



INNOVATE2018

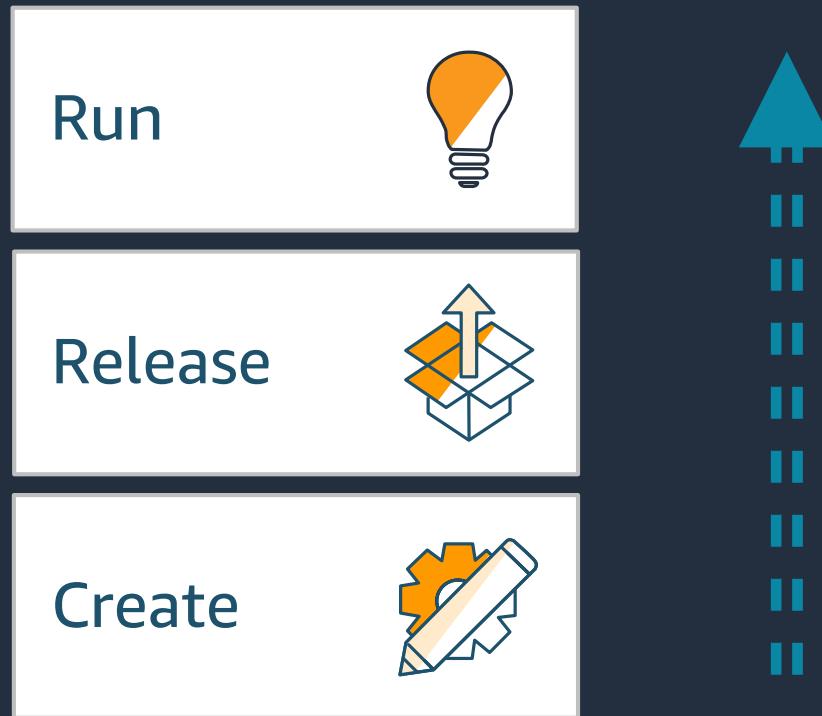
ONLINE CONFERENCE



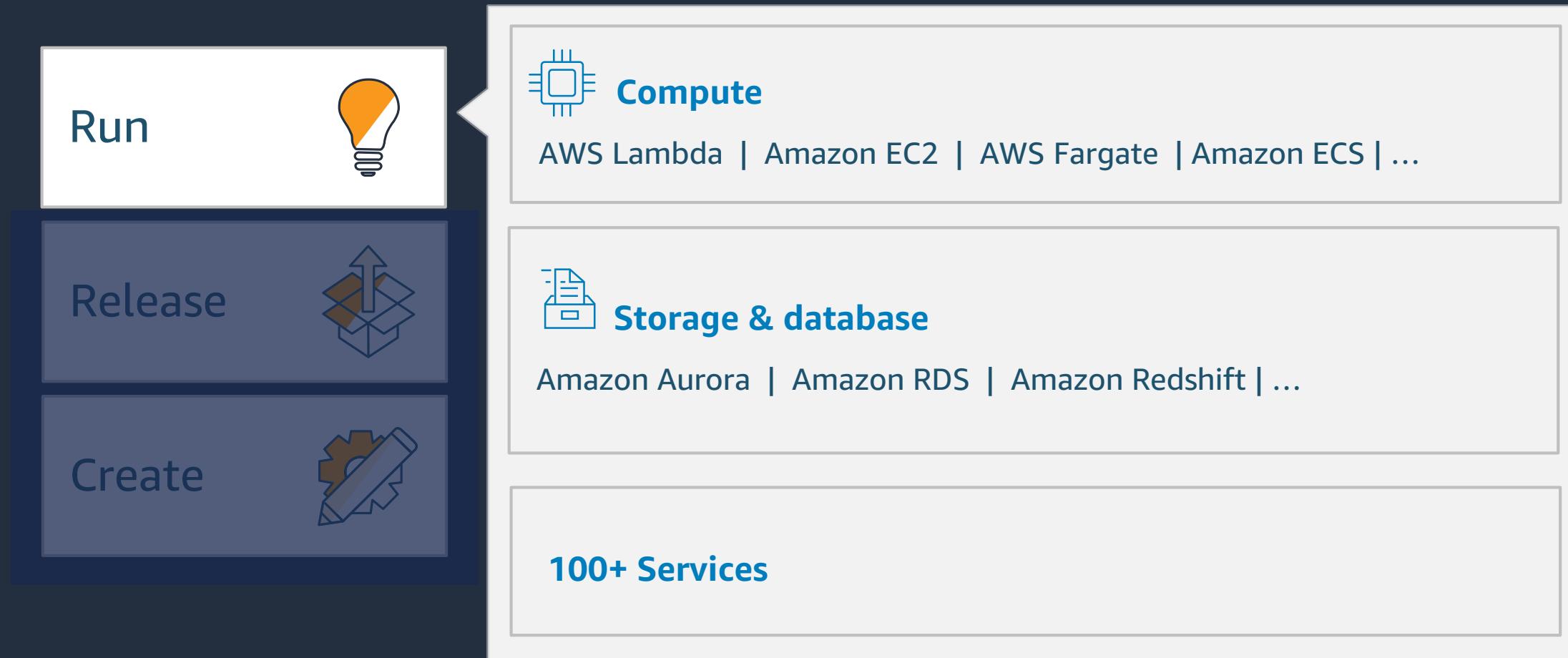
Streamline Your Serverless Development with AWS CodeStar and AWS Cloud9 (Level 200)

Rohini Gaonkar, Solution Architect

3 Pillars Of Software Development



3 Pillars Of Software Development



3 Pillars Of Software Development

Run



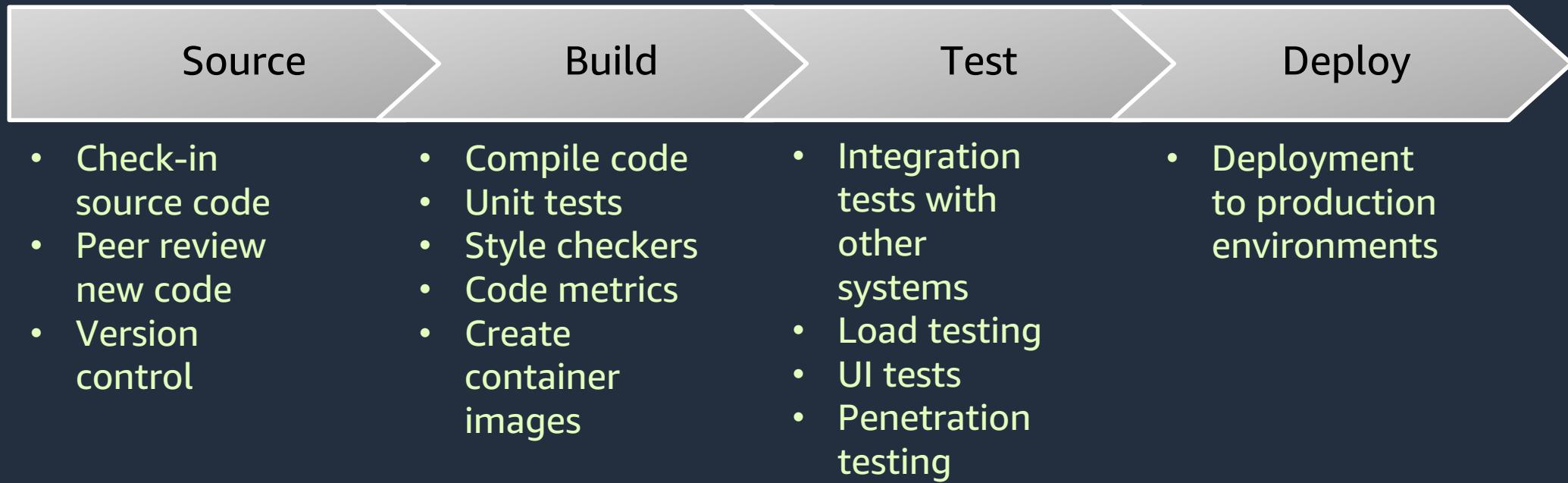
Release



Create



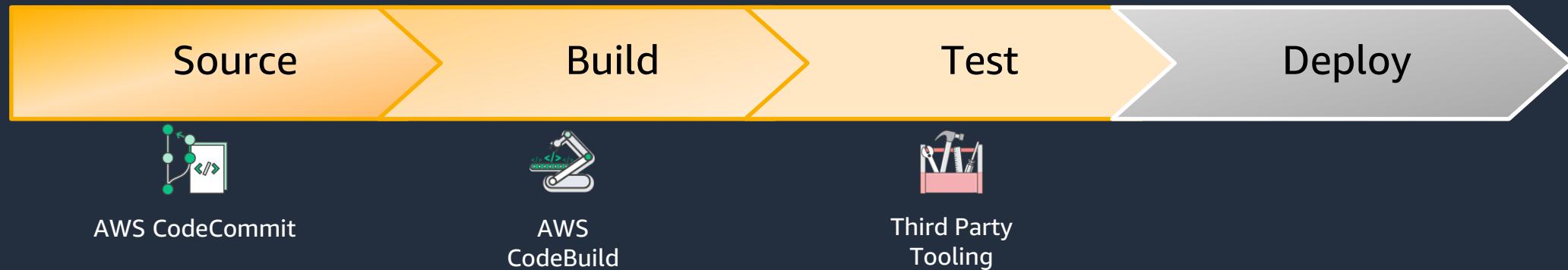
Release: AWS Code Services



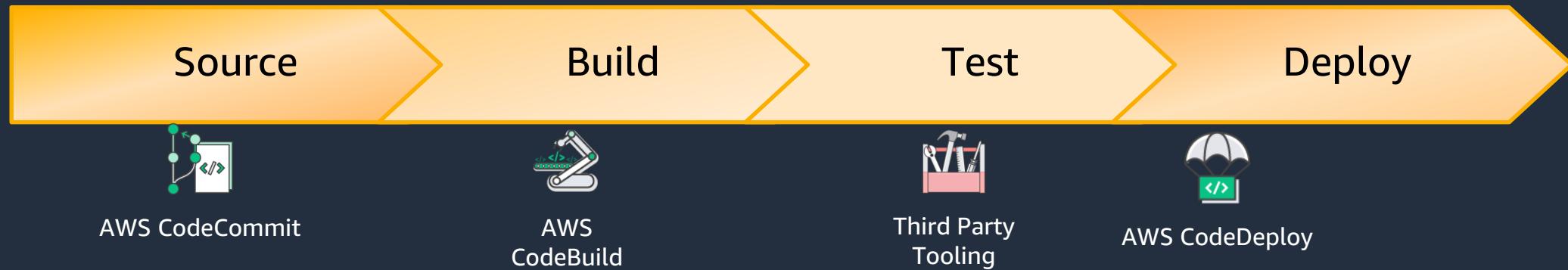
Release: AWS Code Services



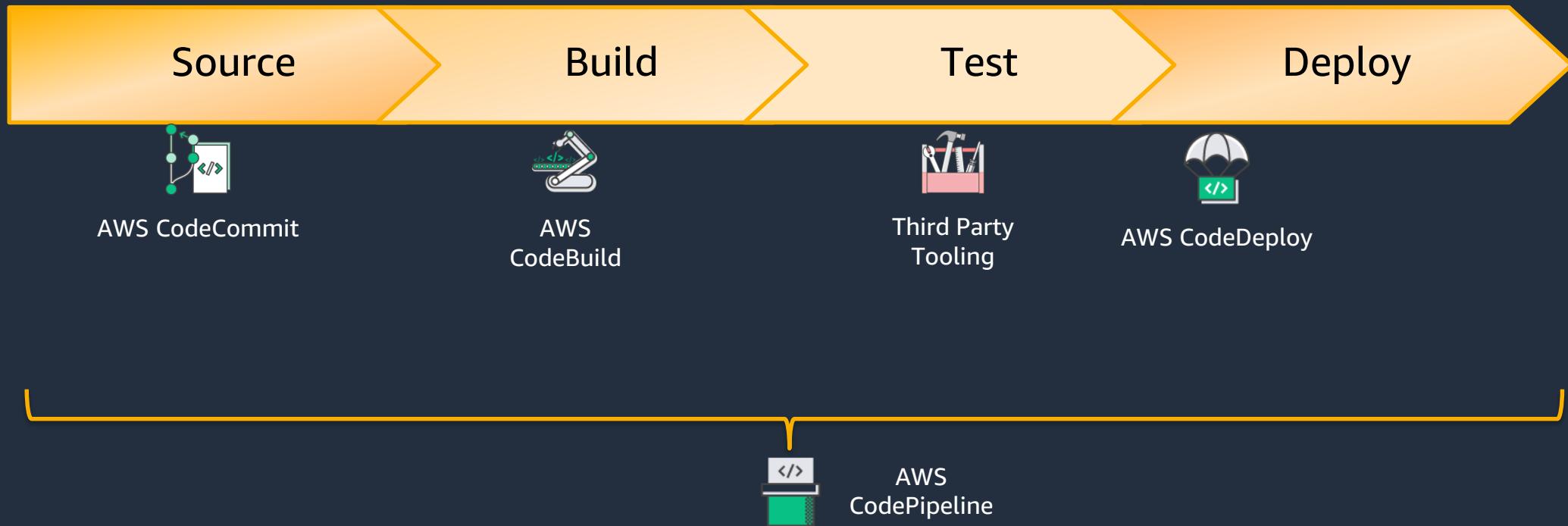
Release: AWS Code Services



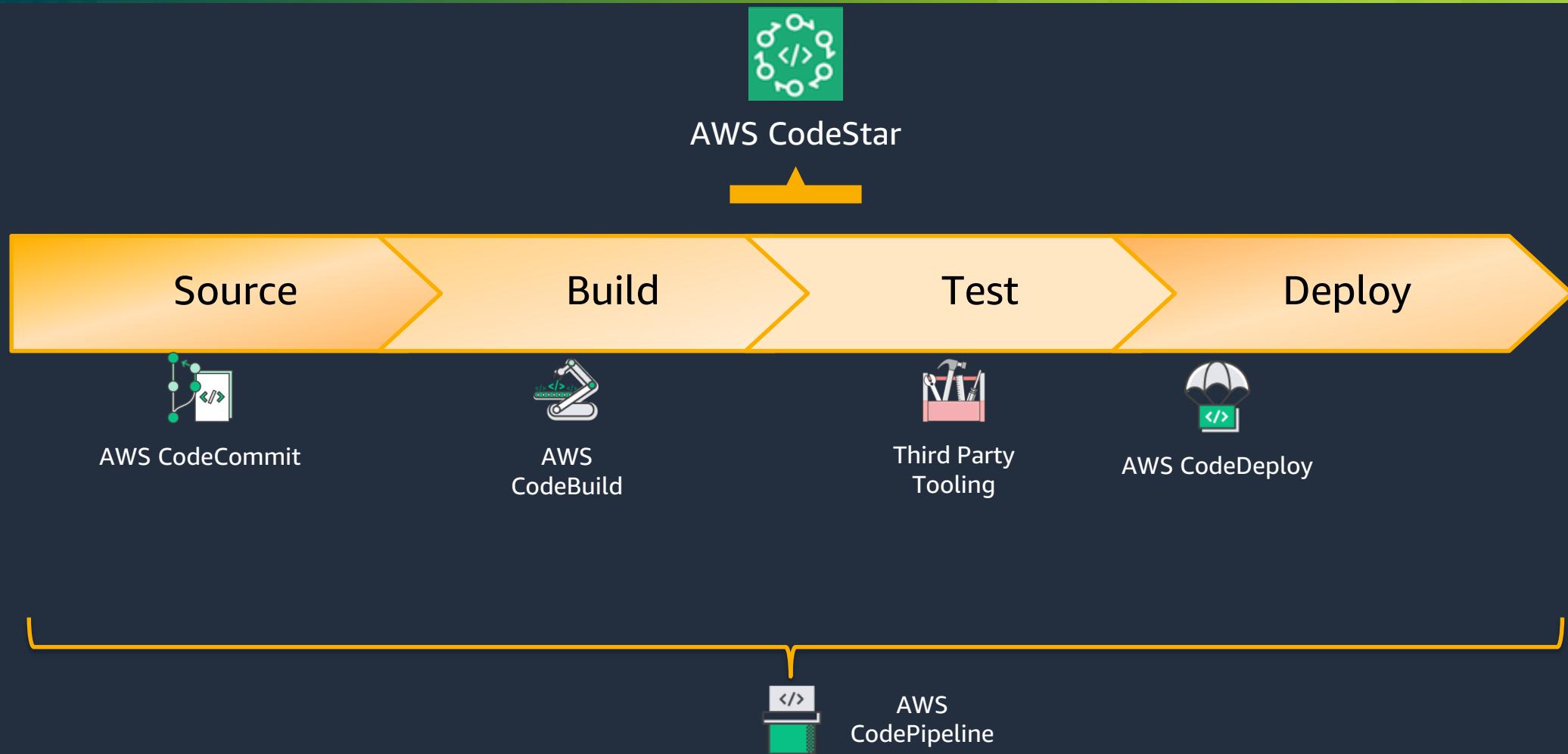
Release: AWS Code Services



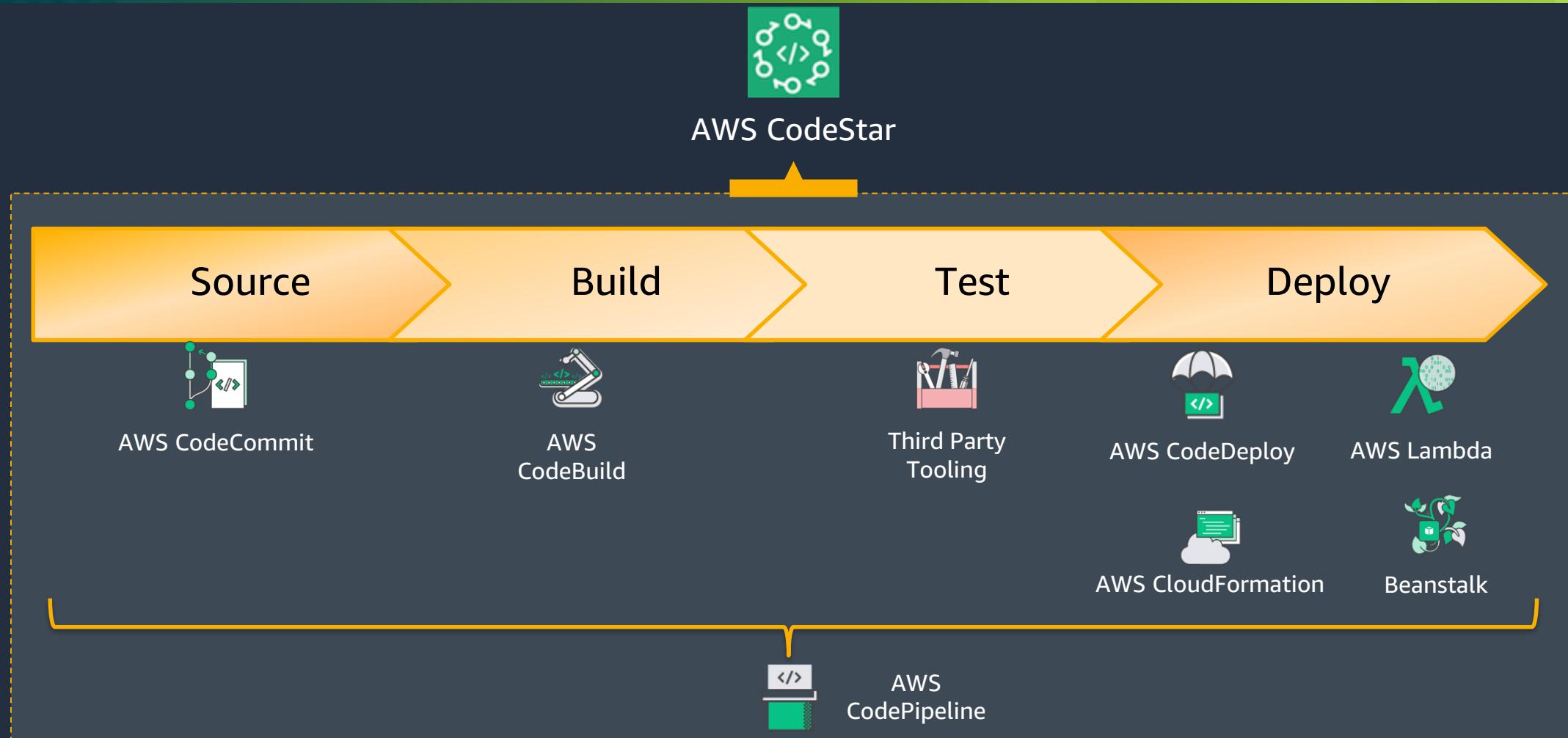
Release: AWS Code Services



Release: AWS Code Services

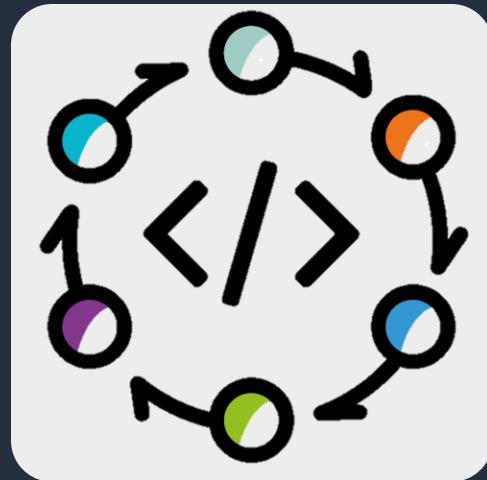


Release: AWS Code Services



AWS CodeStar

Quickly develop, build, and deploy applications on AWS



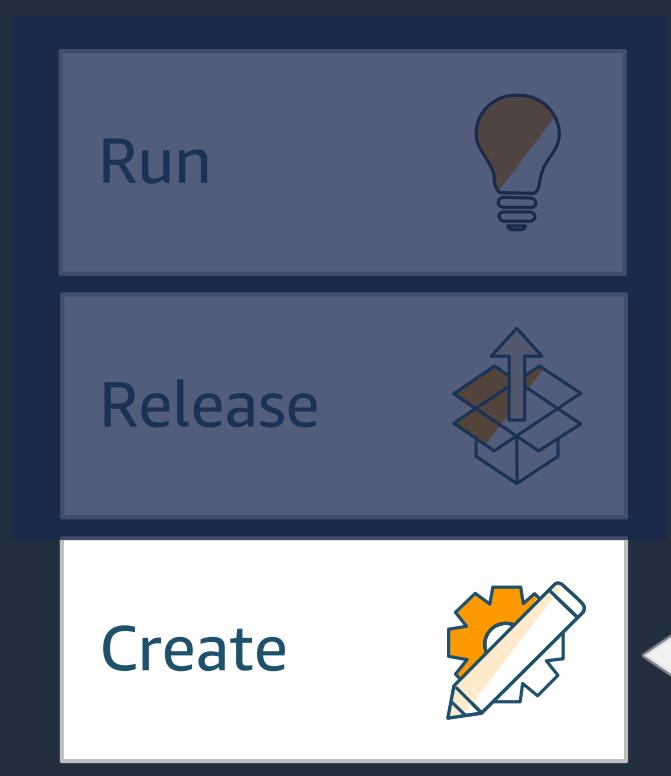
Start developing on AWS in minutes

Work across your team, securely

Manage software delivery easily

Choose from a variety of project templates

3 Pillars Of Software Development



AWS Cloud9

A cloud IDE for writing, running, and debugging code

AWS Cloud9

Cloud-based integrated development environment



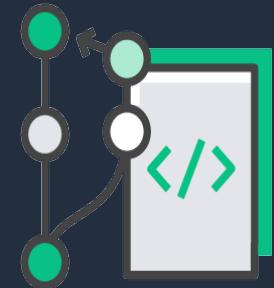
Code with just a web browser

Fully-featured IDE

Build serverless applications

Collaborate in real-time

AWS Code Services & Tools



AWS CodeCommit



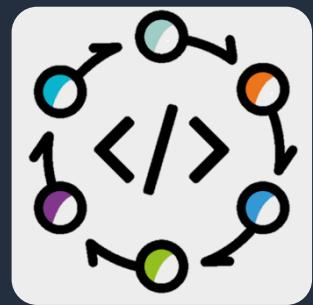
AWS CodeBuild



AWS CodeDeploy



AWS CodePipeline



AWS CodeStar

+



+

Software
Development Kits
(SDKs)

Start new projects quickly



+



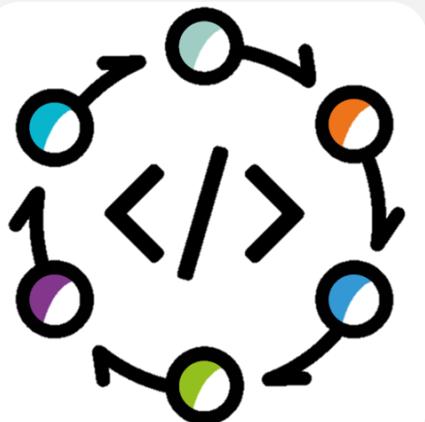
Install IDE & Plugins

Configure Dev Stack

Configure CI/CD Pipeline

</> Start writing code

Start new projects quickly



+



↓ Install IDE & Plugins

Create a new
AWS CodeStar project &
choose
AWS Cloud9 IDE

</> Start writing code

Streamline CI/CD pipeline creation



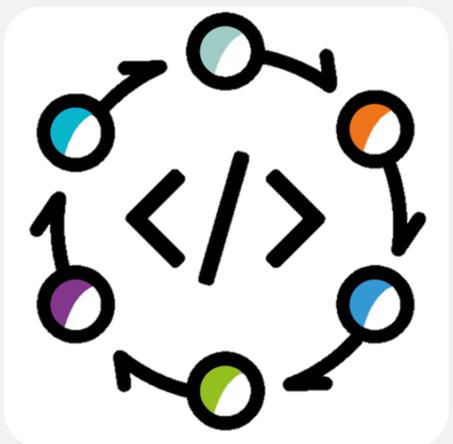
+





```
 1 // Customization
 2 // -----
 3 var appPort = 3001;
 4
 5 // Libraries
 6 var express = require('express'), app = express();
 7 var http = require('http');
 8 var server = http.createServer(app);
 9
10 // Load socket.io
11 var io = require('socket.io').listen(server);
12
13 var jade = require('jade');
14 // var io = require('socket.io').listen(app);
15
16 var pseudoArray = ['admin']; //block the admin username (you can disable
17 // this in the config file)
18
19 // Views
20 // -----
21 app.set('views', __dirname + '/views');
22 app.set('view engine', 'jade');
23
24 app.use(express.static(__dirname + '/public'));
25
26 // Render and send the main page
27
28 app.get('/', function(req, res){
29   res.render('home.jade');
30 });
31
32 server.listen(appPort);
33
34 // Listen for socket.io connections
35
36 var users = 0; //count the users
37
38 // sockets.on'connection' - Function (socket) { // First connection
39   users += 1; // Add to the count
40 }
41
42 // socket.on'message' - Function (data) {
43   // do something with the data
44 }
45
46 // socket.on'close' - Function (socket) {
47   // do something when the user disconnects
48 }
```

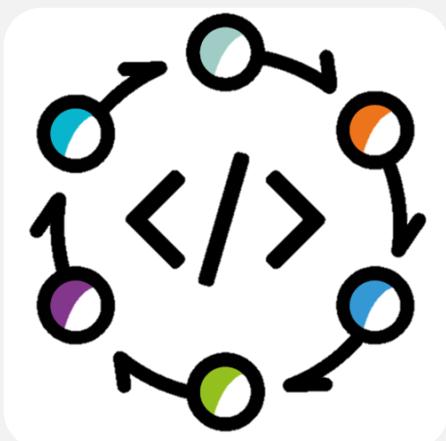
Code with just a browser



+



Build serverless applications easily



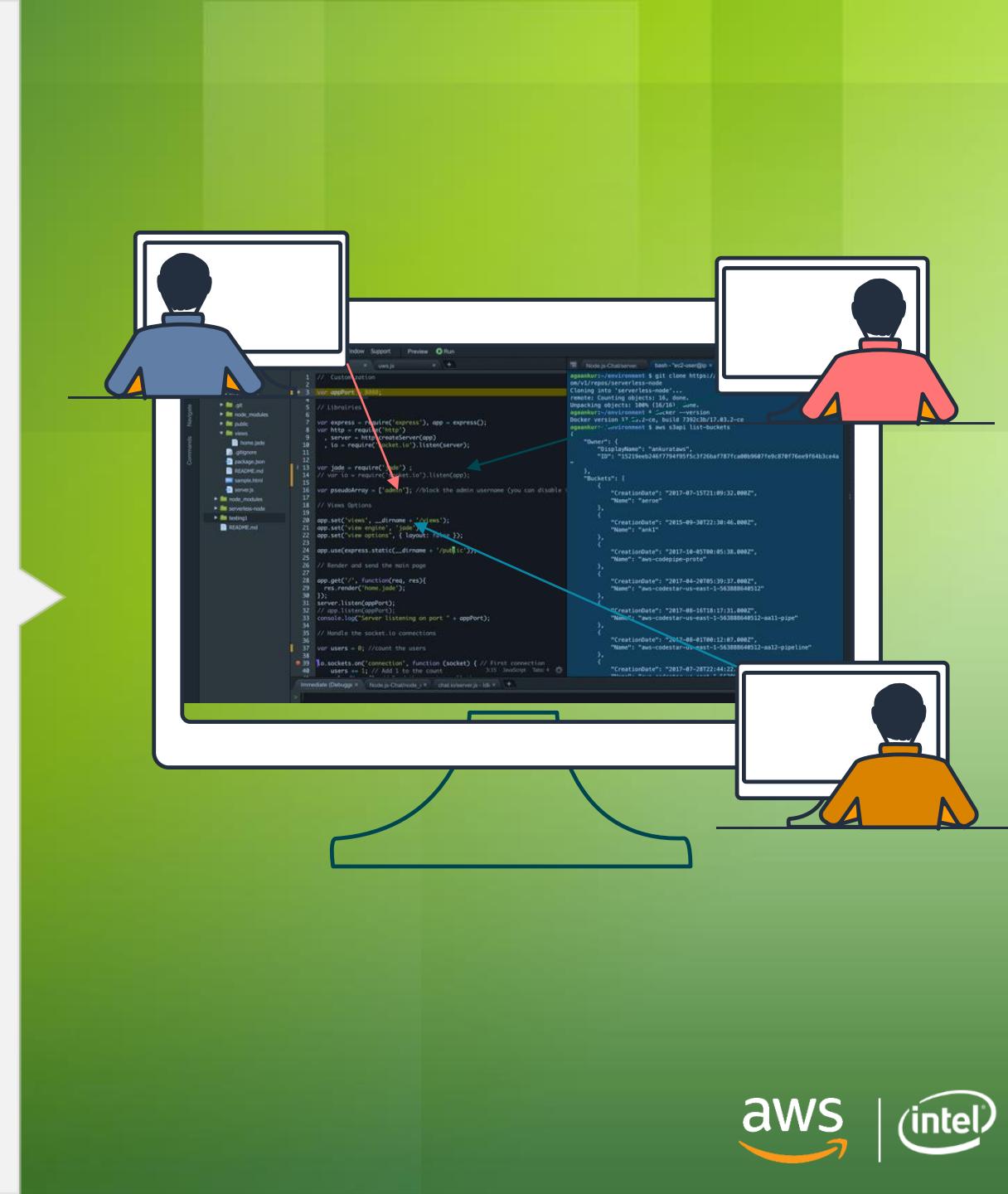
+



Code together in real time



+



Let's go to the console!

Step 1: Build a simple NodeJS app in AWS CodeStar



Services ▾

Resource Groups ▾



Rohini Gaonkar ▾

Singapore ▾

Support ▾

AWS CodeStar

+ Create a new project

Select template

Set up tools

Start coding



Application category

 Web application Web service Static Website AWS Config Rule

Programming languages

 C# Go HTML 5 Java Node.js PHP Python

Choose a project template

Start a new software project on AWS Lambda



Go



Web application

AWS Lambda
(running serverless)

Create service role

AWS CodeStar would like permissions to administer AWS resources and IAM permissions on your behalf. IAM users with CodeStar Full Access will be able to create and manage CodeStar project resources and grant other IAM users in this account access to those resources. Is this ok?

You must be logged in as an IAM administrative user in order to create the service role.

To learn more and view the service role policy, see the [AWS CodeStar User Guide](#).

Express

Express.js



Web service

AWS Lambda
(running serverless)

HTML



Static Website

Amazon EC2
(runs on virtual servers that you manage)

Python



Web service

AWS Lambda
(running serverless)

Java Spring



Web service

AWS Lambda
(running serverless)

Select template Set up tools Start coding



Filter

Application category

 Web application Web service Static Website AWS Config Rule

Programming languages

 C# Go HTML 5 Java Node.js PHP Python

Choose a project template

Start a new software project on AWS in minutes using a project template. [Help me choose](#)

Go



Web application

AWS Lambda
(running serverless)

Node.js



Web application

AWS Lambda
(running serverless)

Python



Web service

AWS Lambda
(running serverless)

Express

Express.js



Web service

AWS Lambda
(running serverless)

HTML



Static Website

Amazon EC2
(runs on virtual servers that you manage)

Java Spring



Web service

AWS Lambda
(running serverless)

Project name

nodejs-app

Project ID i

Edit

nodejs-app

Which repository do you want to use?

AWS CodeStar will store the project's source code with the service you choose here.



AWS CodeCommit

Highly available Git source control from AWS.
Includes encryption, IAM integration, and more.



GitHub

Creates a GitHub source repository for this
project. Requires an existing GitHub account.

Repository name

nodejs-app

Previous

Next

Review project details

AWS CodeStar includes all of the tools and services you need for a development project.

This project includes an AWS CodePipeline connected with the following tools:



Source



Build



Test



Deploy



Monitoring

AWS CodeCommit

AWS CodeBuild

AWS CloudFormation

Amazon CloudWatch

AWS CodeStar would like permission to administer AWS resources on your behalf. [Learn more](#)

[Previous](#)

[Create Project](#)

Pick how you want to edit your code



AWS Cloud9

Edit your AWS CodeStar project code with a cloud-based IDE that includes a command line interface. [More info](#)



Command line tools

Edit AWS CodeStar project code by connecting directly to your project's Git source repository.



Eclipse

Configure the AWS Toolkit for Eclipse to edit your AWS CodeStar project code in Eclipse.



Visual Studio

Configure the AWS Toolkit for Visual Studio to edit your CodeStar project code in Microsoft Visual Studio 2015 and later.

You can switch tools at **any time**.

Skip

Next

Set up your AWS Cloud9 environment

Pick an instance type for this environment (not your overall project)

Recommended instances

Other types



t2.micro

1 GiB RAM + 1 vCPU. Ideal for educational use and exploration. FREE TIER ELIGIBLE



t2.small

2 GiB RAM + 1 vCPU. Recommended for small-sized web projects.



m3.medium

3.75 GiB RAM + 1 vCPU. Recommended for production and general-purpose development.

▼ Network settings (advanced)

VPC [Learn more](#)

vpc-c02037a2 (Default)

[Create VPC](#)

Subnet

subnet-e7e3d393 (ap-southeast-1a)

[Create subnet](#)

▶ Environment name and description

▼ Cost-saving settings

To prevent unnecessary charges, you can shut down this environment after you're done with it.

When you reopen the environment, it will appear just as you left it.

Shut down environment

After 30 minutes

[Previous](#)[Next](#)



Dashboard



IDE



Code



Build



Pipeline



Team



Extensions



Project

Project setup

AWS CodeStar project

✓ Project successfully created.

IDE

⌚ Setting up AWS Cloud9. This can take a few minutes.

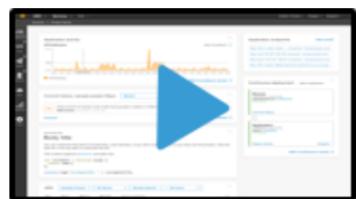
Add tile



Welcome to nodejs-app!

Close

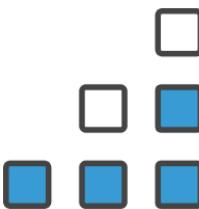
Let us help you get started.



[Learn about AWS CodeStar](#)



[Set up your team](#)



[Configure issue tracking](#)

[Add tile](#)

Dashboard



IDE



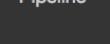
Code



Build



Pipeline



Team



Extensions



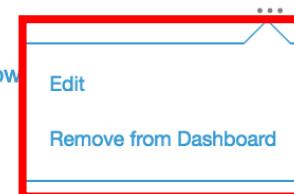
Project

Team wiki tile

Edit this tile to save your own project links, code samples and notes to share with your team. You can use [markdown](#).

Some other things to try in your project...

1. [Access your application](#)
2. Read "What do I do next?" in README.md in project source repository
3. [Add team members](#)
4. Set up issue tracking (under "Extensions")
5. [Customize project dashboard](#)
6. [View AWS CodeStar documentation](#)
7. [Visit the AWS CodeStar forum](#)



Commit history: nodejs-app

[master](#)

Initial commit made by AWS CodeStar during project creation.
AWS CodeStar committed 2 minutes ago

0880dcd

[Connect](#)[AWS CodeCommit details](#)

AWS Cloud9 environments
[See my environments](#)

Application endpoints

Continuous deployment

AWS CodePipeline

[Release change](#)

Source
5/17/2018, 8:27:52 PM
ApplicationSource [CodeCommit](#)
Succeeded

[Commit history](#)

[Add tile](#)

Team wiki tile

Edit this tile to save your own project links, code samples and notes to share with your team. You can use [markdown](#).

Some other things to try in your project...

[Edit](#)[Remove from Dashboard](#)

1. [Access your application](#)
2. Read "What do I do next?" in README.md in project source repository
3. [Add team members](#)
4. Set up issue tracking (under "Extensions")
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7. [Visit the AWS CodeStar forum](#)

Commit history: nodejs-app

master



Initial commit made by AWS CodeStar during project creation.
AWS CodeStar committed 2 minutes ago

0880dcd

[Connect](#)[AWS CodeCommit details](#)

Continuous deployment

AWS CodePipeline

[Release change](#)

Source

5/17/2018, 8:27:52 PM
ApplicationSource [CodeCommit](#)
Succeeded

Commit history

Build

5/17/2018, 8:30:04 PM
PackageExport [CodeBuild](#)
Succeeded

Deploy

5/17/2018, 8:30:11 PM
GenerateChangeSet [CloudFormation](#)
In progress

Deploy history



Dashboard



IDE



Code



Build



Deploy



Pipeline



Team



Extensions



Project



Success! Your project and IDE are set up and ready to use.

Dismiss

View your app

Start coding

Add tile

Commit history: nodejs-app

master

AC Initial commit made by AWS CodeStar during project creation.
AWS CodeStar committed 8 minutes ago

0880dcd

Connect

AWS CodeCommit details

Application activity



Amazon CloudWatch



9 AWS Cloud9 environments

See my environments

Application endpoints

<https://qlbii5i9pf.execute-api.ap-southeast-1.amazonaws.com>

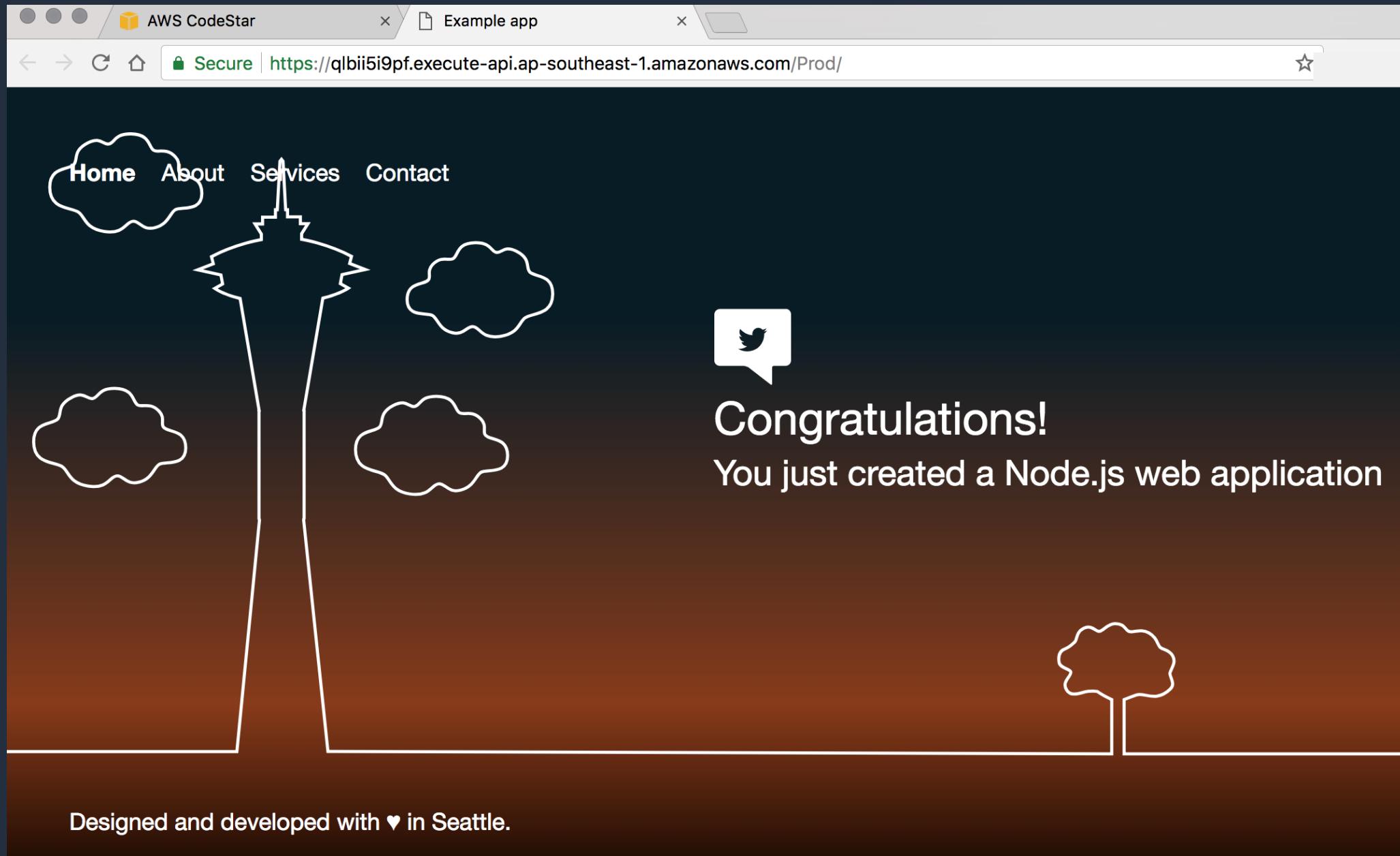
Continuous deployment

AWS CodePipeline

Release change

Source

5/17/2018, 8:27:52 PM
ApplicationSource CodeCommit
Succeeded



Step 2: Change Then Deploy Your Application



Dashboard



IDE



Code



Build



Deploy



Pipeline



Team



Extensions



Project



Success! Your project and IDE are set up and ready to use.

Dismiss

View your app

Start coding

Add tile

Commit history: nodejs-app

master

AC Initial commit made by AWS CodeStar during project creation.
AWS CodeStar committed 8 minutes ago

0880dcd



AWS Cloud9 environments

See my environments

Connect

AWS CodeCommit details

Application activity



Application endpoints

<https://qlbii5i9pf.execute-api.ap-southeast-1.amazonaws.com...>

Continuous deployment

AWS CodePipeline

Release change

Source
5/17/2018, 8:27:52 PM
ApplicationSource CodeCommit
Commit 0880dcd



Dashboard



IDE



Code



Build



Deploy



Pipeline



Team



Extensions



Project

Integrated Development Environments (IDEs)



▼ Your AWS Cloud9 environments

[Create new environment](#)

nodejs-app

Type ec2 Role owner

Description
Created from CodeStar.

[Open IDE](#)

▼ Shared AWS Cloud9 environments

No environments are shared with you.

► All AWS Cloud9 environments in this project

The screenshot shows the AWS Cloud9 IDE interface. At the top, there are three tabs: "AWS CodeStar", "nodejs-app - AWS Cloud9", and "Example app". The "nodejs-app - AWS Cloud9" tab is active. The URL in the address bar is <https://ap-southeast-1.console.aws.amazon.com/cloud9/ide/9808639fd4d64d529e6ecb1830e49071?#>. The main workspace displays the "Welcome" screen of the AWS Cloud9 IDE, which includes developer tools and a large "AWS Cloud9" logo. Below the logo, it says "Welcome to your development environment". A message explains that AWS Cloud9 allows writing, running, and debugging code via browser, with links to tour the IDE, write code for AWS Lambda and Amazon API Gateway, and share. The terminal window shows a session where a repository was cloned:

```
bash - "ip-172-31" Immediate (Java) bash - "ip-172-31"
/tmp/git-cloning-runner-1526569544476-063723261198.sh
/tmp/git-cloning-runner-1526569544476-063723261198.sh
ec2-user:~/environment $ /tmp/git-cloning-runner-1526569544476-063723261198.sh
Cloning into '/home/ec2-user/environment/nodejs-app'...
remote: Counting objects: 19, done.
Unpacking objects: 100% (19/19), done.
```

Below the terminal, instructions are provided for navigating to the cloned repository and setting display name and email:

Navigate to your cloned repository by typing "cd /home/ec2-user/environment/nodejs-app" to start working with "<https://git-codecommit.ap-southeast-1.amazonaws.com/v1/repos/nodejs-app>"

To set your display name run "git config --global user.name YOUR_USER_NAME"
To set your display email run "git config --global user.email YOUR_EMAIL_ADDRESS"

```
ec2-user:~/environment $ pwd
/home/ec2-user/environment
ec2-user:~/environment $ cd nodejs-app/
ec2-user:~/environment/nodejs-app (master) $
ec2-user:~/environment/nodejs-app (master) $ pwd
/home/ec2-user/environment/nodejs-app
ec2-user:~/environment/nodejs-app (master) $
```

The left sidebar shows the "Environment" section with a "nodejs-app" folder containing "nodejs-app" and "README.md". The right sidebar has sections for "Collaborate", "Outline", "AWS Resources", and "Debugger". The bottom right corner features the AWS and Intel logos.

AWS CodeStar nodejs-app - AWS Cloud9 Example app

Secure | https://ap-southeast-1.console.aws.amazon.com/cloud9/ide/9808639fd4d64d529e6ecb1830e49071?#

AWS Cloud9 File Edit Find View Goto Run Tools Window Support Preview Run R Share

Environment Navigate Commands AWS Resources Collaborate Outline Debugger

Welcome

Developer Tools

AWS Cloud9

Welcome to your development environment

AWS Cloud9 allows you to write, run, and debug your code with just a browser. You can [tour the IDE](#), [write code for AWS Lambda and Amazon API Gateway](#), [share](#)

```
bash - "ip-172-31" Immediate (Java) bash - "ip-172-31"
/tmp/git-cloning-runner-1526569544476-063723261198.sh
/tmp/git-cloning-runner-1526569544476-063723261198.sh
ec2-user:~/environment $ /tmp/git-cloning-runner-1526569544476-063723261198.sh
Cloning into '/home/ec2-user/environment/nodejs-app'...
remote: Counting objects: 19, done.
Unpacking objects: 100% (19/19), done.

Navigate to your cloned repository by typing "cd /home/ec2-user/environment/nodejs-app" to start working with "https://git-codecommit.ap-southeast-1.amazonaws.com/v1/repos/nodejs-app"

To set your display name run "git config --global user.name YOUR_USER_NAME"
To set your display email run "git config --global user.email YOUR_EMAIL_ADDRESS"

ec2-user:~/environment $ pwd
/home/ec2-user/environment
ec2-user:~/environment $ cd nodejs-app/
ec2-user:~/environment/nodejs-app (master) $
ec2-user:~/environment/nodejs-app (master) $ pwd
/home/ec2-user/environment/nodejs-app
ec2-user:~/environment/nodejs-app (master) $
```

git config --global user.name YOUR_USER_NAME

git config --global user.email YOUR_EMAIL_ADDRESS

This screenshot shows the AWS Cloud9 IDE interface. At the top, there are three tabs: 'AWS CodeStar', 'nodejs-app - AWS Cloud9', and 'Example app'. The 'nodejs-app - AWS Cloud9' tab is active. The URL in the address bar is 'https://ap-southeast-1.console.aws.amazon.com/cloud9/ide/9808639fd4d64d529e6ecb1830e49071?#'. The main window displays the 'Welcome' screen of AWS Cloud9, featuring the title 'AWS Cloud9' and 'Welcome to your development environment'. Below this, a message explains the IDE's purpose and links to tour the IDE, write code for AWS Lambda and Amazon API Gateway, and share. A terminal window is open at the bottom, showing a bash session. The session starts with cloning a repository from GitHub ('git clone https://git-codecommit.ap-southeast-1.amazonaws.com/v1/repos/nodejs-app') into the user's environment directory. It then provides instructions for setting the user's display name and email using 'git config'. Finally, it shows the user navigating to the cloned repository ('cd nodejs-app') and checking the current directory ('pwd'). On the left side, there's a sidebar with sections for 'Environment', 'Navigate', 'Commands', and 'AWS Resources'. On the right side, there are buttons for 'Collaborate', 'Outline', and 'Debugger'. The bottom of the screen includes the AWS and Intel logos.

```
% E I % P
```

README.md
/README.md

buildspec.yml
/nodejs-app/buildspec.yml

index.js
/nodejs-app/index.js

package.json
/nodejs-app/package.json

README.md
/nodejs-app/README.md

template.yml
/nodejs-app/template.yml

index.html
/nodejs-app/public/index.html

gradients.css
/nodejs-app/public/assets/css/grad

styles.css
/nodejs-app/public/assets/css/style

tweet.svg
/nodejs-app/public/assets/img/tweet

set-background.js
/nodejs-app/public/assets/js/set-ba

test.js
/nodejs-app/tests/test.js

Welcome index.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <title>Example app</title>
7   <meta name="description" content="" />
8   <link href="assets/css/styles.css" rel="stylesheet">
9   <link href="assets/css/gradients.css" rel="stylesheet">
10 </head>
11
12 <body class="">
13   <div class="wrapper">
14     <div class="graphics">
15       <div class="tower">
16         <svg version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" x="0px" y="0px"
17           viewBox="-11 170 1000 429" enable-background="new -11 170 1000 429" xml:space="preserve">
18           <path class="path" fill="none" stroke="#FFFFFF" stroke-width="2" stroke-miterlimit="10" d="M989,595H712v-35c0,0,4.5-1.8,8-3
19             c5.2-1.8,12.5,5.3,22-4c3.4-3.4-0.9-7.8-0.4-10.1c0.7-3.1,4.4-6.8,
20             c-5.6-3.1-9.9,0.2-13-1c-2.5-0.9-2.3-5-9-5c-4.8,0-7.2,4.8-10,5c-2
21             c-2.6,0.9-4.9,3-4,8.8c0.6,3.7,6.8,4.1,7.5,6c1,2.9-6.4,6.2-2.5,12
22             l-506-1.5L182.3,444l0.3-0.8v-69.6l-0.2-0.2l12.3-72.3c10.9-2.6,16
23             c-15.8-8.3-32.2-11-32.2-11v-3.6l4.1-6.5h-4.9v-4.4h-8.3V244h-1.2l
24             14.1,6.5v3.6c0,0-16.5,2.7-32.2,111.2,4.6l-10.1,3.9l15,3.3l1.1,5
25             l0.3,0.8l-14.6,149.4h-1.2H-11"/>
26
27           <path class="path" fill="none" stroke="#FFFFFF" stroke-width="2" stroke-miterlimit="10" d="M8,393.7c0-13.5,12.1-10.8,15.6-14.7
28             c2.8-3.2-1-8.8,9-13.9c7.9-4.1,9.7,1,13.1 a 8c1.5-0.3-3.3-3.6-7.14.
c3.8,4,1.3,7.4,2.5,9.8c2.2,4.4,14.7,0.9,
```

bash - ip-172-31

Immediate (Java)

bash - ip-172-31

```
/tmp/git-cloning-runner-1526569544476-063723261198.sh
ec2-user:~/environment/nodejs-app (master) $
```

AWS Cloud9 File Edit Find View Goto Run Tools Window Support Preview Run R Share

Environment nodejs-app nodejs-app README.md

Collaborate Outline AWS Resources Debugger

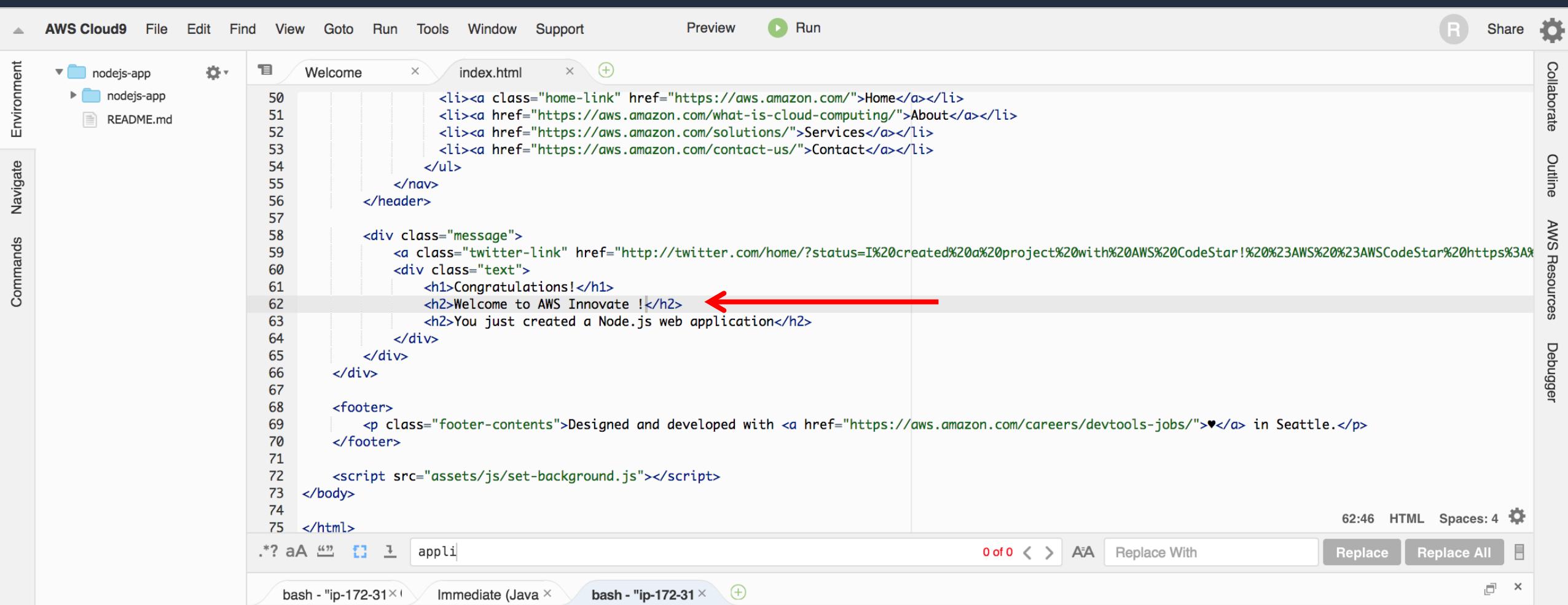
index.html

```
50 <li><a class="home-link" href="https://aws.amazon.com/">Home</a></li>
51 <li><a href="https://aws.amazon.com/what-is-cloud-computing/">About</a></li>
52 <li><a href="https://aws.amazon.com/solutions/">Services</a></li>
53 <li><a href="https://aws.amazon.com/contact-us/">Contact</a></li>
54 </ul>
55 </nav>
56 </header>
57
58 <div class="message">
59   <a class="twitter-link" href="http://twitter.com/home/?status=I%20created%20a%20project%20with%20AWS%20CodeStar!%20%23AWS%20%23AWSCodeStar%20https%3A%2F%2Faws.amazon.com%2Fcodestar%2Fprojects%2Fyour-project">Twitter</a>
60   <div class="text">
61     <h1>Congratulations!</h1>
62     <h2>You just created a Node.js web application</h2>
63   </div>
64 </div>
65 </div>
66
67 <footer>
68   <p class="footer-contents">Designed and developed with <a href="https://aws.amazon.com/careers/devtools-jobs/">love</a> in Seattle.</p>
69 </footer>
70
71 <script src="assets/js/set-background.js"></script>
72 </body>
73
74 </html>
```

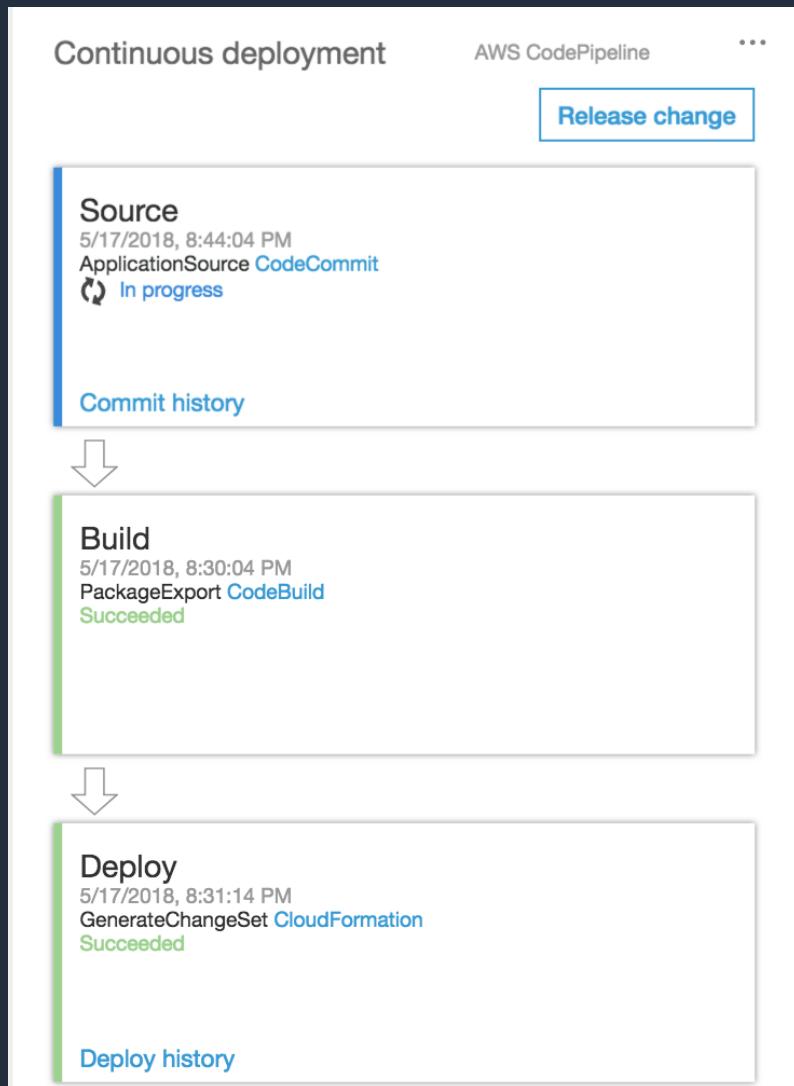
(5 Bytes) 62:57 HTML Spaces: 4

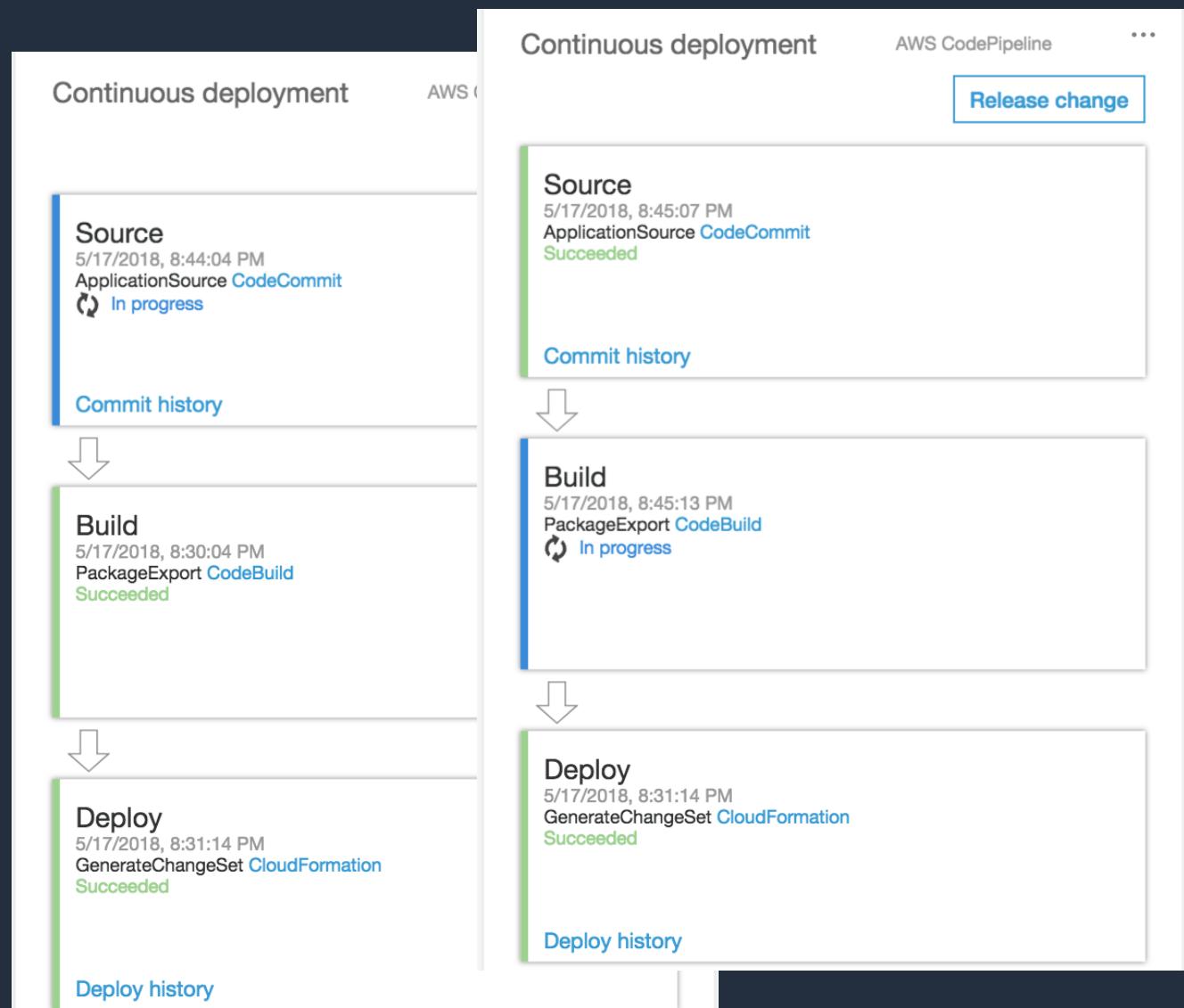
.*? aA " " Replace With Replace Replace All

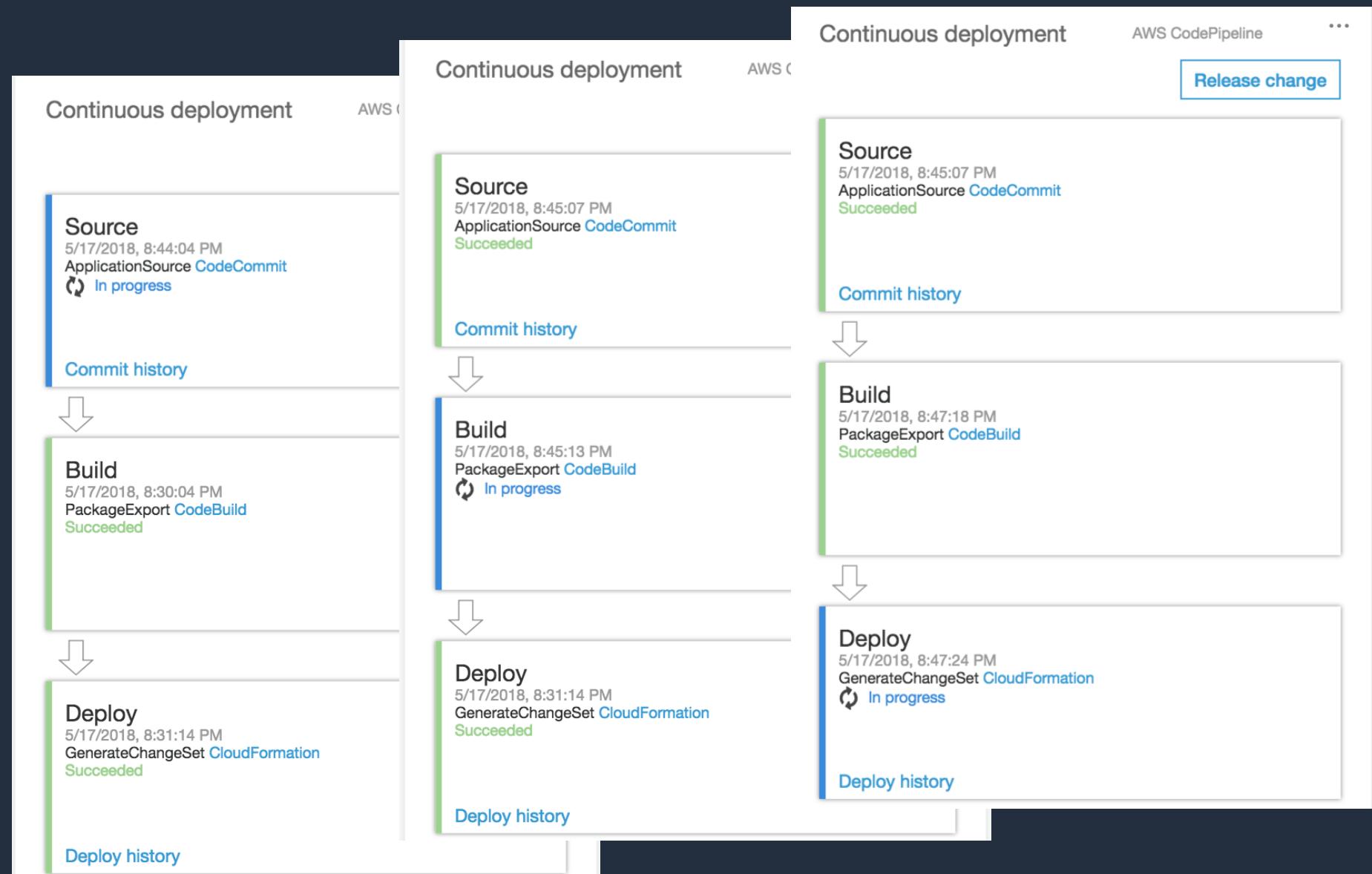
bash - "ip-172-31-1" Immediate (Java) bash - "ip-172-31-

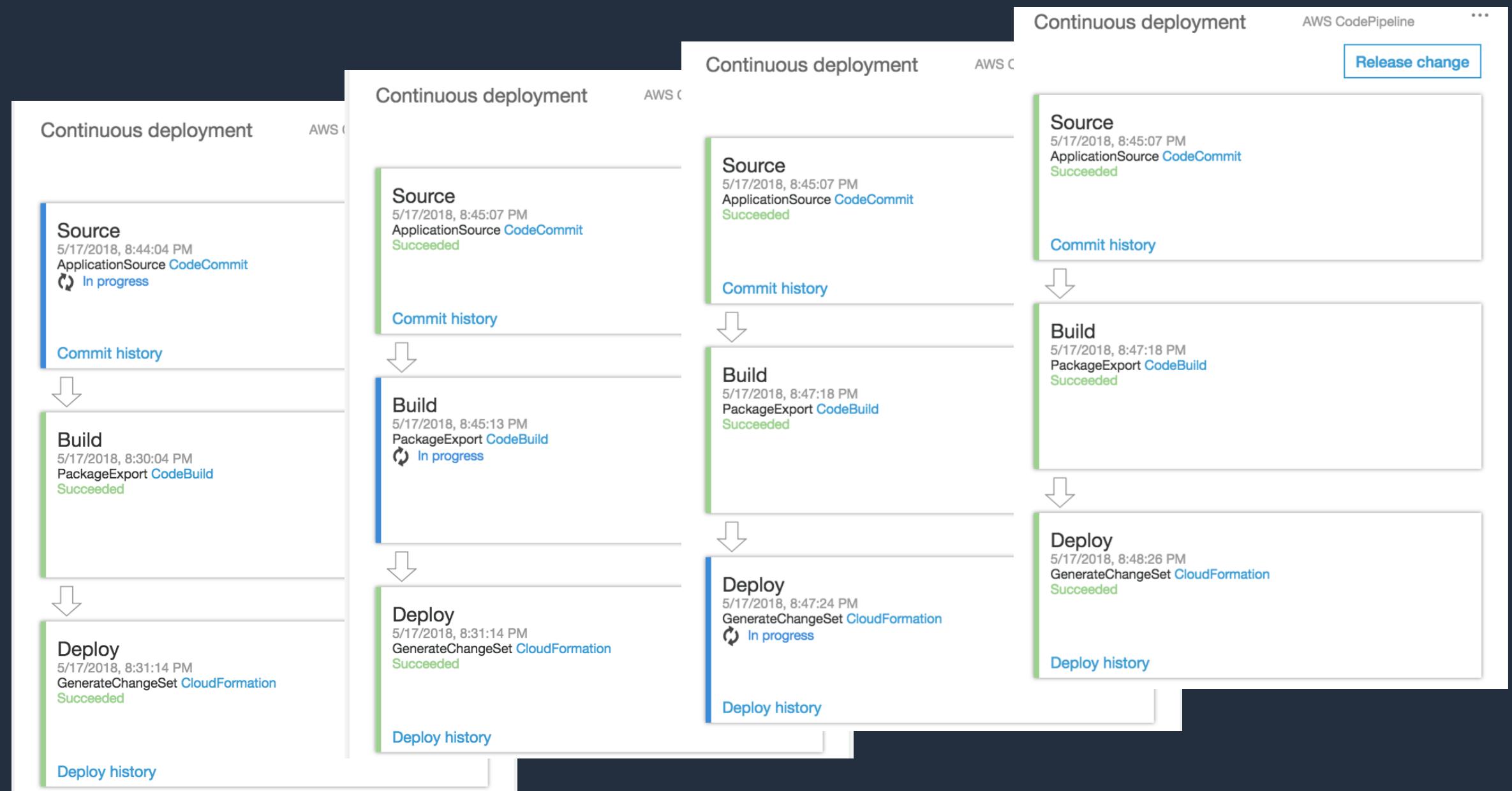


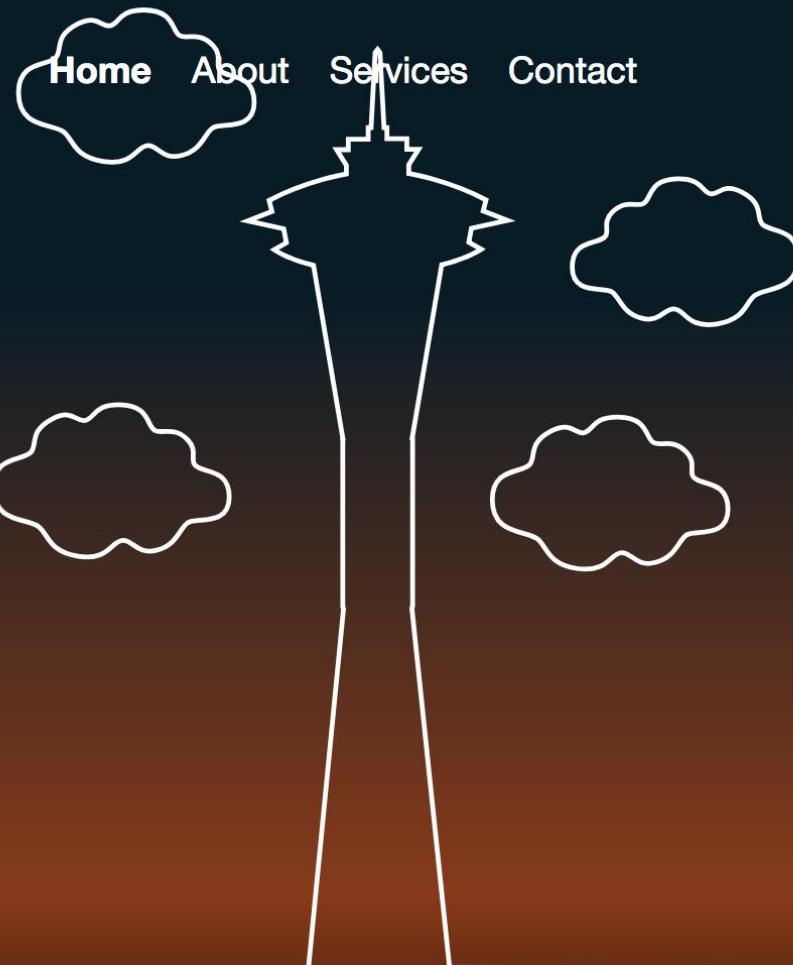
```
bash - "ip-172-31-1" Immediate (Java X) git - "ip-172-31-3" X +  
ec2-user:~/environment/nodejs-app (master) $ git status ← 1  
On branch master  
Your branch is up-to-date with 'origin/master'.  
Changes not staged for commit:  
  (use "git add <file>..." to update what will be committed)  
  (use "git checkout -- <file>..." to discard changes in working directory)  
  
        modified:   public/index.html  
  
no changes added to commit (use "git add" and/or "git commit -a")  
ec2-user:~/environment/nodejs-app (master) $ ← 2  
ec2-user:~/environment/nodejs-app (master) $ git add public/index.html ← 3  
ec2-user:~/environment/nodejs-app (master) $ git commit -m "aws innovate text" ← 4  
[master 0e38af0] aws innovate text  
 1 file changed, 1 insertion(+)  
ec2-user:~/environment/nodejs-app (master) $ git push origin master ← 4  
Counting objects: 4, done.  
Compressing objects: 100% (4/4), done.  
Writing objects: 100% (4/4), 417 bytes | 83.00 KiB/s, done.  
Total 4 (delta 2), reused 0 (delta 0)  
To https://git-codecommit.ap-southeast-1.amazonaws.com/v1/repos/nodejs-app  
 0880dcd..0e38af0  master -> master
```











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Congratulations!
Welcome to AWS Innovate !
You just created a Node.js web application

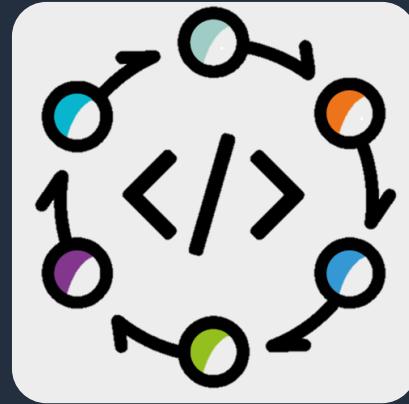


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