



Charlotte Node.js

CONTINUOUS CODE DEPLOYMENT





Agenda

Introduction

Housekeeping

The Topic



Hello

Technology Enthusiast
Standup Philosopher
Relentless Startupper

@BmanClt

bsoylu@xcoobee.com

~bilalsoylu



Bilal Soylu

Chief Worker Bee @ XcooBee





Housekeeping Questions

Facilities

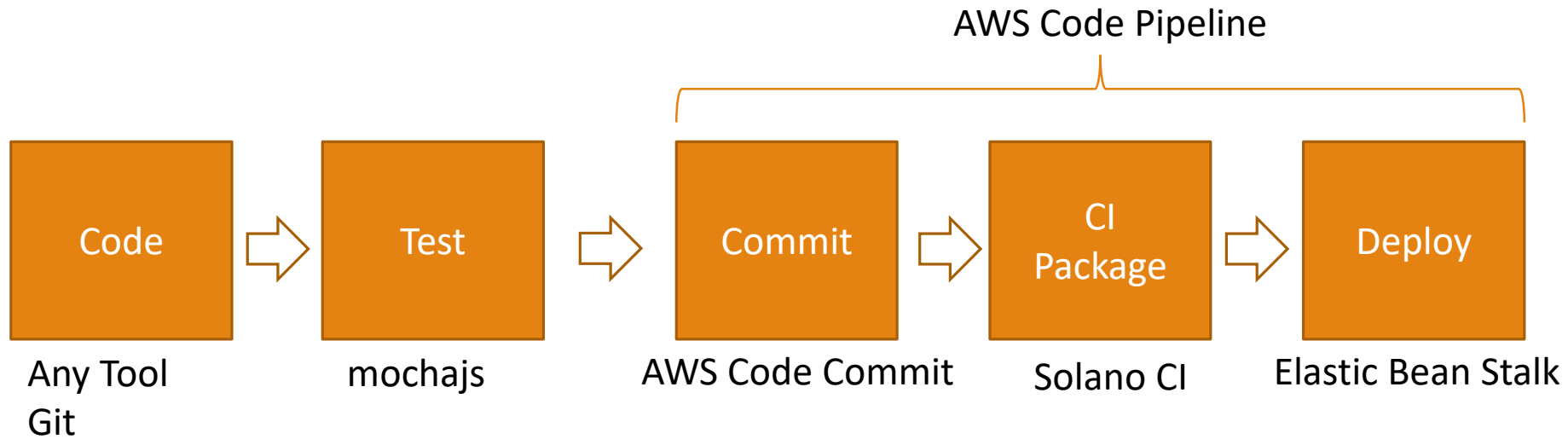
Next Meeting

Who wants to help?

- Co-organizer
- Know someone?



The Flow





Setup





Local Setup

AWS CLI Tools

Git

Development Stack

- Node
- Libs: Express, Mocha, etc.
- IDE (Visual Studio Code)



AWS Setup

Code Commit

Elastic Bean Stalk

CodePipeline



Third Party

Solano CI

<https://www.solanolabs.com/>

paid service: alternative

- Jenkins instance on EC2



Suggested Order of items

Create Repo – AWS CodeCommit

Install AWS CLI

Install GIT

Install dev tools and start coding

Create EBS project

Create Solano CI account

Create Code Pipeline

Code Away... And watch the magic



Walk Through and Demo





The Repo

Initial Config

- Create Repo (us-east-1 only)
- Create IAM User
 - Attach Policy: AWSCodeCommitFullAccess.



AWS Command Line Interface

- Install AWS CLI (1.7.38 or later): `aws --version`
- Commands to run:
 - `aws codecommit help`
 - `aws configure`
 - You can configure profiles (`--profile`)
- You need this to configure Git



GIT

Install GIT

- Do not install windows credential manager (uninstall needed)

Configure AWS Credential helper

- `git config --global credential.helper "!aws codecommit credential-helper $@"`
- `git config --global credential.UseHttpPath true`
- (you can do this per repo as well)
- If you use profile:
 - `git config --global credential.helper "!aws codecommit credential-helper --profile CodeCommitProfile $@"`



Connect to Repo

Get setting from repo page

If you do not have git with global config for use with aws cli of you will not be able to do `git clone` command. Use these steps:

- `git init`
- Run git config for local repo only (remove `--global` flag)
- `git remote add origin [your repo url]`
- `git fetch -prune` [or run sync in your IDE]



Solano CI

Setup

- 14 days free trial
- Auto connect from Code Pipeline
- You will also need a GitHub account since AWS uses oauth and Solano uses GitHub as OAuth authenticator

Ensure that you have the `solano.yml` file in your project root

- This governs how the project will be build and tested

Testing

- If webapp make sure your port is higher than 1024 otherwise your tests will fail (missing root privs)



EBS Cautions

Default Node Versions

Ensure you are going to port 8081 as default, since this is the default nginx proxy port

- Via Env variables
- Change default port in code or as Env variable. Also disable proxy server if you do not use it.

Configuration of your project matters

- Use “npm start”
- Add index.html
- Add logging.config inside .ebextensions directory



Create a CodePipeline

Walk through wizard for the initial pipeline.

- Connect items
 - CodeCommit
 - Solano CI
 - EBS



Conferences



Conferences - Europe

The screenshot shows a web browser window displaying the Node.js Interactive Europe event page. The browser's address bar shows the URL `events.linuxfoundation.org/events/node-interactive-europe`. The page features the Linux Foundation logo at the top left and a navigation menu with links for PROJECTS, EVENTS, TRAINING, MEMBERS, and ABOUT US. Below the navigation menu, there are sub-links for Home, Program, Attend, Sponsors, and Features and Add-Ons, along with a CFP Dashboard link. The main content area has a large banner image of a canal in Amsterdam with the Node.js Interactive Europe logo overlaid. Below the banner, the event dates (September 15 - 18, 2016) and location (Beurs van Berlage, Amsterdam, Netherlands) are displayed, along with the hashtag #nodeinteractive and social media icons. A paragraph of text describes the event as a marquee event for JavaScript developers. To the right of this text are three buttons: Register, Sponsor Event, and Schedule. The page is styled with a dark blue header and a green banner for the event details.

Node.js Interactive Europe, the marquee event for JavaScript developers, companies that rely on Node.js and the vendors that support both of these constituents with tools, training and other services.

We are proud to offer onsite childcare, more information available under Features and Add-Ons.

Register
Sponsor Event
Schedule

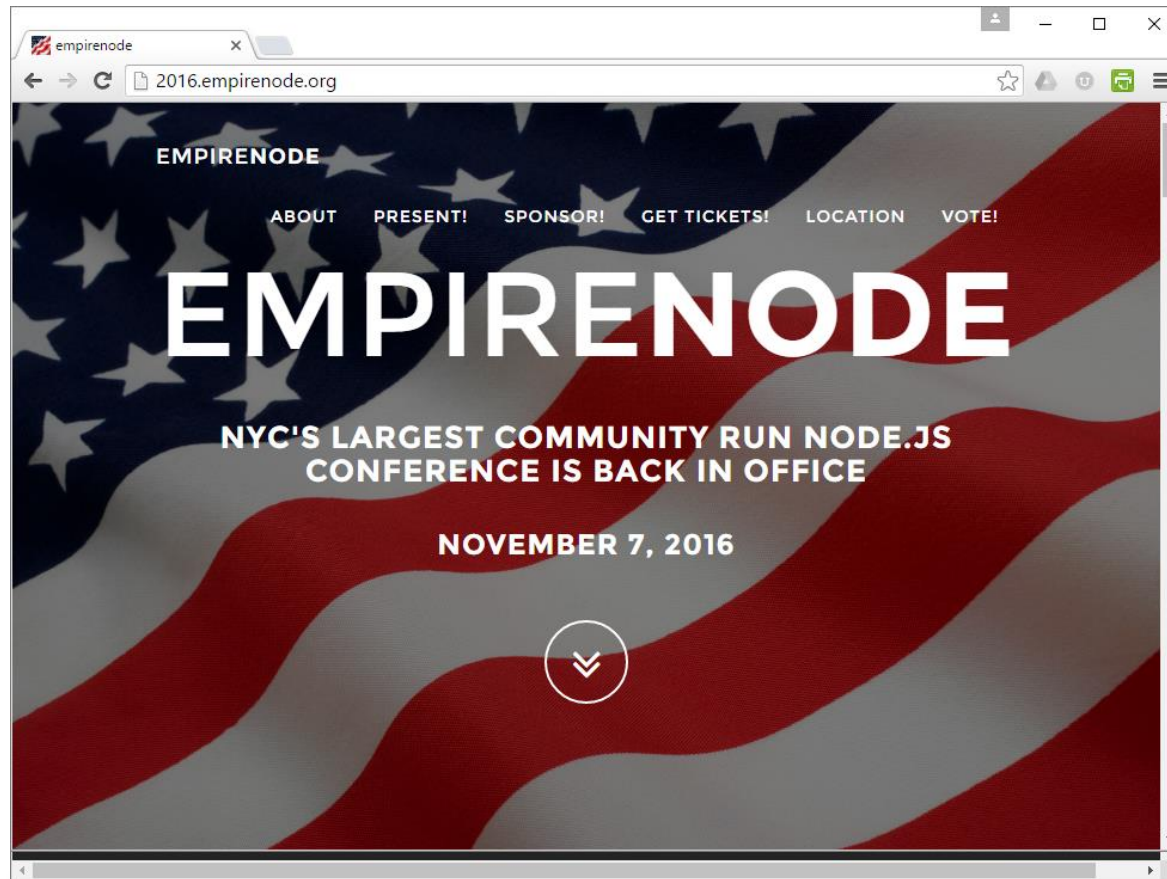


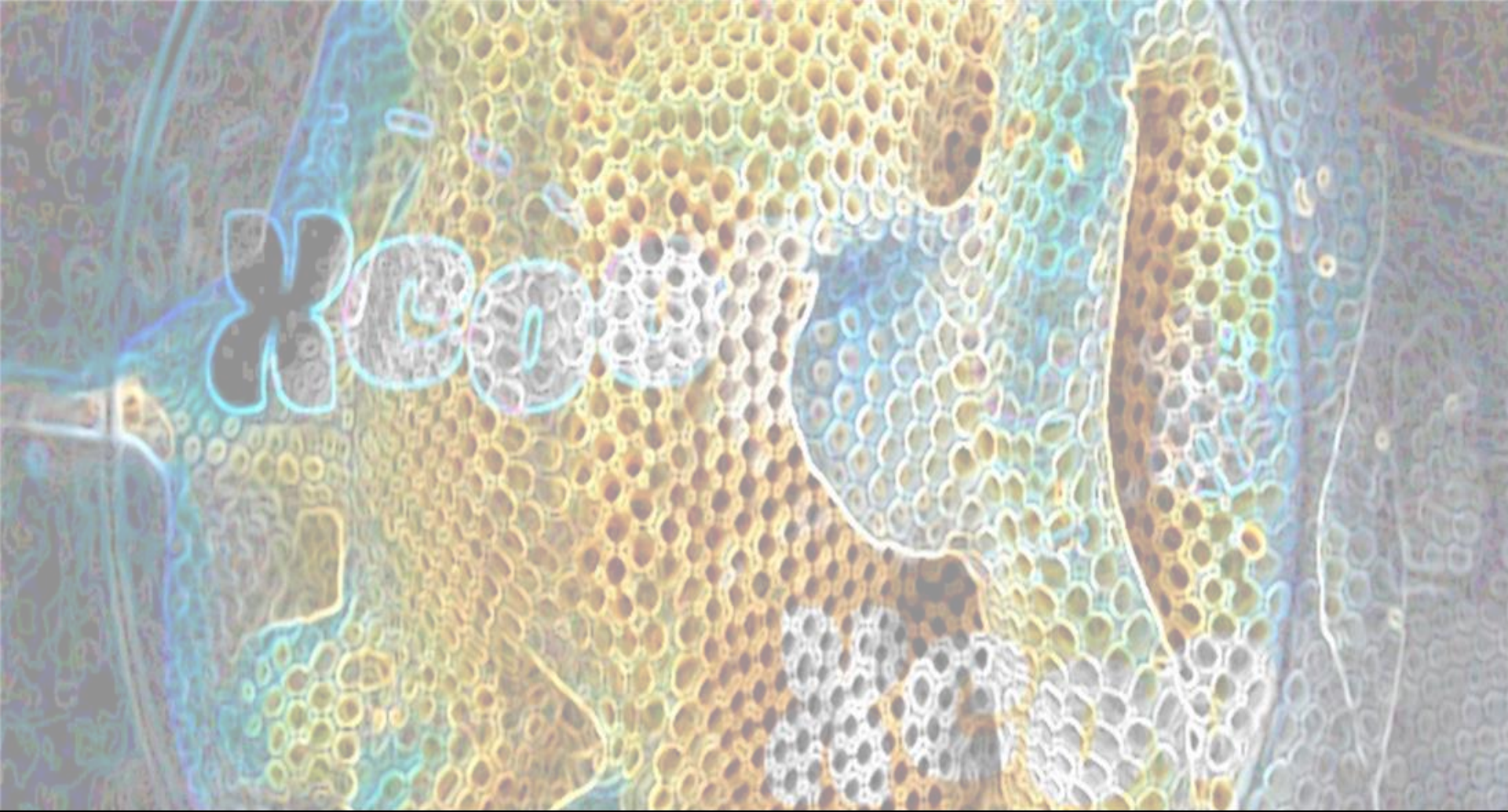
Conferences - NA

The screenshot shows a web browser window with the URL `events.linuxfoundation.org/events/node-interactive`. The page features the Linux Foundation logo at the top left. A navigation bar includes links for PROJECTS, EVENTS (which is highlighted), TRAINING, MEMBERS, and ABOUT US. Below this, a secondary navigation bar lists Home, Program, Attend, Sponsors, Features and Add-Ons, and Archive. A CFP Dashboard link is also present. The main content area has a large background image of a city skyline with the Node.js logo and the text 'Interactive NORTH AMERICA'. Below the image, a green banner displays the event dates 'November 29 - December 2, 2016', the location 'JW Marriott Austin, Austin, Texas, US', and the hashtag '#nodeinteractive' with social media icons. A paragraph of text describes the event as 'Node.js Interactive US, the marquee event for JavaScript developers, companies that rely on Node.js and the vendors that support both of these constituents with tools, training and other services.' To the right of this text are two green buttons: 'Register' and 'Sponsor the Event'. At the bottom, another line of text states 'We are proud to offer onsite childcare, more information available under Features and Add-Ons.'



Conferences - NA





Q&A

Now is the time to ask questions.