





Deploy a simple Nginx application using AWS code commit and deploy & access via browser

Developer Tools > CodeCommit > Repositories

Repositories [info](#)   [Clone URL](#) [View repository](#) [Delete repository](#) [Create repository](#)

< 1 > 

	Name	Description	Last modified	Clone URL	AWS KMS Key
<input type="radio"/>	Nginxapp	-	Just now	HTTPS SSH HTTPS (GRC)	arn:aws:kms:ap-south-1:558115454328:key/93c5cec6-a70c-4b3a-8f18-feedc2091f4b

 Copied
https://git-codecommit.ap-south-1.amazonaws.com/v1/repos/Nginxapp

Developer Tools > CodeCommit > Repositories > Nginxapp

Nginxapp

[Clone URL](#)

▼ Connection steps

[HTTPS](#) [SSH](#) [HTTPS \(GRC\)](#)

```
PS C:\Users\USER> cd Downloads/
PS C:\Users\USER\Downloads> git clone https://git-codecommit.ap-south-1.amazonaws.com/v1/repos/Nginxapp
Cloning into 'Nginxapp'...
warning: You appear to have cloned an empty repository.
PS C:\Users\USER\Downloads> cd Nginxapp/
PS C:\Users\USER\Downloads\Nginxapp> ls

Directory: C:\Users\USER\Downloads\Nginxapp

Mode                LastWriteTime         Length Name
----                -
d-----          07-05-2024    10:11             scripts
-a-----          07-05-2024    10:11             271 appspec.yml
-a-----          07-05-2024    10:11             333 buildspec.yml
-a-----          07-05-2024    10:11             452 index.html

PS C:\Users\USER\Downloads\Nginxapp> git add .
warning: in the working copy of 'appspec.yml', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'buildspec.yml', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'index.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'scripts/install_nginx.sh', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'scripts/start_nginx.sh', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\USER\Downloads\Nginxapp> git commit -m "Pipeline"
[master (root-commit) 524fbbf7] Pipeline
5 files changed, 68 insertions(+)
create mode 100644 appspec.yml
create mode 100644 buildspec.yml
create mode 100644 index.html
create mode 100644 scripts/install_nginx.sh
```

```
PS C:\Users\USER\Downloads\Nginxapp> git branch
* master
PS C:\Users\USER\Downloads\Nginxapp> git push -u origin master
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 4 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (8/8), 1.04 KiB | 266.00 KiB/s, done.
Total 8 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Validating objects: 100%
To https://git-codecommit.ap-south-1.amazonaws.com/v1/repos/Nginxapp
* [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
PS C:\Users\USER\Downloads\Nginxapp> |
```

Developer Tools > CodeCommit > Repositories > Nginxapp

Nginxapp

Notify ▼

Reference
master ▼

Create pull request

Clone URL ▼

Nginxapp Info

Add file ▼

	Name
📁	scripts
📄	appspec.yml
📄	buildspec.yml
📄	index.html

Create build project

Project configuration

Project name

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

► Additional configuration

Description, Build badge, Concurrent build limit, tags

Source

Add source

Source 1 - Primary

Source provider

Repository

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.

master ▼

Commit ID - *optional*

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



Source version [Info](#)

refs/heads/master

524fbf74 Pipeline

► Additional configuration

Git clone depth, Git submodules

Environment

Provisioning model [Info](#)

☒ On-demand

Automatically provision build infrastructure in response to new builds.

☐ Reserved capacity

Use a dedicated fleet of instances for builds. A fleet's compute and environment type will be used for the project.

Environment image

☒ Managed image

Use an image managed by AWS CodeBuild

☐ Custom image

Specify a Docker image

Operating system

Ubuntu ▼

Runtime(s)

Standard ▼

Image

aws/codebuild/standard:7.0 ▼

Image version

Always use the latest image for this runtime version ▼

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

codebuild-Nginxbuild-service-role

Type your service role name

► **Additional configuration**

Timeout, privileged, certificate, VPC, compute type, environment variables, file systems

Buildspec

Build specifications

☐ Insert build commands
Store build commands as build project configuration

☒ Use a buildspec file
Store build commands in a YAML-formatted buildspec file

Buildspec name - *optional*

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 here (for example, buildspec-two.yml or configuration/buildspec.yml).

Batch configuration

You can run a group of builds as a single execution. Batch configuration is also available in advanced option when starting build.

☐ Define batch configuration - *optional*
You can also define or override batch configuration when starting a build batch.

Artifacts

Add artifact

Artifact 1 - Primary

Type

You might choose no artifacts if you are running tests or pushing a Docker image to Amazon ECR.

Bucket name

aws2002

Name

The name of the folder or compressed file in the bucket that will contain your output artifacts. Use Artifacts packaging under Additional configuration to choose whether to use a folder or compressed file. If the name is not provided, defaults to project name.

artifact

☐ Enable semantic versioning

Use the artifact name specified in the buildspec file

Path - *optional*

The path to the build output ZIP file or folder.

artifact.zip

Example: MyPath/MyArtifact.zip.

Namespace type - *optional*

None

Choose Build ID to insert the build ID into the path to the build output ZIP file or folder, e.g. MyPath/MyBuildID/MyArtifact.zip. Otherwise, choose None.

Artifacts packaging

☐ None
The artifact files will be uploaded to the bucket.

☒ Zip
AWS CodeBuild will upload artifacts into a compressed file that is put into the specified bucket.

Project created

Create a notification rule for this project

You have successfully created the following project: Nginxbuild

Developer Tools > CodeBuild > Build projects > Nginxbuild

Nginxbuild

Actions Create trigger Edit Clone Debug build Start build with overrides Start build

Configuration

Source provider AWS CodeCommit	Primary repository Nginxapp	Artifacts upload location aws2002	Service role arn:aws:iam::558115454328:role/service-role/codebuild-Nginxbuild-service-role
Public builds Disabled			

Build status

Status	Initiator	Build ARN	Resolved source version
✔ Succeeded	root	arn:aws:codebuild:ap-south-1:558115454328:build/Nginxbuild:53f8a370-b5b0-4ca1-836d-d9b3bc1b7729	524fbf74794ecc8ceab23de26e06b3bbb4767b5
Start time	End time	Build number	
May 7, 2024 10:24 AM (UTC+5:30)	May 7, 2024 10:25 AM (UTC+5:30)	1	

Build logs

Phase details

Reports

Environment variables

Build details

Resource utilization

Name	Status	Context	Duration	Start time	End time
SUBMITTED	✔ Succeeded	-	<1 sec	May 7, 2024 10:24 AM (UTC+5:30)	May 7, 2024 10:24 AM (UTC+5:30)
QUEUED	✔ Succeeded	-	<1 sec	May 7, 2024 10:24 AM (UTC+5:30)	May 7, 2024 10:24 AM (UTC+5:30)
PROVISIONING	✔ Succeeded	-	3 secs	May 7, 2024 10:24 AM (UTC+5:30)	May 7, 2024 10:24 AM (UTC+5:30)
DOWNLOAD_SOURCE	✔ Succeeded	-	6 secs	May 7, 2024 10:24 AM (UTC+5:30)	May 7, 2024 10:24 AM (UTC+5:30)
INSTALL	✔ Succeeded	-	33 secs	May 7, 2024 10:24 AM (UTC+5:30)	May 7, 2024 10:25 AM (UTC+5:30)
PRE_BUILD	✔ Succeeded	-	<1 sec	May 7, 2024 10:25 AM (UTC+5:30)	May 7, 2024 10:25 AM (UTC+5:30)

✔ Application created

In order to create a new deployment, you must first create a deployment group.

Create a notification rule for this application

×

[Developer Tools](#) > [CodeDeploy](#) > [Applications](#) > Nginx-dg

Nginx-dg

Notify

Delete application

Application details

Name	Compute platform
Nginx-dg	EC2/on-premises

Create deployment group

Application

Application

Nginx-dg

Compute type

EC2/on-premises

Deployment group name

Enter a deployment group name

100 character limit

Service role

Enter a service role

Enter a service role with CodeDeploy permissions that grants AWS CodeDeploy access to your target instances.



Environment configuration

Select any combination of Amazon EC2 Auto Scaling groups, Amazon EC2 instances and on-premises instances to add to this deployment

☐ Amazon EC2 Auto Scaling groups

☒ Amazon EC2 instances

1 unique matched instance. [Click here for details](#)

You can add up to three groups of tags for EC2 instances to this deployment group.

One tag group: Any instance identified by the tag group will be deployed to.

Multiple tag groups: Only instances identified by all the tag groups will be deployed to.

Tag group 1

Key

Value - optional

Q Name

X

Q aws_nginx

X

Remove tag

Add tag

+ Add tag group

☐ On-premises instances

Matching instances

1 unique matched instance. [Click here for details](#)

```
ubuntu@ip-172-31-39-125:~$ systemctl status codedeploy-agent
● codedeploy-agent.service - LSB: AWS CodeDeploy Host Agent
   Loaded: loaded (/etc/init.d/codedeploy-agent; generated)
   Active: active (running) since Tue 2024-05-07 05:25:35 UTC; 6min ago
     Docs: man:systemd-sysv-generator(8)
    Tasks: 2 (limit: 1121)
   Memory: 56.8M
      CPU: 1.179s
   CGroup: /system.slice/codedeploy-agent.service
           └─2590 "codedeploy-agent: master 2590"
           └─2592 "codedeploy-agent: InstanceAgent::Plugins::CodeDeployPlugin::CommandPoller of master 2590"

May 07 05:25:35 ip-172-31-39-125 systemd[1]: Starting LSB: AWS CodeDeploy Host Agent...
May 07 05:25:35 ip-172-31-39-125 codedeploy-agent[2584]: Starting codedeploy-agent:
May 07 05:25:35 ip-172-31-39-125 systemd[1]: Started LSB: AWS CodeDeploy Host Agent.
ubuntu@ip-172-31-39-125:~$ sudo systemctl restart codedeploy-agent
ubuntu@ip-172-31-39-125:~$ systemctl status codedeploy-agent
● codedeploy-agent.service - LSB: AWS CodeDeploy Host Agent
   Loaded: loaded (/etc/init.d/codedeploy-agent; generated)
   Active: active (running) since Tue 2024-05-07 05:32:33 UTC; 7s ago
     Docs: man:systemd-sysv-generator(8)
  Process: 5063 ExecStart=/etc/init.d/codedeploy-agent start (code=exited, status=0/SUCCESS)
    Tasks: 2 (limit: 1121)
   Memory: 63.0M
      CPU: 1.155s
   CGroup: /system.slice/codedeploy-agent.service
           └─5070 "codedeploy-agent: master 5070"
           └─5072 "codedeploy-agent: InstanceAgent::Plugins::CodeDeployPlugin::CommandPoller of master 5070"

May 07 05:32:33 ip-172-31-39-125 systemd[1]: Stopped LSB: AWS CodeDeploy Host Agent.
May 07 05:32:33 ip-172-31-39-125 systemd[1]: codedeploy-agent.service: Consumed 1.698s CPU time.
May 07 05:32:33 ip-172-31-39-125 systemd[1]: Starting LSB: AWS CodeDeploy Host Agent...
May 07 05:32:33 ip-172-31-39-125 codedeploy-agent[5063]: Starting codedeploy-agent:
May 07 05:32:33 ip-172-31-39-125 systemd[1]: Started LSB: AWS CodeDeploy Host Agent.
ubuntu@ip-172-31-39-125:~$
```

Nginx-group

Edit

Delete

Create deployment

Deployment group details		
Deployment group name	Application name	Compute platform
Nginx-group	Nginx-dg	EC2/on-premises
Deployment type	Service role ARN	Deployment configuration
In place	arn:aws:iam::558115454328:role/codedeployrule	CodeDeployDefault.AllAtOnce
Rollback enabled	Agent update scheduler	
False	Learn to schedule update in AWS Systems Manager	

Environment configuration: Amazon EC2 instances	
Key	Value
Name	aws_nginx

Create deployment

Deployment settings

Application

Nginx-dg

Deployment group

Q Nginx-group



Compute platform

EC2/on-premises

Deployment type

In place

createDeploymentGroup.formSection.managedHookRole.label

createDeployment.formSection.managedHookRole.description [createDeployment.formSection.managedHookRole.updateDeploymentGroup](#)

-

Revision type

☒ My application is stored in Amazon S3

☐ My application is stored in GitHub

Revision location

Copy and paste the Amazon S3 bucket where your revision is stored

Q s3://aws2002/artifact.zip/artifact



[Developer Tools](#) > [CodeDeploy](#) > [Deployments](#) > d-RP3BJ70U4

d-RP3BJ70U4



Copy deployment

Retry deployment

Deployment status

Installing application on your instances

1 of 1 instances updated Succeeded

100%

Deployment details

Application

[Nginx-dg](#)

Deployment ID

d-RP3BJ70U4

Status

Succeeded

Deployment configuration

[CodeDeployDefault.AllAtOnce](#)

Deployment group

[Nginx-group](#)

Initiated by

User action

Deployment description

-

Event	Duration	Status	Error code	Start time	End time
ApplicationStop	less than one second	✔ Succeeded	-	May 7, 2024 11:09 AM (UTC+5:30)	May 7, 2024 11:09 AM (UTC+5:30)
DownloadBundle	less than one second	✔ Succeeded	-	May 7, 2024 11:09 AM (UTC+5:30)	May 7, 2024 11:09 AM (UTC+5:30)
BeforeInstall	less than one second	✔ Succeeded	-	May 7, 2024 11:09 AM (UTC+5:30)	May 7, 2024 11:09 AM (UTC+5:30)
Install	less than one second	✔ Succeeded	-	May 7, 2024 11:09 AM (UTC+5:30)	May 7, 2024 11:09 AM (UTC+5:30)
AfterInstall	10 seconds	✔ Succeeded	-	May 7, 2024 11:09 AM (UTC+5:30)	May 7, 2024 11:09 AM (UTC+5:30)
ApplicationStart	1 second	✔ Succeeded	-	May 7, 2024 11:09 AM (UTC+5:30)	May 7, 2024 11:09 AM (UTC+5:30)
ValidateService	less than one second	✔ Succeeded	-	May 7, 2024 11:09 AM (UTC+5:30)	May 7, 2024 11:09 AM (UTC+5:30)

