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JOB PLACEMENT WITH HIGHEST PACKAGE - 30+ LPA

BATCH3.0 HIGHEST PACKAGE - 20+ LPA

BATCH3.0 PACKAGE FOR FRESHERS - 6+ LPA

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AWS DEVOPS CODEPIPELINE

Stage1

Step 1 - Use the CodeCommit console to create the CodeCommit repository

Create a secure repository to store and share your code. Begin by typing a repository name and a description for your repository. Repository names are included in the URLs for that repository.

Repository settings

Repository name
week2-demo
100 characters maximum. Other limits apply.

Description - optional
1,000 characters maximum

Tags
Add tag

Step 2- Create the IAM user role for codecommit and add the policy as permission: [singambatch]

AWSCodeCommitPowerUser - Add as permission to user

Step 1
Add permissions

Step 2
Review

Add permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Permissions options

Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

Copy permissions
Copy all group memberships, attached managed policies, inline policies, and any existing permissions boundaries from an existing user.

Attach policies directly
Attach a managed policy directly to a user. As best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Permissions policies (1/1114)

Policy name	Type	Attached entities
AWSCodeCommitPowerUser	AWS managed	0

Filter by Type: All types | 1 match

Policy name: AWSCodeCommitPowerUser

Cancel Next

Step3: Clone your aws codecommit repo in your local, Make sure you have the aws configure command already set up to access aws cli.

Clone repo -

The screenshot shows the AWS CodeCommit interface. At the top, a navigation bar lists 'Developer Tools > CodeCommit > Repositories > week2-demo'. Below the navigation, the repository name 'week2-demo' is displayed. On the right, there is a 'Clone URL' dropdown menu. The main content area is titled 'Connection steps' and includes tabs for 'HTTPS' (which is selected), 'SSH', and 'HTTPS (GRC)'. A large yellow progress bar is visible at the bottom of the page.

Step 3.1:

Step 3: Create Git credentials for HTTPS connections to CodeCommit

After you have installed Git, create Git credentials for your IAM user in IAM.

To set up HTTPS Git credentials for CodeCommit

1. Sign in to the AWS Management Console and open the IAM console at <https://console.aws.amazon.com/iam/>. Make sure to sign in as the IAM user who will create and use the Git credentials for connections to CodeCommit.
2. In the IAM console, in the navigation pane, choose **Users**, and from the list of users, choose your IAM user.

This screenshot shows the 'Users' section of the AWS IAM console. The 'Users' tab is selected. On the left, there is a sidebar with options like 'Search IAM', 'Dashboard', 'Groups', 'Users' (selected), 'Roles', 'Policies', 'Identity Providers', 'Account Settings', and 'Credential Report'. The main content area shows the 'SSH keys for AWS CodeCommit' section, which includes an 'Upload SSH public key' button and a table with columns 'SSH key ID', 'Uploaded', and 'Status'. Below this is the 'HTTPS Git credentials for AWS CodeCommit' section, which includes a 'Generate' button. The 'Generate' button is highlighted with a red oval.

IAM > Users > singambatch

singambatch Info

Summary

ARN	Console access	Access key 1
arn:aws:iam::164297528770:user/singambatch	Enabled without MFA	AKIASMQHFKXB13KUF3LX - Active Used 42 days ago. 77 days old.
Created May 27, 2023, 19:49 (UTC+05:30)	Last console sign-in 6 days ago	Access key 2 Create access key

Permissions Groups Tags (1) Security credentials Access Advisor

Console sign-in

Console sign-in link
<https://164297528770.signin.aws.amazon.com/console>

Console password
Updated 77 days ago (2023-05-27 19:49 GMT+5:30)

Last console sign-in
6 days ago (2023-08-06 17:05 GMT+5:30)

Multi-factor authentication (MFA) (0)
Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA device. Each user can have a maximum of 8 MFA devices assigned. [Learn more](#)

Remove Resync Assign MFA device

Device type	Identifier	Certifications	Created on
No MFA devices. Assign an MFA device to improve the security of your AWS environment			

Step 4 -

git clone

https://git-codecommit.us-west-1.amazonaws.com/v1/repos/wee_k2-demo

git clone --mirror

https://github.com/praveen1994dec/aws_pipeline.git github-repo

cd github-repo

git push

https://git-codecommit.us-west-1.amazonaws.com/v1/repos/wee_k2-demo --all

Step 5- Go to code commit and check the repo details

The screenshot shows the AWS CodeCommit interface. At the top, a breadcrumb navigation bar indicates the path: Developer Tools > CodeCommit > Repositories > week2-demo. Below this, the repository name "week2-demo" is displayed. A toolbar contains buttons for "Notify" (dropdown), "main" (branch dropdown), "Create pull request", and "Clone URL" (dropdown). The main content area shows the repository details: "Name" (highlighted in yellow), "buildspec.yml", and "buildspec1.yml". A "Add file" button is located in the top right corner of this section.

Stage2: Configure CodeBuild

Create Repository in Elastic Container Registry

The screenshot shows the AWS ECR interface. The navigation bar shows the path: Amazon ECR > Repositories > Create repository. The main title is "Create repository". Under the "General settings" tab, there are sections for "Visibility settings" (radio buttons for "Private" and "Public"), "Repository name" (input field containing "164297528770.dkr.ecr.us-west-1.amazonaws.com/"), "Tag immutability" (radio buttons for "Disabled" and "Enabled"), and a note about visibility settings being不可更改 (Once a repository is created, the visibility setting of the repository can't be changed).

164297528770.dkr.ecr.us-west-1.amazonaws.com/singambatch

2.1 -> #Setup a CodeBuild project

Click on create code build project -> select repository -> select branch -> and add the below data

Select the PRIVILEGED checkbox

The screenshot shows the AWS CodeBuild 'Create New Project' configuration page. A yellow checkmark highlights the 'Project name' field containing 'Build-demo'. Another yellow checkmark highlights the 'Source provider' dropdown set to 'AWS CodeCommit'. A third yellow checkmark highlights the 'Repository' search bar containing 'week2-demo'. A fourth yellow checkmark highlights the 'Branch' dropdown set to 'main'. A fifth yellow checkmark highlights the 'Source version' dropdown showing 'refs/heads/main'. A sixth yellow checkmark highlights the 'Git clone depth' dropdown set to 'Git submodules'.

Project name
Build-demo

A project name must be 2-255 characters. It can include the letters A-Z and a-z, the numbers 0-9, and the special characters - and _.

Description - *optional*

Build badge - *optional*

Enable build badge

Enable concurrent build limit - *optional*

Limit the number of allowed concurrent builds for this project.

Restrict number of concurrent builds this project can start

► Additional configuration
tags

Source

Add source

Source 1 - Primary

Source provider
AWS CodeCommit

Repository
week2-demo

Reference type

Choose the source version reference type that contains your source code.

Branch

Git tag

Commit ID

Branch

Choose a branch that contains the code to build.

main

Commit ID - *optional*

Choose a commit ID. This can shorten the duration of your build.

Source version Info

refs/heads/main

c0f204ba first commit

▼ Additional configuration
Git clone depth, Git submodules

New environment image

Managed image

Use an image managed by AWS CodeBuild

Custom image

Specify a Docker image

Operating system

Amazon Linux 2



Runtime(s)

Standard



Image

aws/codebuild/amazonlinux2-x86_64-standard:4.0



Image version

aws/codebuild/amazonlinux2-x86_64-standard:4.0-23.02.16



Privileged

- Enable this flag if you want to build Docker images or want your builds to get elevated privileges.

Service role

Choose an existing service role from your account



arn:aws:iam::164297528770:role/service-role/codebuild-service-rolec



FILL THE ENV VARIABLES:

- 7 GB memory, 4 vCPUs
- 15 GB memory, 8 vCPUs
- 145 GB memory, 72 vCPUs

Environment variables

Name	Value	Type	
AWS_DEFAULT_REGION	us-west-1	Plaintext	<input type="button" value="Remove"/>
AWS_ACCOUNT_ID	164297528770	Plaintext	<input type="button" value="Remove"/>
IMAGE_TAG	latest	Plaintext	<input type="button" value="Remove"/>
IMAGE_REPO_NAME	demo3	Plaintext	<input type="button" value="Remove"/>

Logs

CloudWatch

CloudWatch logs - *optional*

Checking this option will upload build output logs to CloudWatch.

Group name

demo3

Stream name

demo3

S3

S3 logs - *optional*

Checking this option will upload build output logs to S3.

2.2 -> Go to codebuild IAM role and attach this policy so that the codebuild can access ECR - [AmazonEC2ContainerRegistryPowerUser](#)

IAM > Roles > [codebuild-B-service-role](#) > Add permissions

Attach policy to codebuild-B-service-role

Current permissions policies (2)

Other permissions policies (Selected 1/869)

Policy name	Type	Description
<input type="checkbox"/> AmazonEC2ContainerRegistryReadOnly	AWS managed	Provides read-only access to Amazon ECR.
<input checked="" type="checkbox"/> AmazonEC2ContainerRegistryPowerUser	AWS managed	Provides full access to Amazon ECR.
<input type="checkbox"/> AmazonEC2ContainerRegistryFullAccess	AWS managed	Provides administrative access to Amazon ECR.

Cancel [Add permissions](#)

2.3 - Go to codebuild -> Run the build

Services Search [Option+S]

Build started
You have successfully started the following build: Build-demo3:b9b2b69c-a4b8-4979-a27d-05fc5efd90ec

Developer Tools > CodeBuild > Build projects > Build-demo3 > Build-demo3:b9b2b69c-a4b8-4979-a27d-05fc5efd90ec

Build-demo3:b9b2b69c-a4b8-4979-a27d-05fc5efd90ec

Stop build Retry build

Build status			
Status In progress	Initiator singambatch	Build ARN arn:aws:codebuild:us-west-1:164297528770:build/Build-demo3:b9b2b69c-a4b8-4979-a27d-05fc5efd90ec	Resolved source version -
Start time Aug 6, 2023 7:49 PM (UTC+5:30)	End time -	Build number 1	

Stage3 - Create a CodePipeline

Step1 - Create the code pipeline

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Choose pipeline settings Info

Step 1
Choose pipeline settings

Step 2
Add source stage

Step 3
Add build stage

Step 4
Add deploy stage

Step 5
Review

Pipeline settings

Pipeline name
Enter the pipeline name. You cannot edit the pipeline name after it is created.
 No more than 100 characters

Service role

New service role
Create a service role in your account

Existing service role
Choose an existing service role from your account

Role name

Type your service role name

Allow AWS CodePipeline to create a service role so it can be used with this new pipeline

▼ Advanced settings

Artifact store

Default location
Create a default S3 bucket in your account.

Custom location
Choose an existing S3 location from your account in the same region and account as your pipeline

Encryption key

Default AWS Managed Key
Use the AWS managed customer master key for CodePipeline in your account to encrypt the data in the artifact store.

Customer Managed Key
To encrypt the data in the artifact store under an AWS KMS customer managed key, specify the key ID, key ARN, or alias ARN.

Step2-

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 1
Choose pipeline settings

Step 2
Add source stage

Step 3
Add build stage

Step 4
Add deploy stage

Step 5
Review

Add source stage Info

Source

Source provider
This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.

AWS CodeCommit

Repository name
Choose a repository that you have already created where you have pushed your source code.

week2-demo

Branch name
Choose a branch of the repository

main

Change detection options
Choose a detection mode to automatically start your pipeline when a change occurs in the source code.

Amazon CloudWatch Events (recommended)
Use Amazon CloudWatch Events to automatically start my pipeline when a change occurs

AWS CodePipeline
Use AWS CodePipeline to check periodically for changes

Output artifact format
Choose the output artifact format.

CodePipeline default
AWS CodePipeline uses the default zip format for artifacts in the pipeline. Does not include Git metadata about the repository.

Full clone
AWS CodePipeline passes metadata about the repository that allows subsequent actions to do a full Git clone. Only supported for AWS CodeBuild actions.

Cancel Previous Next

Step3 -

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 1
Choose pipeline settings

Step 2
Add source stage

Step 3
Add build stage

Step 4
Add deploy stage

Step 5
Review

Add build stage Info

Build - optional

Build provider
This is the tool of your build project. Provide build artifact details like operating system, build spec file, and output file names.

AWS CodeBuild

Region
US West (N. California)

Project name
Choose a build project that you have already created in the AWS CodeBuild console. Or create a build project in the AWS CodeBuild console and then return to this task.

build-job-pipeline

Environment variables - optional
Choose the key, value, and type for your CodeBuild environment variables. In the value field, you can reference variables generated by CodePipeline. [Learn more](#)

Add environment variable

Build type

Single build
Triggers a single build.

Batch build
Triggers multiple builds as a single execution.

Cancel Previous Skip build stage Next

Step4 -

Skip the deploy stage and save [The pipeline will trigger]

Happy Learning,

Singam