
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

DOP323

Building quality into your CI/CD pipelines

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Agenda for the session

- Overview of Amazon CodeCatalyst
- Getting started
- What we'll build

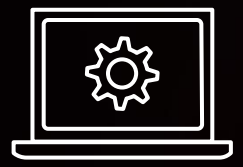
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Complexity and friction in cloud application development

TEAMS STRUGGLE TO BALANCE CRITICAL ACTIVITIES WITH CUSTOMER VALUE CREATION



Tool Integrations



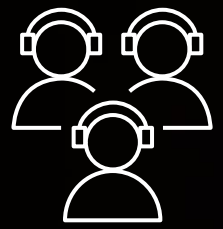
Technology Configurations



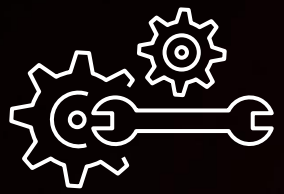
Environment Setup



Release Management



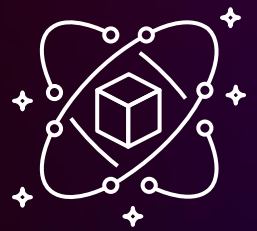
Collaboration



Tool Operations



Application Security

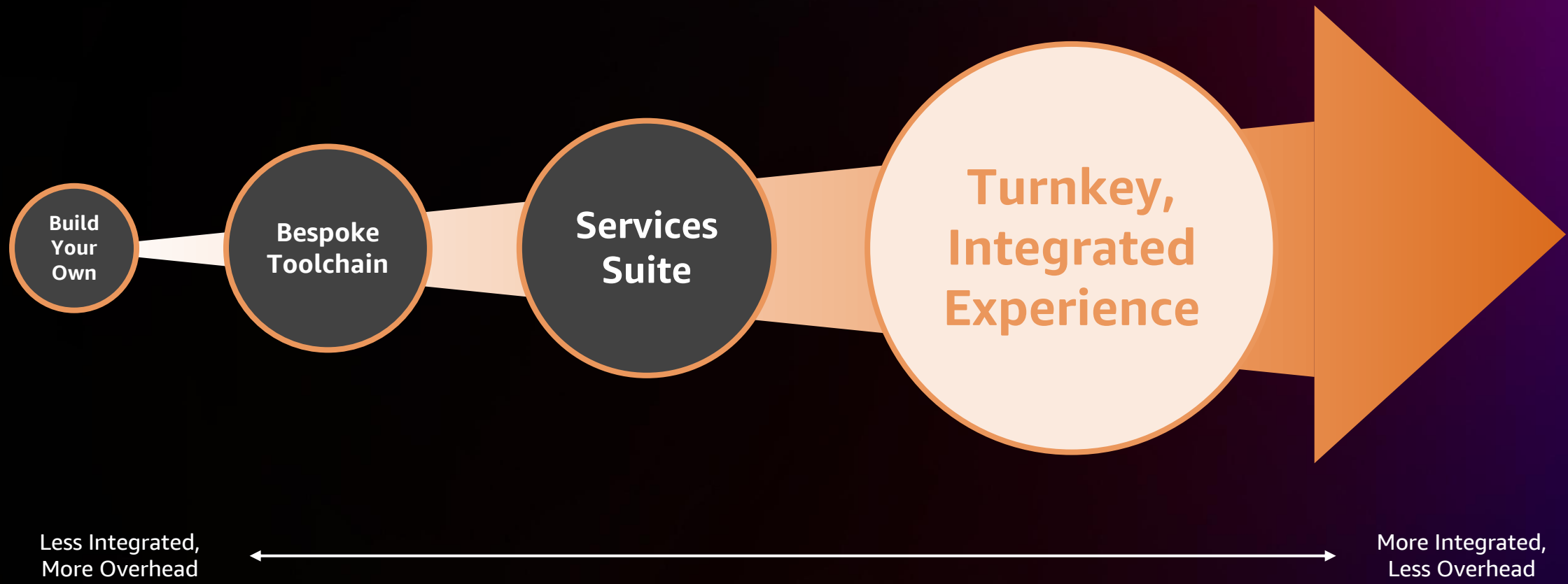


Organizational Consistency

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Organizations increasingly seek turnkey tool options so they can focus on their business



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Amazon CodeCatalyst: Integrated DevOps Service



- ✓ Managed
- ✓ All-in-one
- ✓ Integrated
- ✓ Secure
- ✓ Flexible

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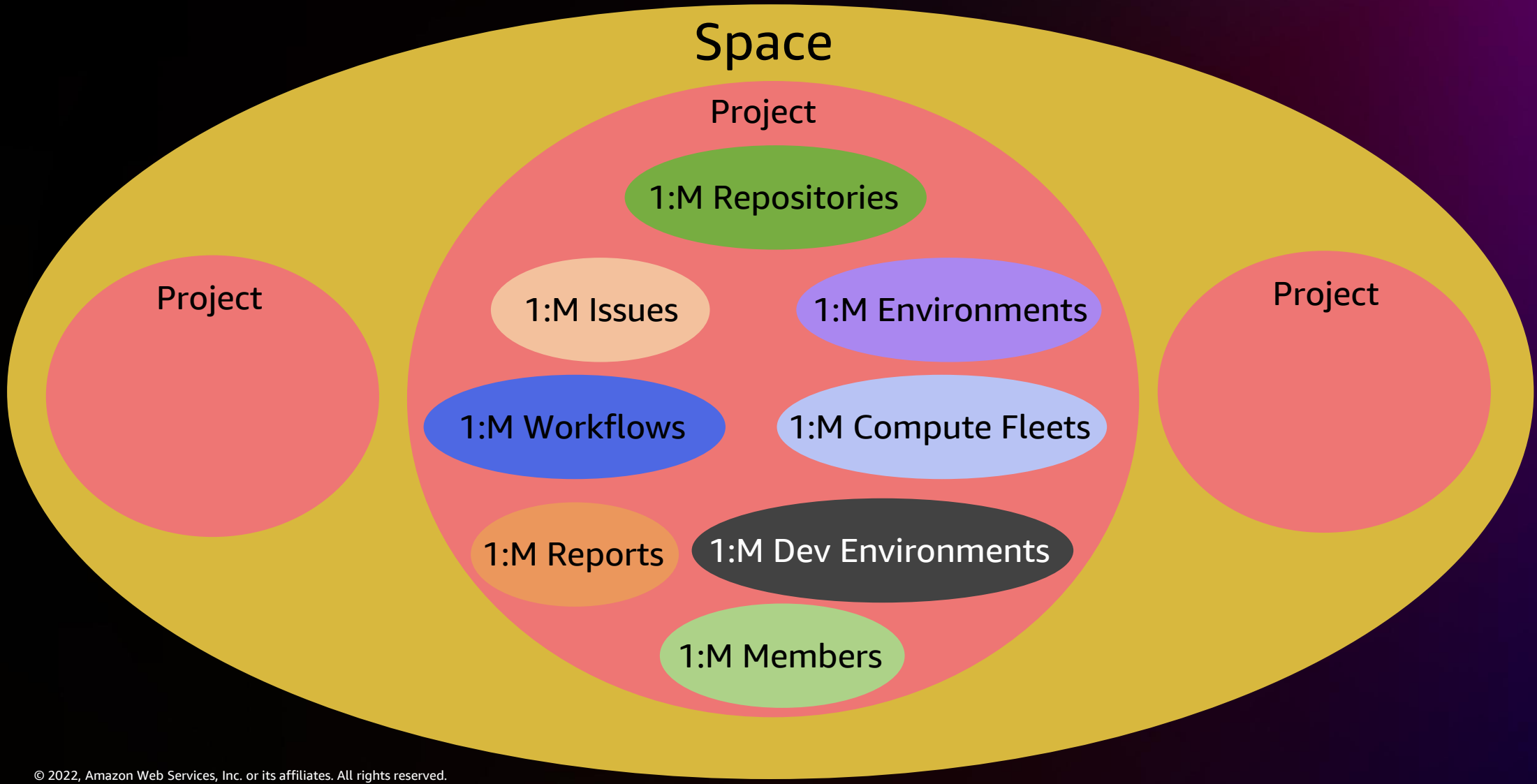
Registration

Sign up for your table



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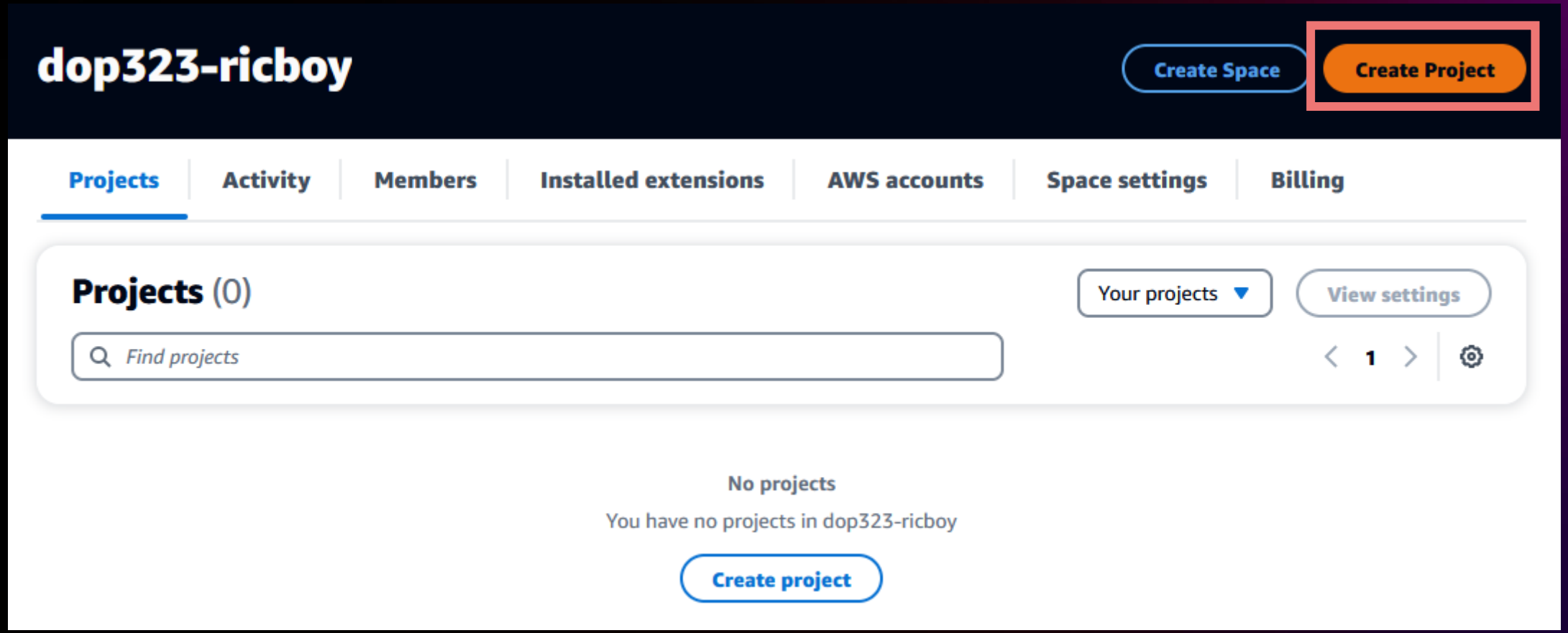
Amazon CodeCatalyst space layout



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Setting up your project

Click **Create Project** from the Spaces screen

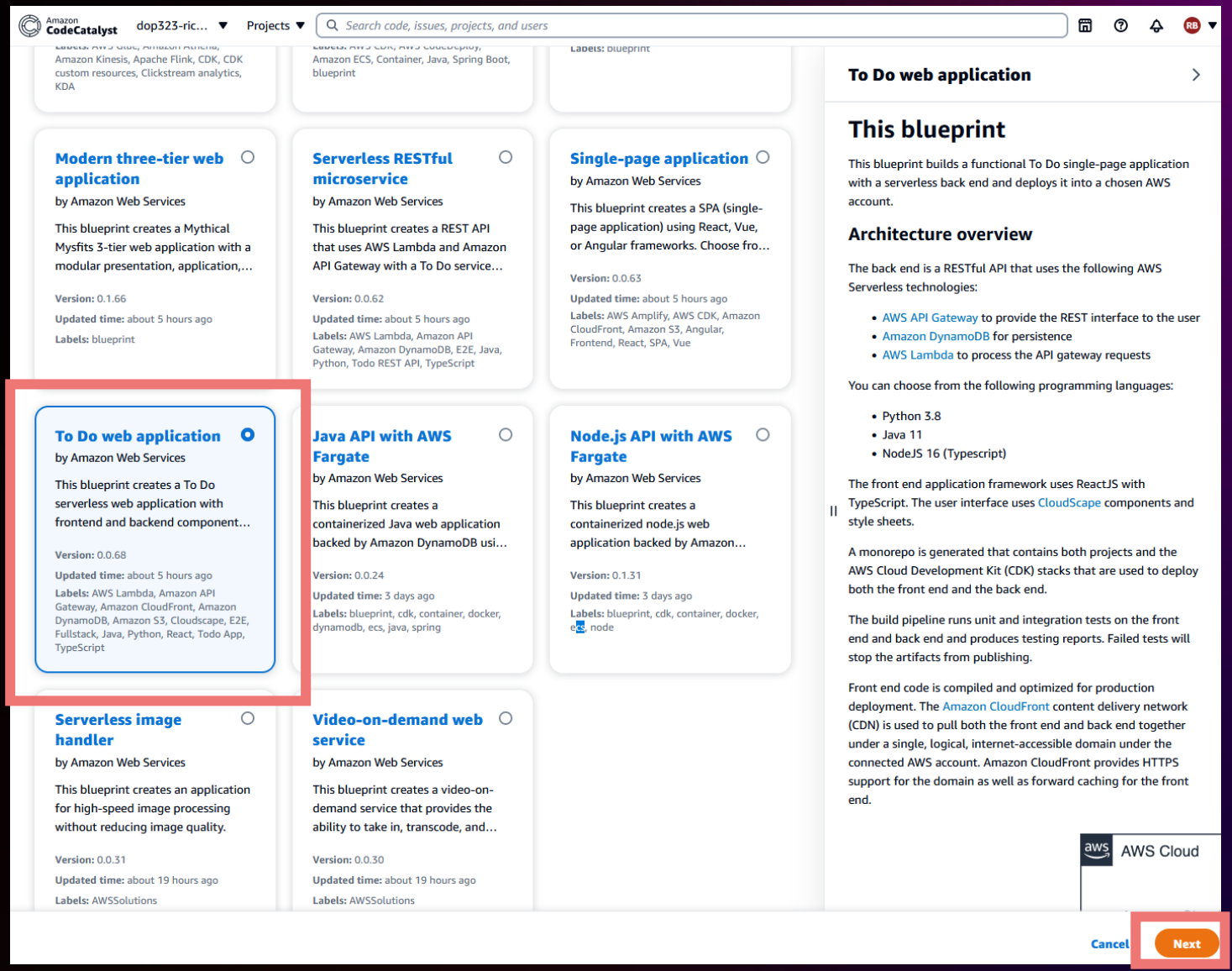


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Setting up your project

Select **Start with a blueprint** then scroll down to the **To Do web application**

Select it and click **Next**



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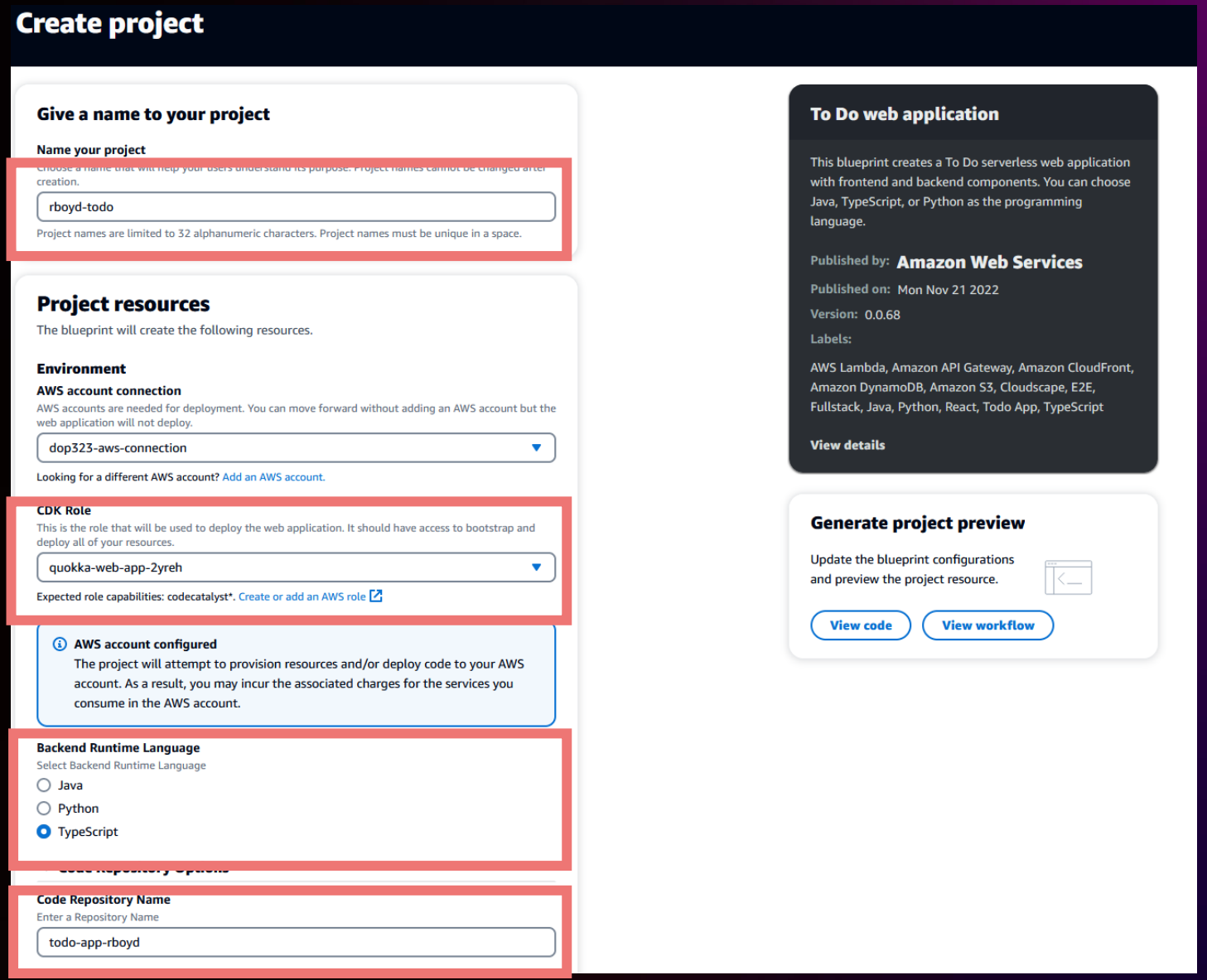
Setting up your project

For project name, use <first initial last name>-todo (e.g., rboyd-todo)

Select the CDK Role from the drop-down

Choose your backend language

For Repository Name, use <first initial last name>-todo-app



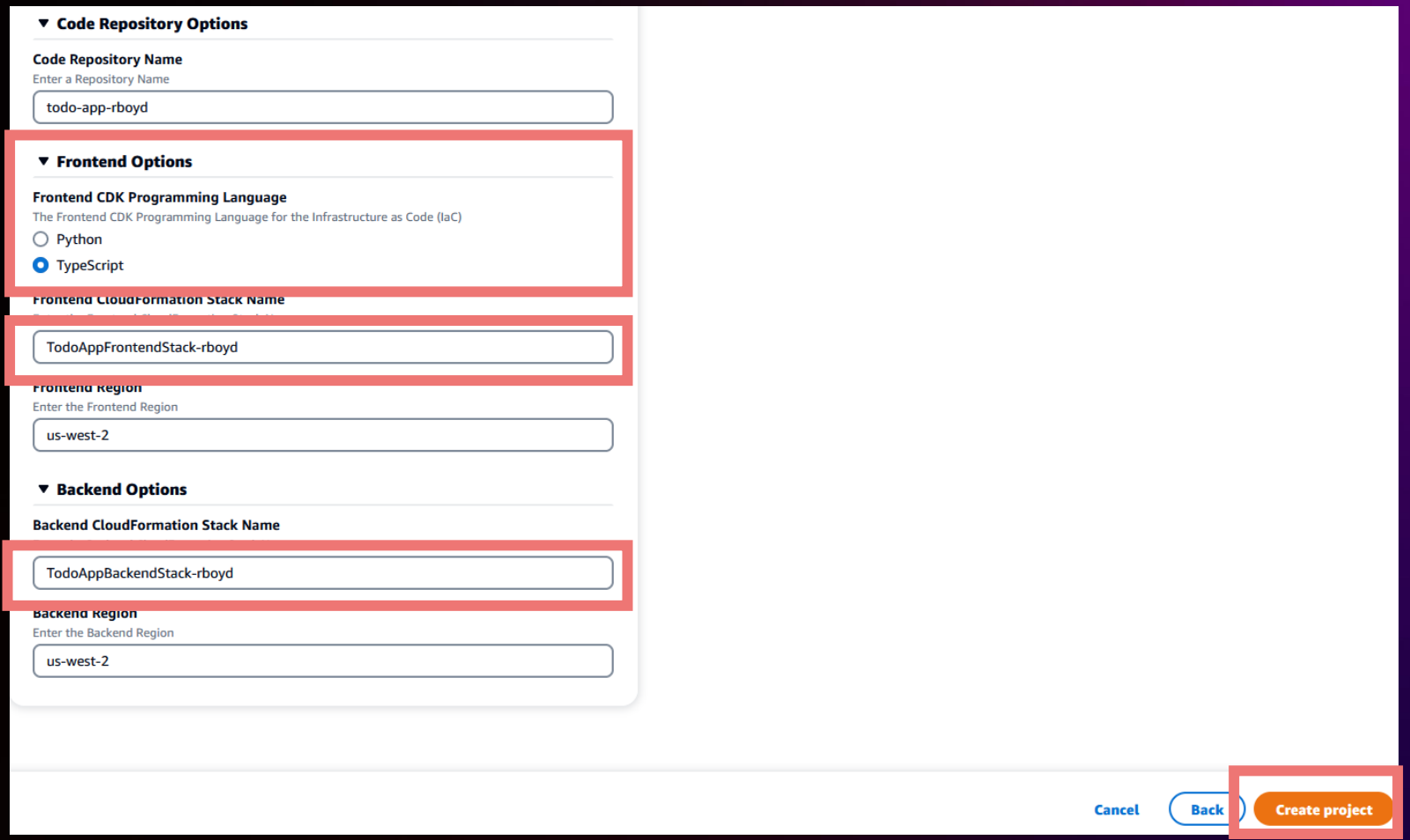
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Setting up your project

Choose your Frontend CDK Programming Language

For Frontend and Backend CloudFormation Stack Name, append it with <first initial last name>

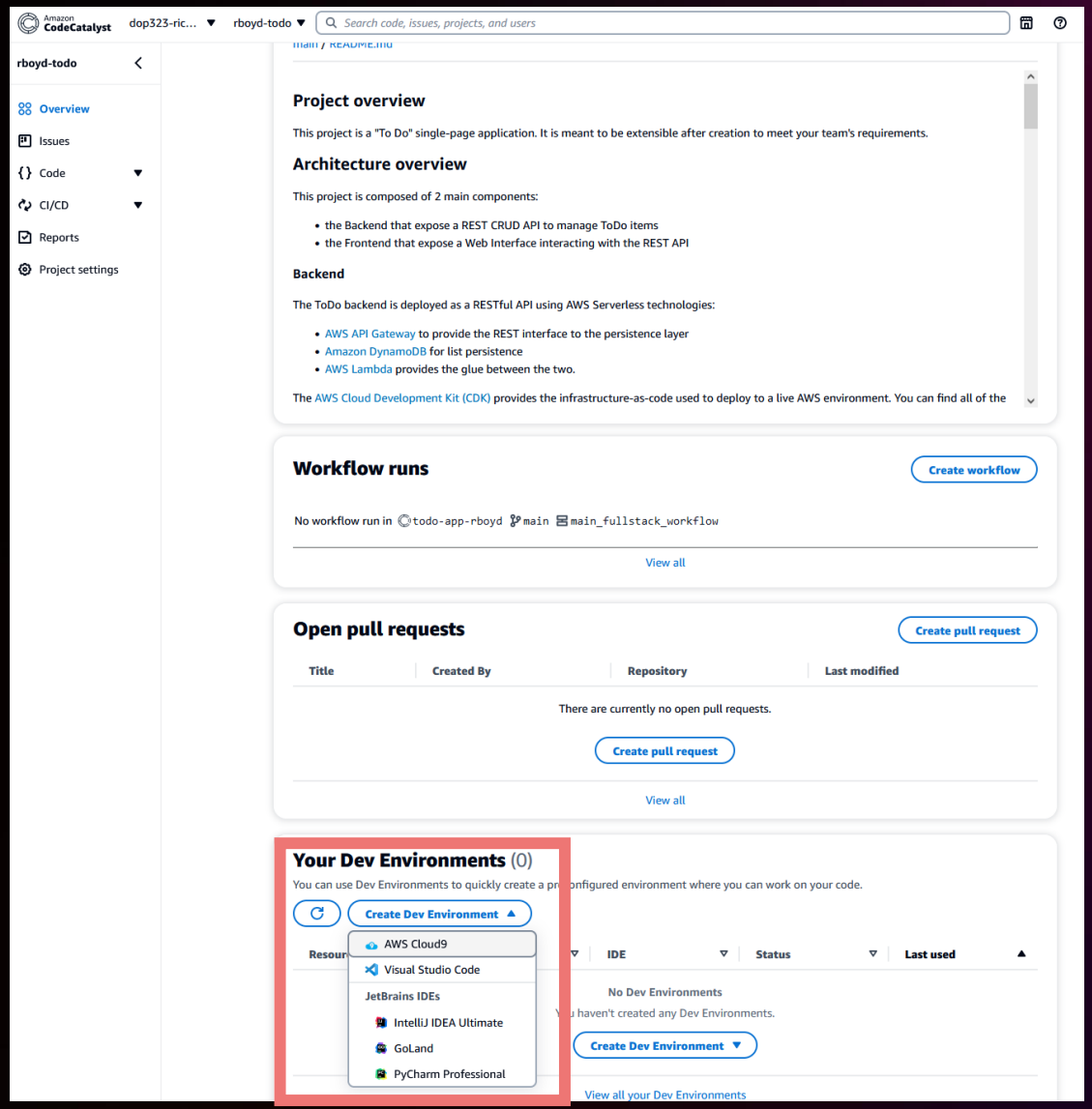
Click **Create project**



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Launch a Dev Environment

From the Project Overview page, scroll to the bottom



Click the drop-down by **Create Dev Environment**. Select **AWS Cloud9**

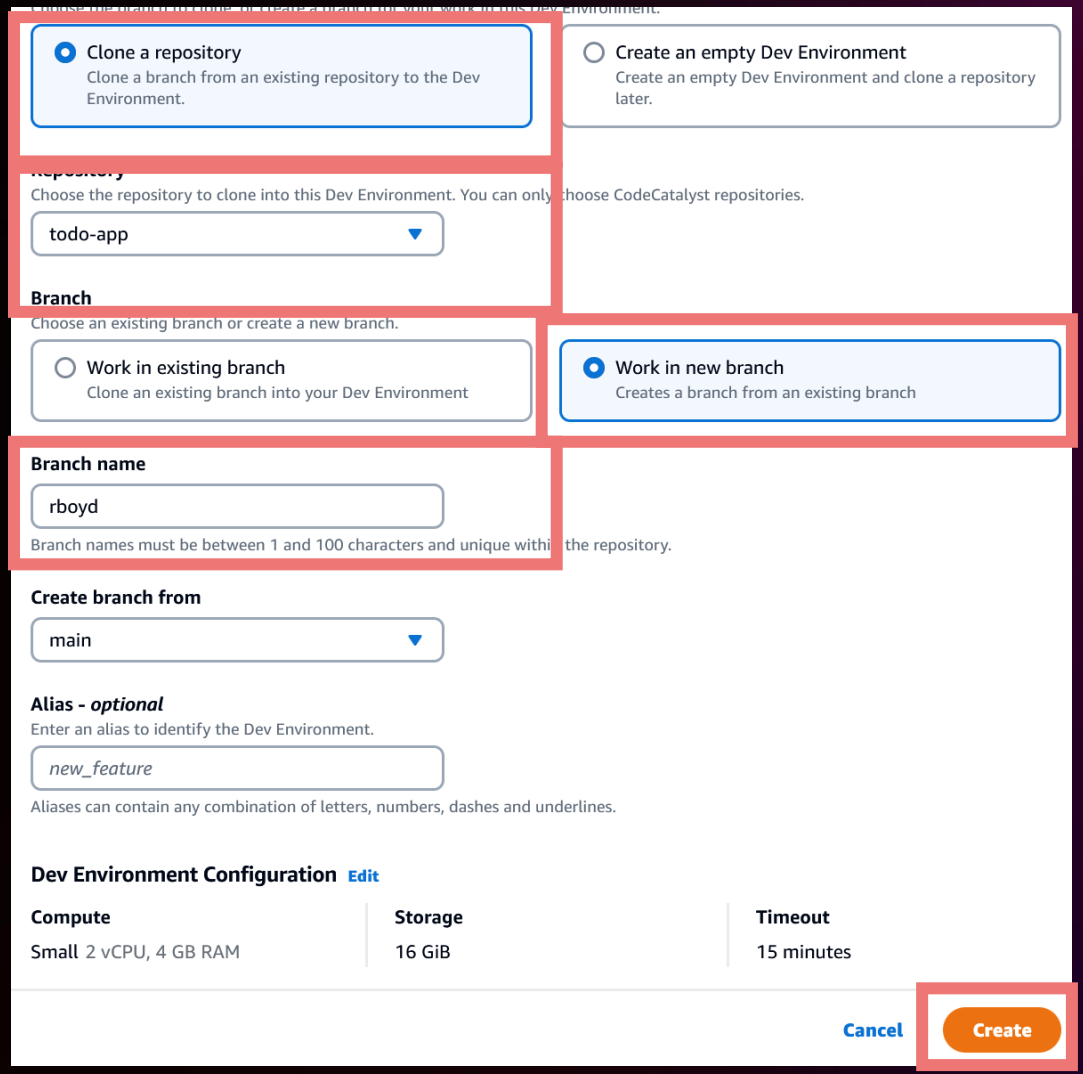
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Launch a Dev Environment

Select **Clone a repository**

For repository, select the repository we created earlier

Select **Work in new branch**. Use <first initial last name> for the branch name. Click Create.



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Things to build

Create an issue

Modify the frontend

Create a PR

Assign a reviewer

Add Trivy to your workflow

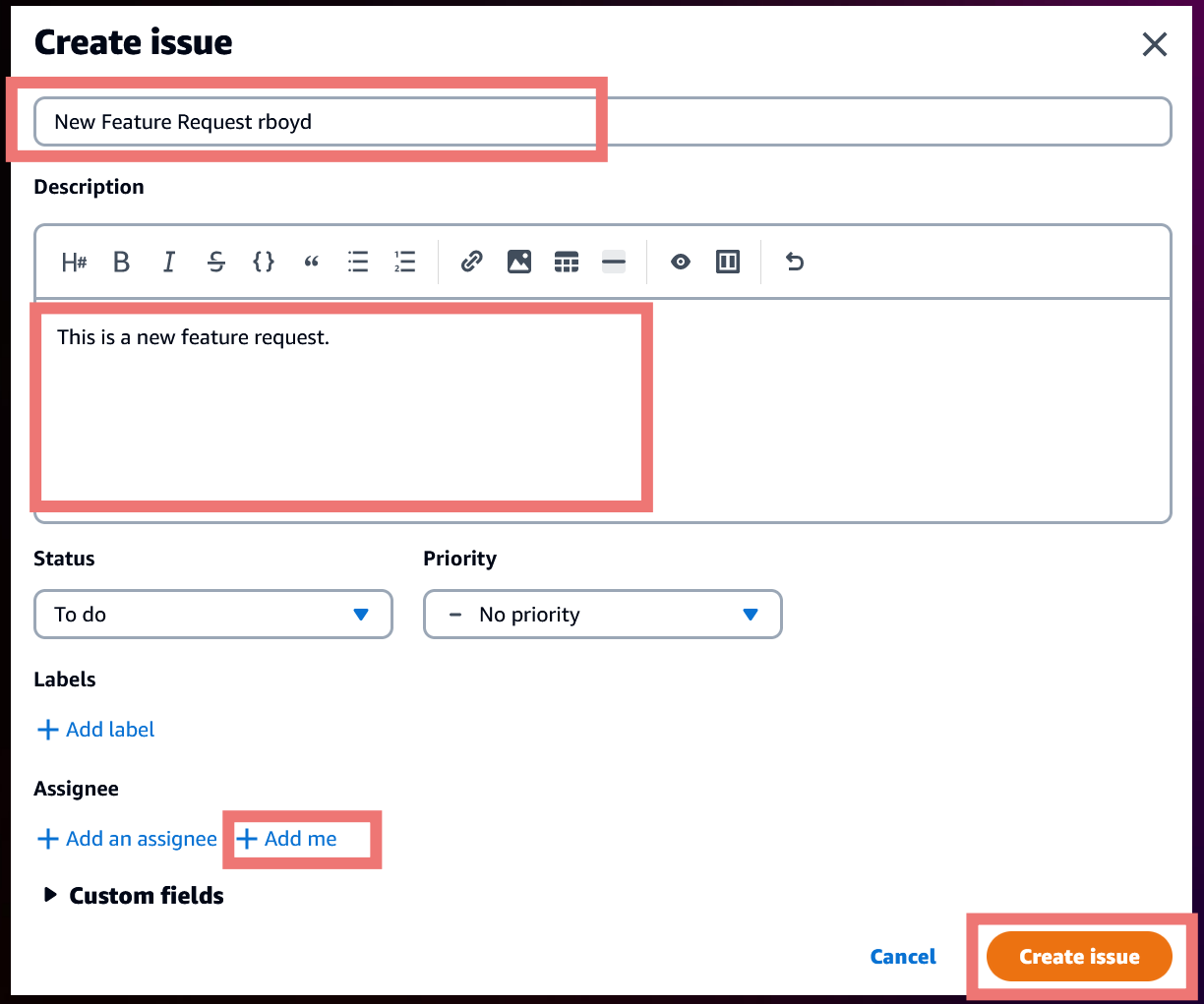
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Create an issue

Go to **Issues** on the left and click **Create issue**.
Give your issue a title and description.

Click **+Add me** to assign it to yourself.

Click **Create issue**.



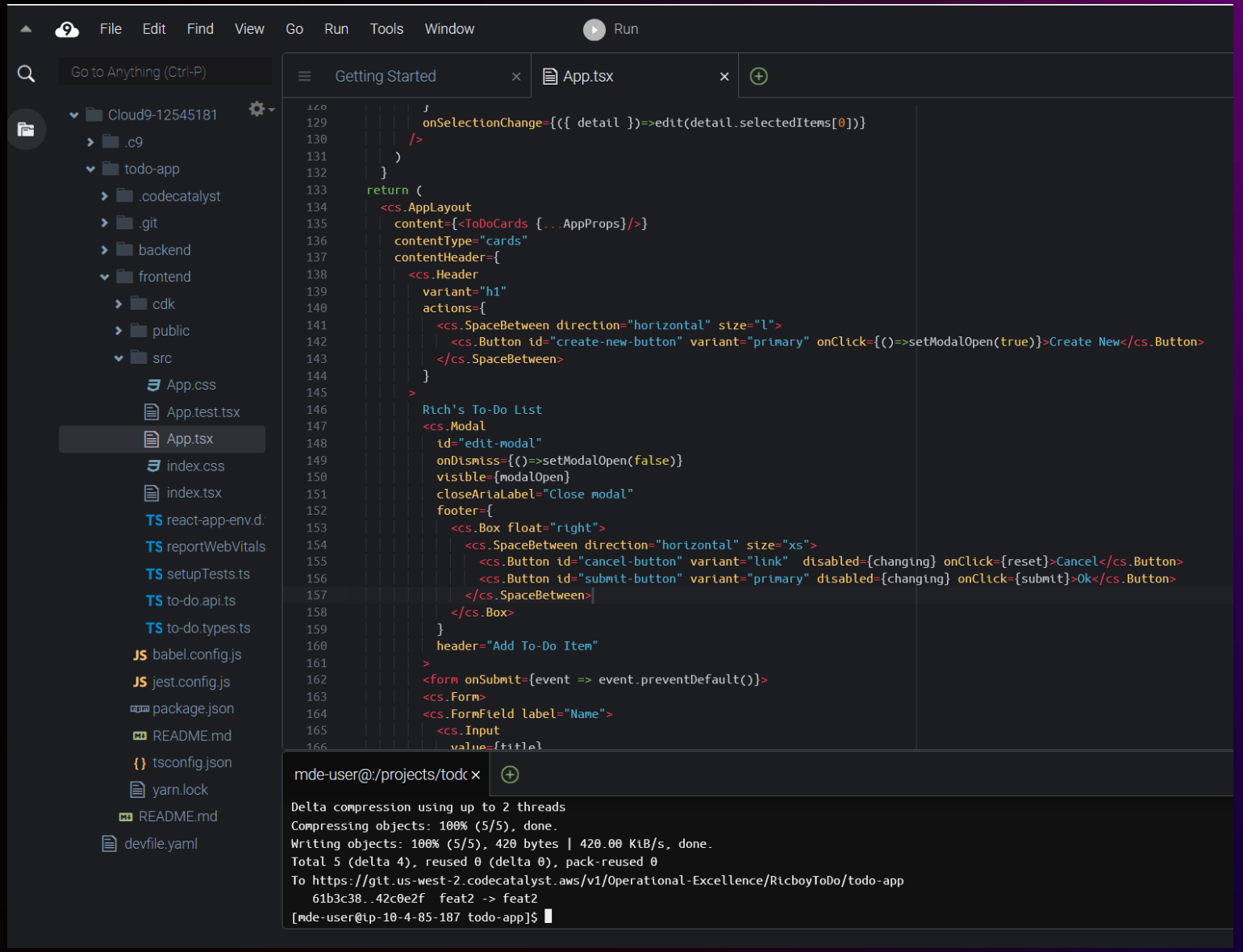
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Modify the frontend

From the Project Page select your Dev Environment. Click **Resume in AWS Cloud9**.

Go to to-do app > frontend > src and modify the title in line 146.

Commit and push your changes.



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Create a pull request

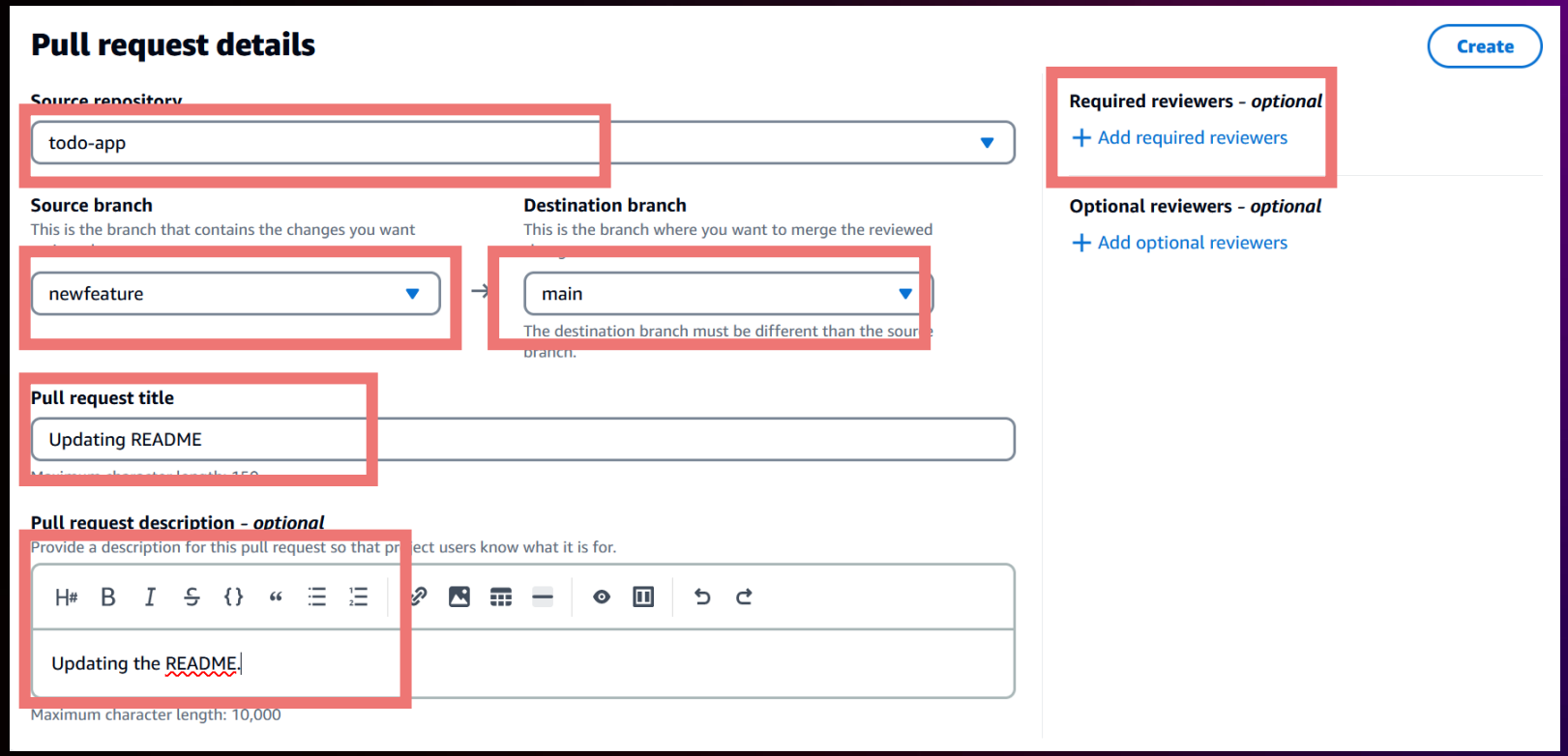
Go to **Code** > **Pull requests**. Click **Create pull request**.

Select your branch as the source and main as the destination.

Give your PR a title and description.

Select someone to review it.

Click **Create**.



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Recap next steps

- What we covered
  - Built our first Amazon CodeCatalyst project
  - Modified our CI/CD pipeline
- What’s next?
  - Evolve your application
  - Create your own custom blueprint

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Thank you!



Please complete the session survey in the **mobile app**

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