Creating CodeBuild Project

- Navigate to CodeBuild Service and Create a Project
- Project configuration
 - Project name
 - Enter a name for this build project. Build project names must be unique across each AWS account.
 - Description
 - Enter an optional description of the build project on what this project is used for.
 - Build badge
 - Select to make your project's build status visible and embeddable. For more information, see Build badges sample. #Select values to run standard Amazon Linux 2 image as a managed image

Source provider

 Choose the source code provider type. Use the following lists to make selections appropriate for your source provider:

[No Source]

• If you select this option, u should enter build commands in a text editor in below **buildspec** configuration.

[Amazon S3]

Bucket: Choose the name of the input bucket that contains the source code.

S3 object key or S3 folder: Enter the name of the ZIP file or the path to the folder that contains the source code. Enter a forward slash (/) to download everything in the S3 bucket.

Source version: Enter the version ID of the object that represents the build of your input file.

[CodeCommit]

Repository

• Choose the repository you want to use.

Reference type

Choose Branch, Git tag, or Commit ID to specify the version of your source code. For more
information, see Source version sample with AWS CodeBuild.

Git clone depth

• Choose to create a shallow clone with a history truncated to the specified number of commits. If you want a full clone, choose **Full**.

[GitHub]

Repository

- Choose **Connect using OAuth** or **Connect with a GitHub personal access token ** and follow the instructions to connect (or reconnect) to GitHub and authorize access to AWS CodeBuild.
- Choose a public repository or a repository in your account.

Source version Enter a branch, commit ID, tag, or reference and a commit ID. For more information.

Git clone depth Choose **Git clone depth** to create a shallow clone with a history truncated to the specified number of commits. If you want a full clone, choose **Full**.

Environment

Environment image: Choose one of the below

- To use a Docker image managed by AWS CodeBuild, choose **Managed image**, and then make selections from **Operating system**, **Runtime(s)**, **Image**, and **Image version**. Make a selection from **Environment type** if it is available.
- To use another Docker image, choose Custom image. For Environment type, choose ARM, Linux, Linux GPU, or Windows (Supported in few AWS Regions). If you choose Other registry, for External registry URL, enter the name and tag of the Docker image in Docker Hub, using the format docker repository/docker image name. If you choose Amazon ECR, use Amazon ECR repository and Amazon ECR image to choose the Docker image in your AWS account.
- To use a private Docker image, choose Custom image. For Environment type, choose ARM, Linux, Linux GPU, or Windows. For Image registry, choose Other registry, and then enter the ARN of the credentials for your private Docker image.

Privileged

(Optional) Select **Privileged** only if you plan to use this build project to build Docker images, and the
build environment image you chose is not provided by CodeBuild with Docker support. Otherwise, all
associated builds that attempt to interact with the Docker daemon fail. You must also start the Docker
daemon so that your builds can interact with it. One way to do this is to initialize the Docker daemon in
the install phase of your build spec by running the following build commands. Do not run these
commands if you chose a build environment image provided by CodeBuild with Docker support.

Service role: Choose one of the following:

- If you do not have a CodeBuild service role, choose **New service role**. In **Role name**, enter a name for the new role.
- If you have a CodeBuild service role, choose **Existing service role**. In **Role ARN**, choose the service role.

Additional configuration

Timeout

- Specify a value between 5 minutes and 480 minutes (8 hours) after which CodeBuild stops the build if it is not complete.
- **VPC** If you want CodeBuild to work with your VPC:
 - For **VPC**, choose the VPC ID that CodeBuild uses.
 - For **VPC Subnets**, choose the subnets that include resources that CodeBuild uses.
 - For **VPC Security groups**, choose the security groups that CodeBuild uses to allow access to resources in the VPCs.
- **Compute**: Choose one of the available options.
 - Environment variables
 - Enter the name and value, and then choose the type of each environment variable for builds to use.
 - CodeBuild will inject these values at Build Runtime that can be accessed inside the buildspec.yml file.

Buildspec

Build specifications: Do one of the following:

- If your source code includes a buildspec file, choose **Use a buildspec file**. By default, CodeBuild looks for a file named buildspec.yml in the source code root directory. If your buildspec file uses a different name or location, enter its path from the source root in **Buildspec name** (for example, buildspectwo.yml or configuration/buildspec.yml.
- If your source code does not include a buildspec file, choose Insert build commands. For Build
 commands, enter the commands you want to run in the build phase. and enter the commands to be
 executed in various phases of CodeBuild Runtime

CodeBuild Project Execution:

• Select Start Build to execute the CodeBuild Run and verify build details along with phases information.