
AWS
re:Invent
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DOP317

Amazon CodeCatalyst Dev Environments in action

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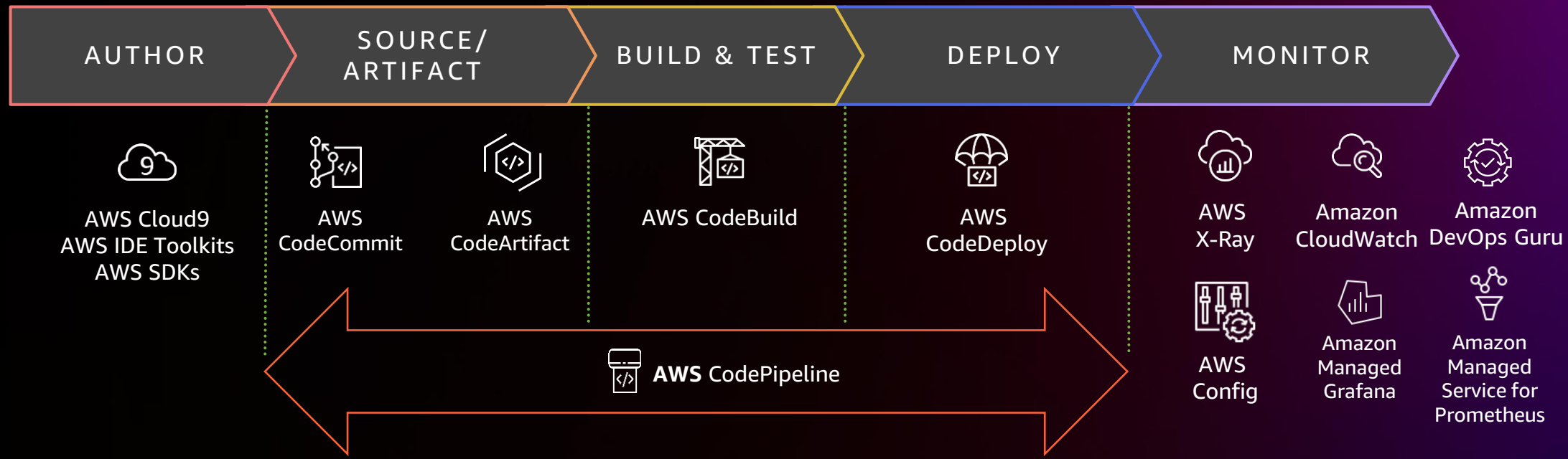
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Agenda

- A brief tour of Amazon CodeCatalyst
- Challenges building cloud applications
- Why Dev Environments?
- What’s a Dev Environment?
- Dev Environment options
- Getting started with Dev Environments

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AWS dev tools – A full set of tools



MODEL

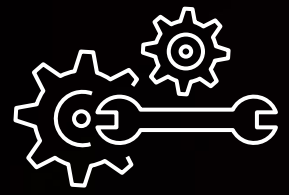
AWS CloudFormation

Cloud Development Kit
(AWS CDK, CDK8s, CDK-terraform)

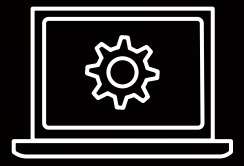
AWS Serverless
Application Model (SAM)

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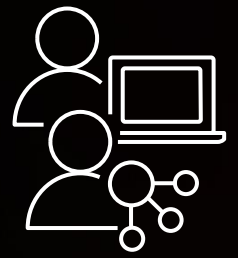
Challenges in building cloud applications



Setting up projects and integrating tools



Automating CI/CD and environments

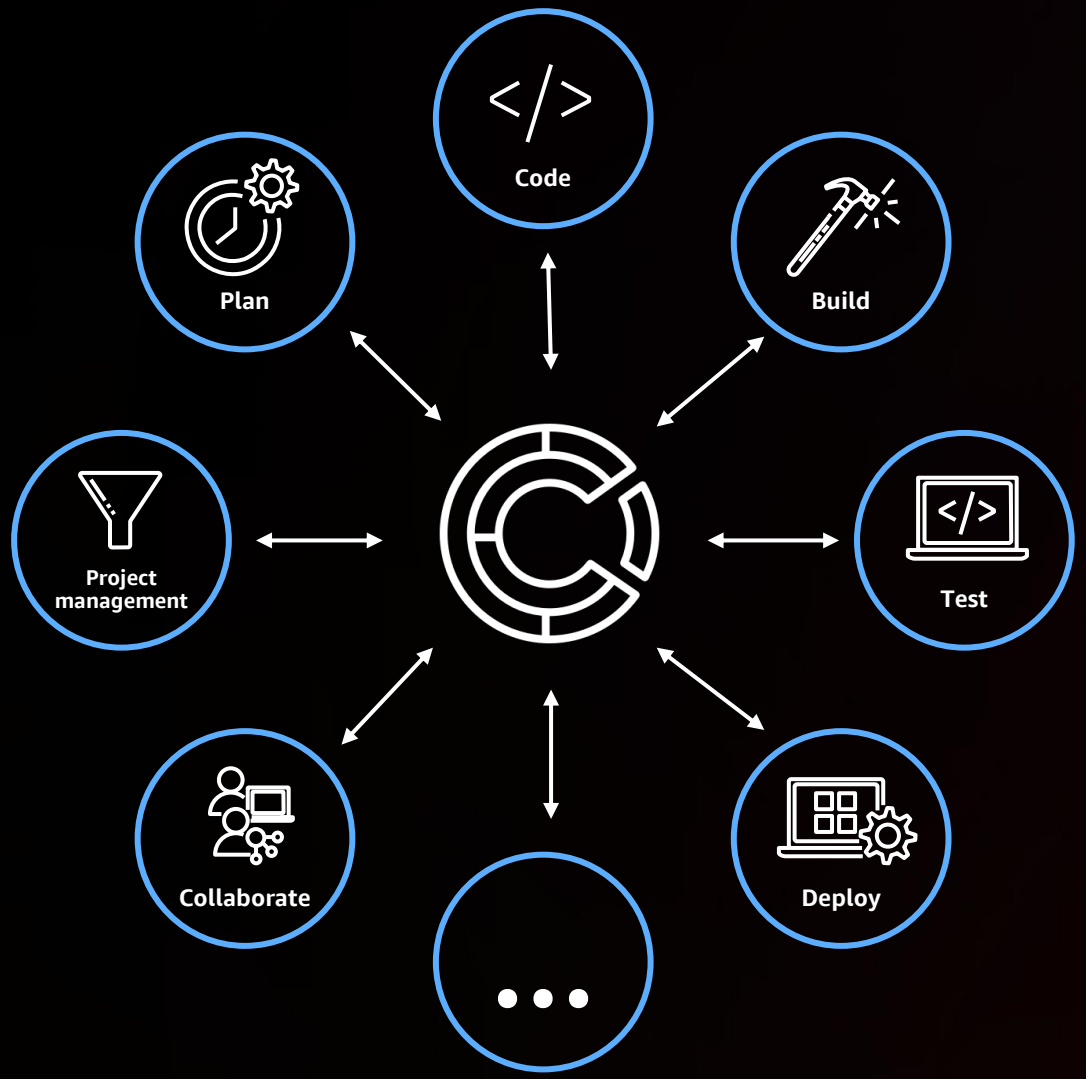


Complexity of modern applications

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Amazon CodeCatalyst



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Amazon CodeCatalyst

Spark a faster planning, development, and delivery lifecycle on AWS

Sign up for free

CREATE AN AMAZON CODECATALYST SPACE FOR FREE AND GET:

- 2000 build minutes
- 60 Dev Environment hours
- 10 GB source storage
- 64 GB Dev Environment storage

Learn more →

Create projects with everything you need in minutes

CodeCatalyst's project blueprints automatically setup everything you need to start a new project including CI/CD, AWS services, issue tracking, and deployable code with AWS best-practices by default. Swap in GitHub and Jira to continue using your existing tools.

Blueprints

Repository name: aws

Web Application Framework: Angular, React, Vue

Hosting: Amplify Hosting, CloudFront + S3

CDK Programming Language: Python, Typescript

Environment AWS Region: us-west-2

Stack name: DevelopmentFrontend

Create project

Your Dev Environments — Create Dev Environment

Resources	IDE	Status	Last modified
cdux-repo main	Cloud9	Running	Just now

Spend more time coding and less time managing development environments

CodeCatalyst Dev Environments are available on-demand in the

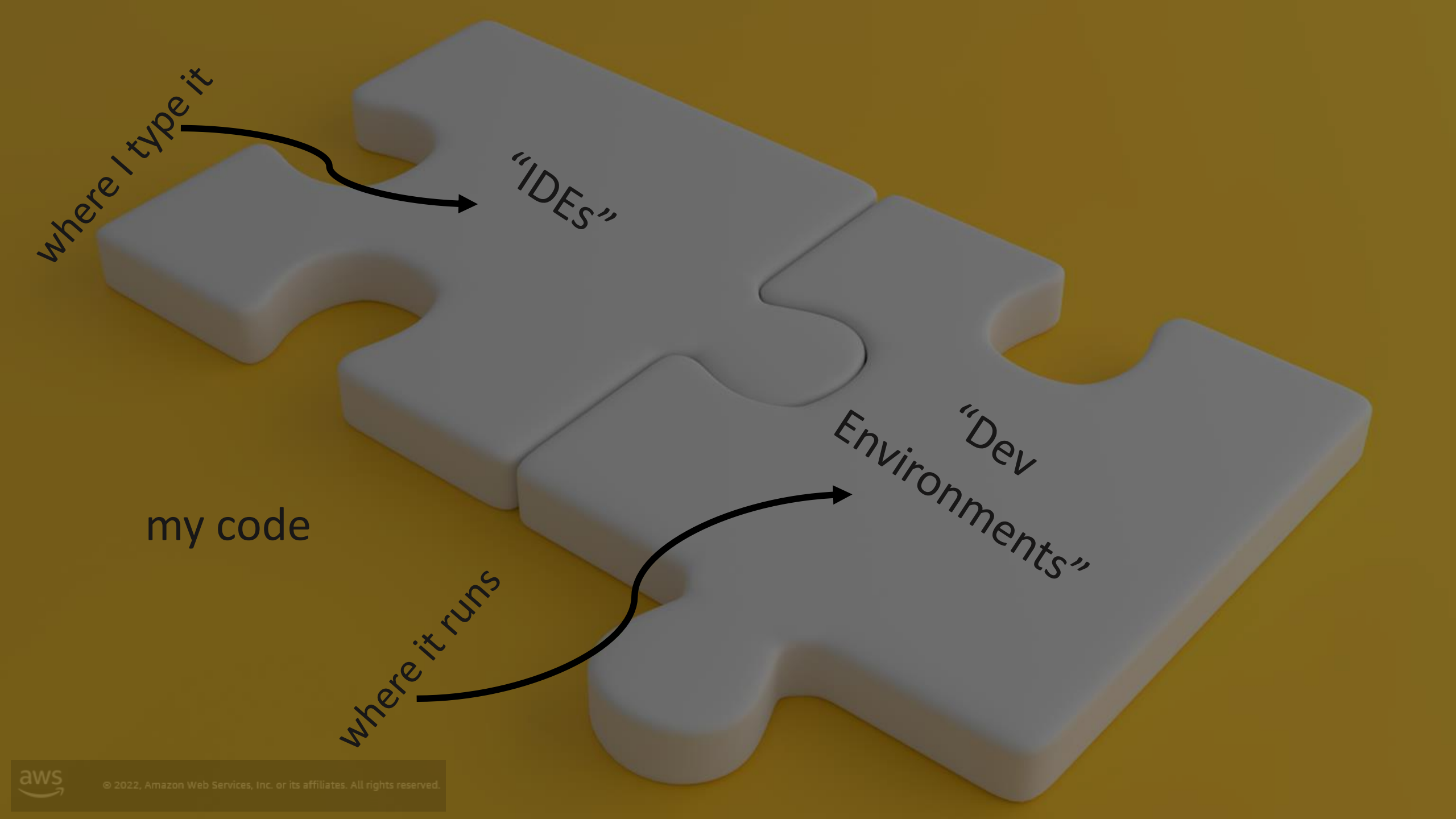
Reclaim your time



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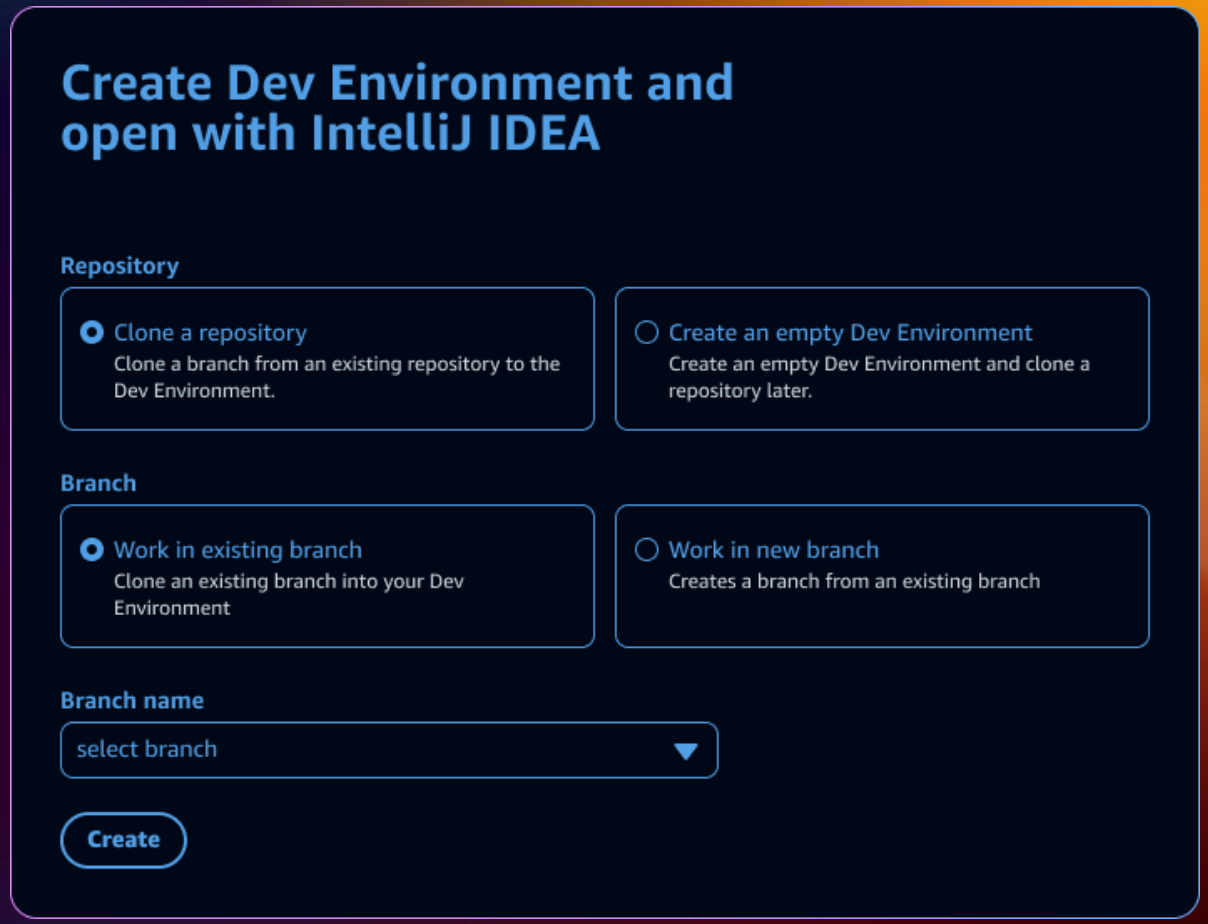
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Why Dev Environments?

- No more “it works on my machine”
- Avoid local reconfiguration
- No patching or updating required
- Resizable on demand
- Stay in the flow of your project



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What's a Dev Environment?

Dev Environments are:

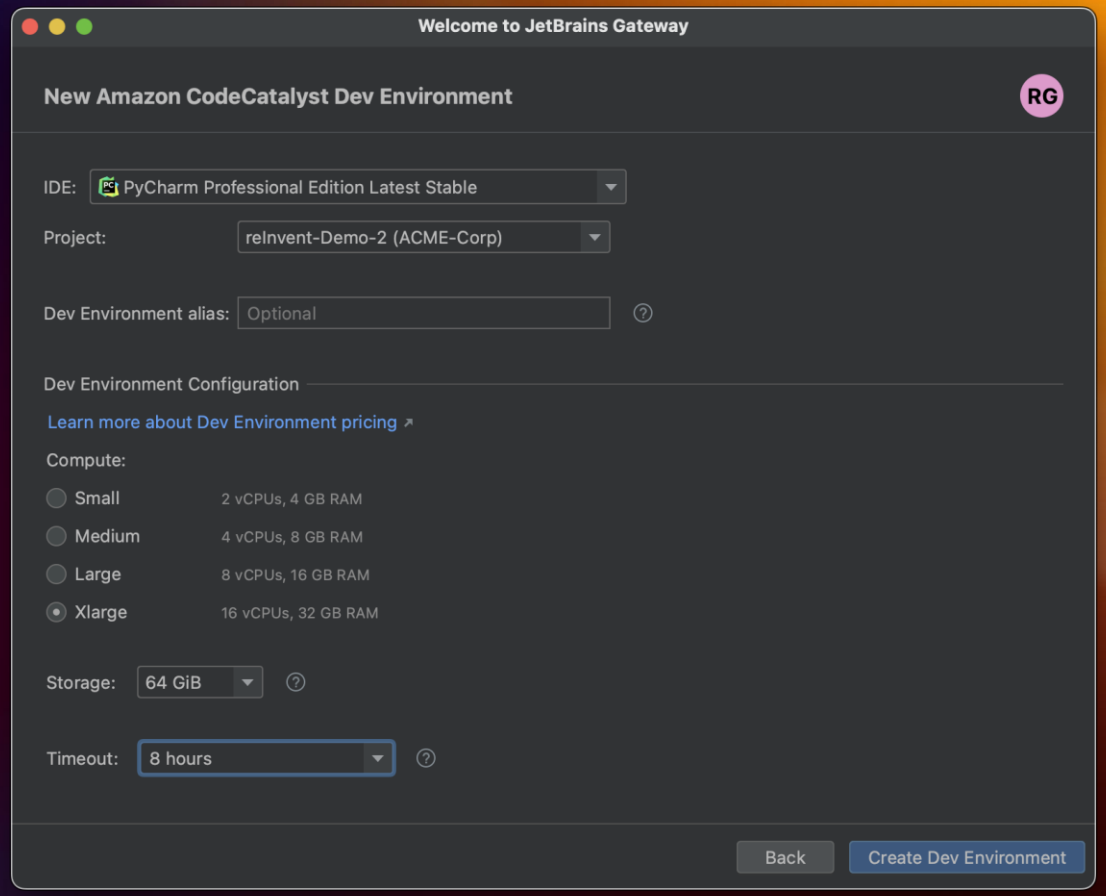
- Fully-managed cloud-based
- Supported with Devfile standard
- Scalable to meet the task at hand
- Available on CodeCatalyst website or your local IDE
- Initialized with a code repository (optional)



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Dev Environment options

- Start with an empty Dev Environment, a source repository, or a blueprint
- Choose from Small, Medium, Large, or Xlarge compute sizes
- Create or connect to using JetBrains Gateway or with the AWS IDE Toolkit
- Select persistent storage size
- Configure inactivity timeout to save cost



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devfile.yaml

```yaml
schemaVersion: 2.0.0
metadata:
  name: aws-universal
  version: 1.0.1
  displayName: Ocaml
  description: Stack with Ocaml Tooling
  projectType: aws
components:
  - name: ocaml-runtime
    container:
      image: public.ecr.aws/w9u4a6r8/ocaml:latest
      mountSources: true
      volumeMounts:
        - name: docker-store
          path: /var/lib/docker
  - name: docker-store
    volume:
      size: 16Gi
```

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Getting started with CodeCatalyst

- Sign up for an Amazon CodeCatalyst account
- Create an AWS Cloud9 Dev Environment from the CodeCatalyst website
- Download JetBrains Gateway
- Install the AWS IDE Toolkit for VS Code
- Start building!

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More about Amazon CodeCatalyst

- **DOP206**
  Continuous integration and delivery (CI/CD) on AWS

  Thursday 4:15PM – 5:15PM

- **DOP208**
  Delighting developers: Builder experience at AWS

  Thursday 2:00PM – 3:00PM

https://codecatalyst.aws

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Thank you!

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