
AWS
re:Invent
NOV. 27 – DEC. 1, 2023 | LAS VEGAS, NV

DOP205

Accelerate DevOps with generative AI and Amazon CodeCatalyst

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Harry Mower

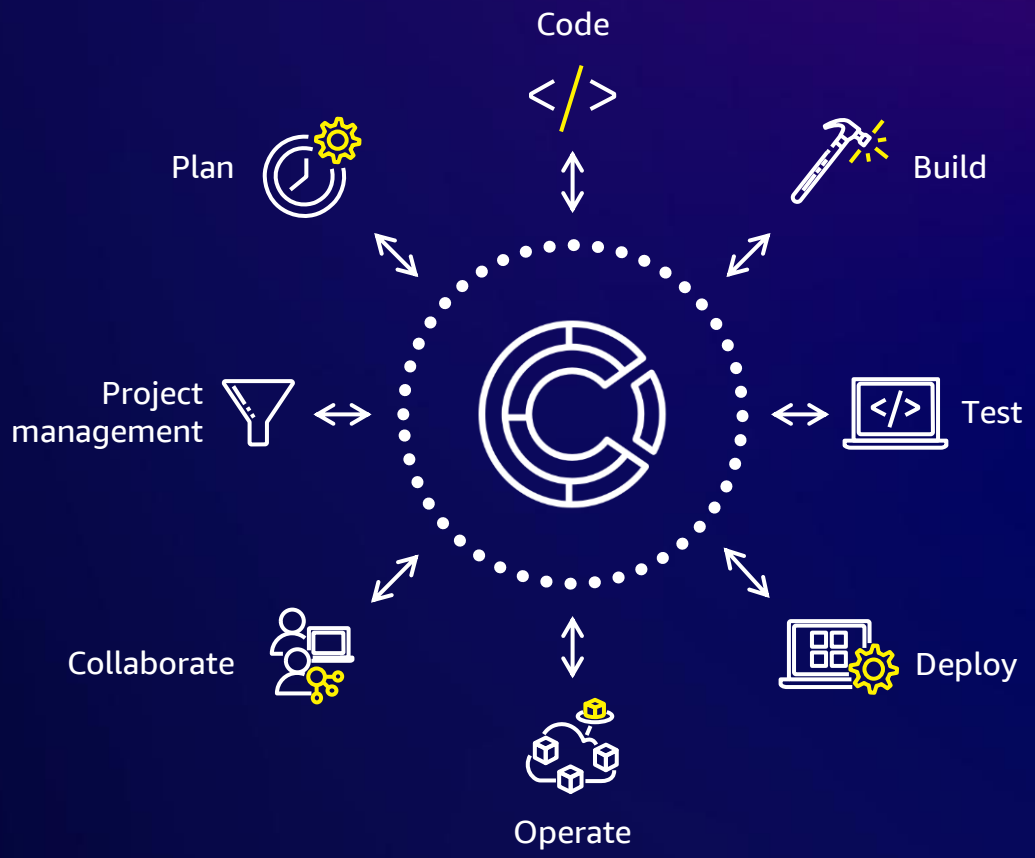
General Manager, DevOps Services
Amazon Web Services

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Launched in GA 4/20

Amazon CodeCatalyst

Unified software development for teams to go from planning to production faster on AWS



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Announcing new features in CodeCatalyst



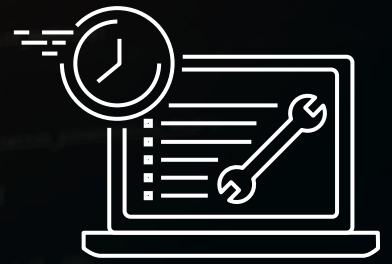
Enterprise tier and pricing



SSO, VPC and teams



Automated workflows



Custom blueprints and lifecycle management

NEW



Amazon Q in CodeCatalyst

A new generative AI powered assistant to accelerate your software development

AVAILABLE IN PREVIEW TODAY IN US-WEST-2

Feature development capability

- Summarize source code
- Refine goal
- Author code
- Create pull request
- Monitor workflows
- Resolve workflow errors

Pull request description

Pull request comment summary

aws

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NEW

Amazon Q feature development in CodeCatalyst

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Summarize source repository



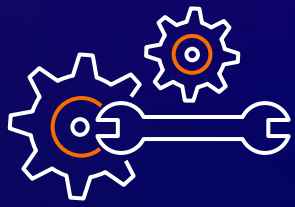
Develop an approach



Author code



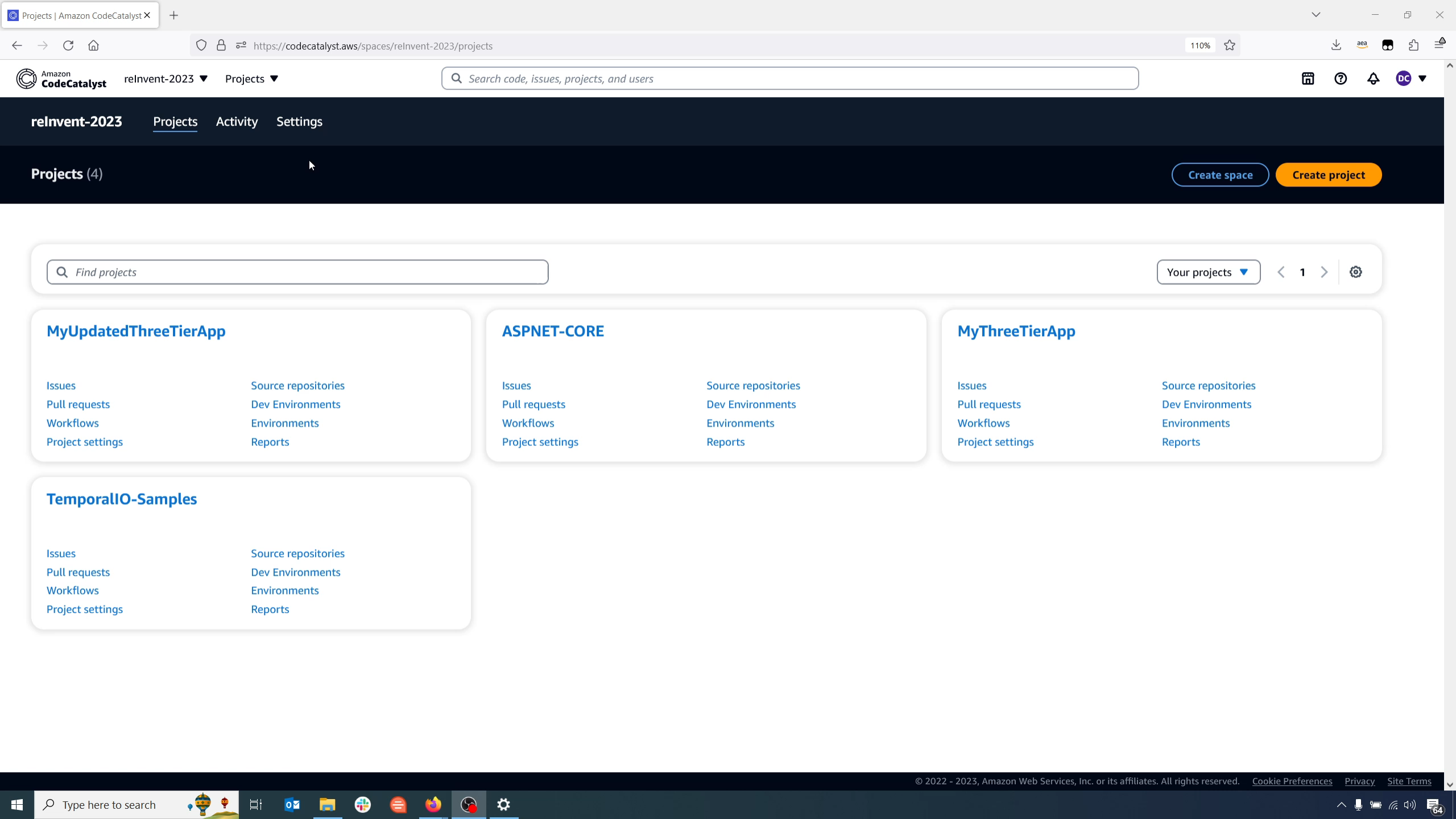
Create pull request



Monitor workflows and resolve errors

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Projects | Amazon CodeCatalyst
https://codecatalyst.aws/spaces/reInvent-2023/projects
110%
Amazon CodeCatalyst
reInvent-2023
Projects
Search code, issues, projects, and users
reInvent-2023
Projects
Activity
Settings
Projects (4)
Create space
Create project
Find projects
Your projects
1
MyUpdatedThreeTierApp
Issues
Pull requests
Workflows
Project settings
Source repositories
Dev Environments
Environments
Reports
ASPNET-CORE
Issues
Pull requests
Workflows
Project settings
Source repositories
Dev Environments
Environments
Reports
MyThreeTierApp
Issues
Pull requests
Workflows
Project settings
Source repositories
Dev Environments
Environments
Reports
TemporalIO-Samples
Issues
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Workflows
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Working with Amazon Q feature development capability

Detailed issues lead to better results

Iterate with AI for the best results

Work with popular languages

Planning phase is more mature than the coding phase

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Overview
Issues
Code
CI/CD
Reports
Project settings

Issues

Active issues 3

Search by title or content
All
Filter 1
Group
Sort by Manual order
Create issue

To do 0	In progress 0	In review 3	Done 0

Summarize the CDK stacks configured for this application
1 Updated 3 hours ago
–

Add ESLint as part of the OnPullRequest.yaml
5 Updated 2 hours ago
–

Fix linter warning
6 Updated an hour ago
–

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Give feedback

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Amazon Q
explanation and summarization

Write pull request description

Summarize pull request comments

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botocore
Overview
Issues
Code
Source repositories
Pull requests
Dev Environments
CI/CD
Reports
Project settings

Pull requests

Create pull request

Open | Any author | Matches: 0 | 1 ...

Title	ID	Status	Source repository	Author	Reviewers	Created	Last modified

No results

There are no pull requests that match the filter. Try using fewer characters or a different filter.

Clear filter

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Credential Scope change PR1

Open | Mergeable

botocore | account-id-endpoints ← credential-scope

Create Dev Environment | Close | Merge

Credential Scope change

Edit

Here are the key changes made in this code update:

1. Added support for propagating the credential scope from credential objects and credential provider sources (environment variables, configuration files, profiles) to clients similarly to how account ID is already handled.
2. Updated credential model and providers to support storing and loading the credential scope value.
3. Added AWS_CREDENTIAL_SCOPE builtin parameter to endpoint resolution to allow specifying the credential scope, similar to how AWS_ACCOUNT_ID works for account ID.
4. Updated endpoint resolution rules to support resolving the credential scope value from credentials and using it to construct the endpoint URL when the scope matches the region, similar to how account ID works.
5. Added tests to validate credential scope propagation and resolution behavior works as expected similarly to account ID.

So in summary, the main goal of these changes is to introduce support for propagating and using the credential scope value across different SDK components, analogous to how account ID is already handled, to allow clients to respect credential scope restrictions. This helps enable use cases where AWS credentials are scoped to particular regions.

The changes focus on the credentials, endpoint resolution and session components to inject and propagate the credential scope value through these components to the final client creation in a way that mirrors how account ID works currently. Tests were also added to validate the credential scope functionality.

Comment summary

Preview feature | Create comment summary

Comments on pull request (0)

You can add and view comments on this pull request. To add or view comments on specific lines of code, go to Changes.

No comments

You don't have any general comments about the pull request, but you might have comments on specific lines and changes.

Pull request details

Workflow runs (0)
Revision 1 (latest)
None

Issues (0)
Link issues

Required reviewers (0)
Add required reviewers

Optional reviewers (0)
Add optional reviewers

Author
YC Yilun Cui (you)

Feasible merge strategies

- Fast forward
- Squash

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Give feedback

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Amazon Q limits by CodeCatalyst tier

	Free	Standard	Enterprise
Feature development capability		15 per space/month	20 per user/month max 300 per space/month
Generate PR description	5 per space/month	15 per space/month	20 per user/month max 300 per space/month
Pull request comment summary			



Provide feedback with the feedback button in CodeCatalyst

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Take the next steps



Create an account on Amazon CodeCatalyst



Create a space in us-west-2 and a project



Create an issue and assign to Q, summarize PRs



Accelerate delivery

aws

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Thank you!



Please complete the session survey in the mobile app

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https://codecatalyst.aws/explore

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