# CD Approval Based Deployments

Setting Up Environments:

Environments are used to describe a general deployment target like production, staging, or development. When a GitHub Actions workflow deploys to an environment, the environment is displayed on the main page of the repository. You can use environments to require approval for a job to proceed, restrict which branches can trigger a workflow, or limit access to secrets.

Steps to Create Environments:

- Go to your repository settings and you'll see a new section called Environments in the navigation.
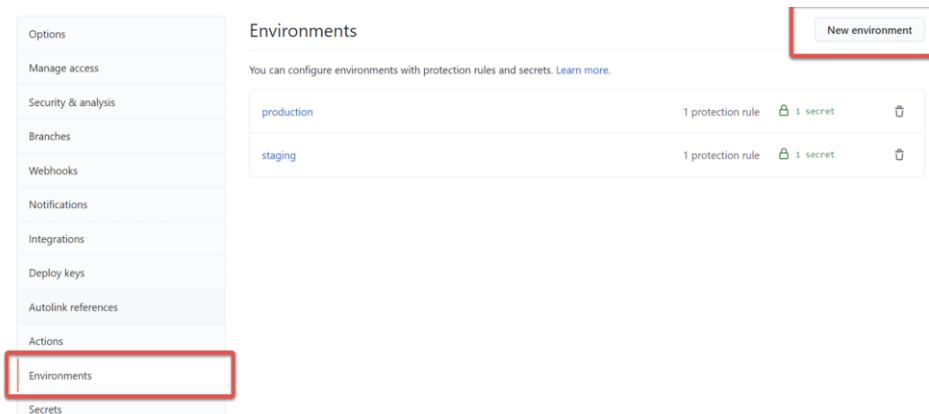
- Under Environment Configuration
  - Set the Environment Protection Rules – Which includes Setting the Reviewers for the environment.
 - Set the Deployment branch.

  - Set the Environment variables if any.

Reviewing and approving or rejecting deployments:

Jobs that reference an environment configured with required reviewers will wait for an approval before starting. While a job is awaiting approval, it has a status of "Waiting". If a job is not approved within 30 days, the workflow run will be automatically canceled.

Approving or rejecting a job

- Navigate to the workflow run that requires review. For more information about navigating to a workflow run,
- Click **Review deployments**.
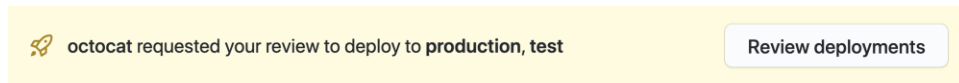
- Select the job environment(s) to approve or reject. Optionally, leave a comment.

- Approve or reject:
    - To approve the job, click **Approve and deploy**. Once a job is approved (and any other environment protection rules have passed), the job will proceed. At this point, the job can access any secrets stored in the environment.
    - To reject the job, click **Reject**. If a job is rejected, the workflow will fail.

CD – Deployment to different environments:

With the Environments setup, we can now return to our GitHub Actions workflow to release to different environments.