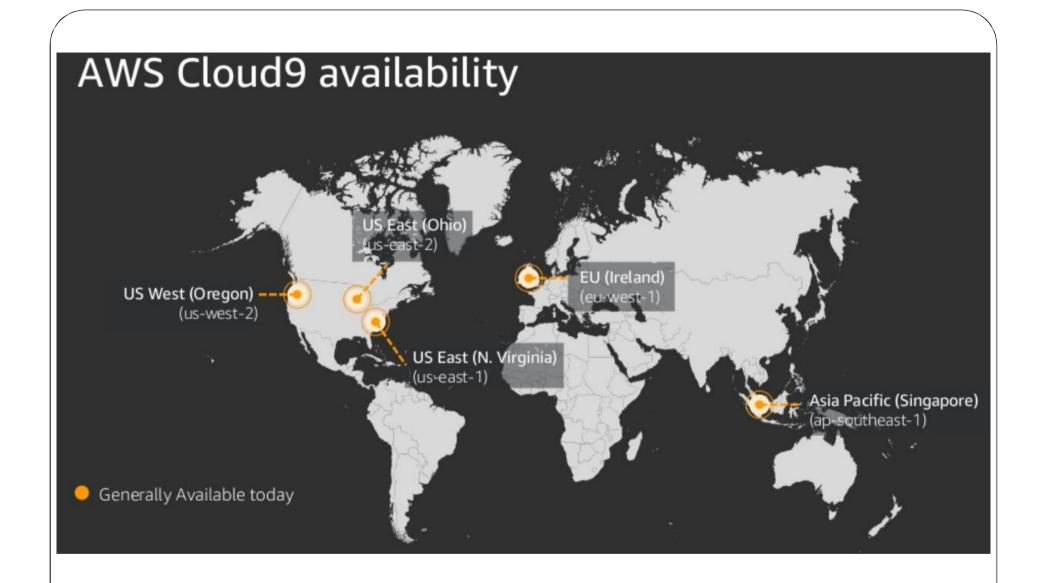


Build serverless applications with ease

Direct terminal access to AWS services







Pricing

Managed EC2

Own Linux Server (SSH)

No Charge for IDE

No Charge for IDE

Standard compute and storage charges to run & store code (Amazon EC2, Amazon EBS)

Cloud9 Features

- IDE in the browser
- Start new projects easily
- Create a new environment
- Code together in real time
- Build serverless applications with ease
- Direct terminal access to aws services

Steps

- Go to cloud9 in devops
- Create a new environment
- Give name
- Select ec2 instance type, where the application to be deployed
- Wait for moment, here we go with cloud9 IDE
- Search for CloudFormation in service link(Top left corner)
- Go to terminal and type
 - Ubuntu commands: top
 - Git clone: visit index.html, demo.js, hello.rb, info.php
 - console.log(bar.abc);

- Click on AWS Resources [Right Side] (<u>static-demo</u> Project Link)
 - Lamda function
 - { "payload":"testing"}
 - callback(event);
 - To Share the IDE with Team Mates [Right Corner]
 - Create IAM role
 - Create username and assign to a Group. Name the group
 - Add Cloud9 Administrative Permission
 - Add IAM User to your IDE
 - Provide the access link from IAM URI

Reading resources

- https://www.youtube.com/watch?v=FvcILeg2vEQ
- Code resource:
 - git clone https://github.com/Atlas7/demo-project
 - git clone https://github.com/nonken/static-demo.git
 - https://docs.c9.io/docs/