

AWS Solutions Architect Certification Training

support@intellipaat.com - +91-7022374614 - US: 1-800-216-8930 (Toll Free)

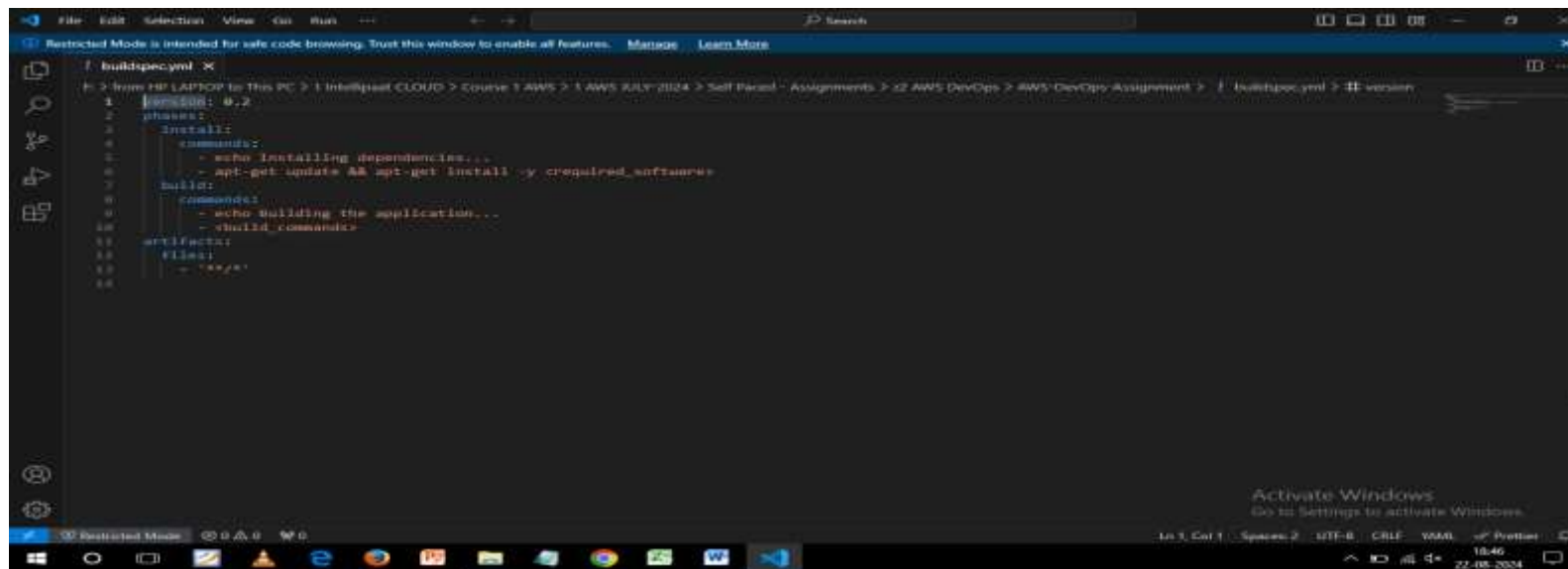
AWS-DevOps-Assignment COMPLETED by Nagesha. K.S. Please check the following screenshots for each question.

Problem Statement:

You are assigned to take care of your companies' DevOps pipeline using AWS Developer tools.

You are asked to:

1. Import a **GitHub repository** to a **CodeCommit** repository (OR) Use your GitHub repository
2. Use **CodeBuild** to connect with your **GitHub or CodeCommit** repository to install the required software
3. Launch an instance, which will be used in your deployment group of the **CodeDeploy** application
4. Use **CodePipeline** to connect all these services to create a **CI/CD pipeline**
5. Create one more CI/CD pipeline where you use an Elastic Beanstalk application in the deploy stage



The screenshot shows a Windows File Explorer window with the address bar displaying the path: `C:\Users\HP LAPTOP\OneDrive\Intellipaat\AWS\Course 1 AWS\1 AWS JULY 2024\Self Paced\Assignments\22 AWS DevOps\AWS DevOps Assignment\buildspec.yml`. The file 'buildspec.yml' is open, showing the following content:

```
version: 0.2
phase:
  install:
    commands:
      - echo installing dependencies...
      - apt-get update && apt-get install -y required_software
  build:
    commands:
      - echo building the application...
      - build_commands
  artifact:
    files:
      - '**/*'
```

The Windows taskbar at the bottom shows the system clock as 18:46 on 22-08-2024. An 'Activate Windows' watermark is visible in the bottom right corner of the window.

Repositories | AWS Developer T...
us-east-1.console.aws.amazon.com/codesuite/codecommit/repositories?region=us-east-1

aws Services Search [Alt+S] N. Virginia Nagesha KS

Developer Tools
CodeCommit

Source • CodeCommit
Getting started
Repositories
Approval rule templates
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Settings
Go to resource
Feedback

Developer Tools > CodeCommit > Repositories

AWS CodeCommit is no longer available to new customers. Existing customers of AWS CodeCommit can continue to use the service as normal. [Learn more](#)

Repositories Info

Refresh

Notify

Clone URL

View repository

Delete repository

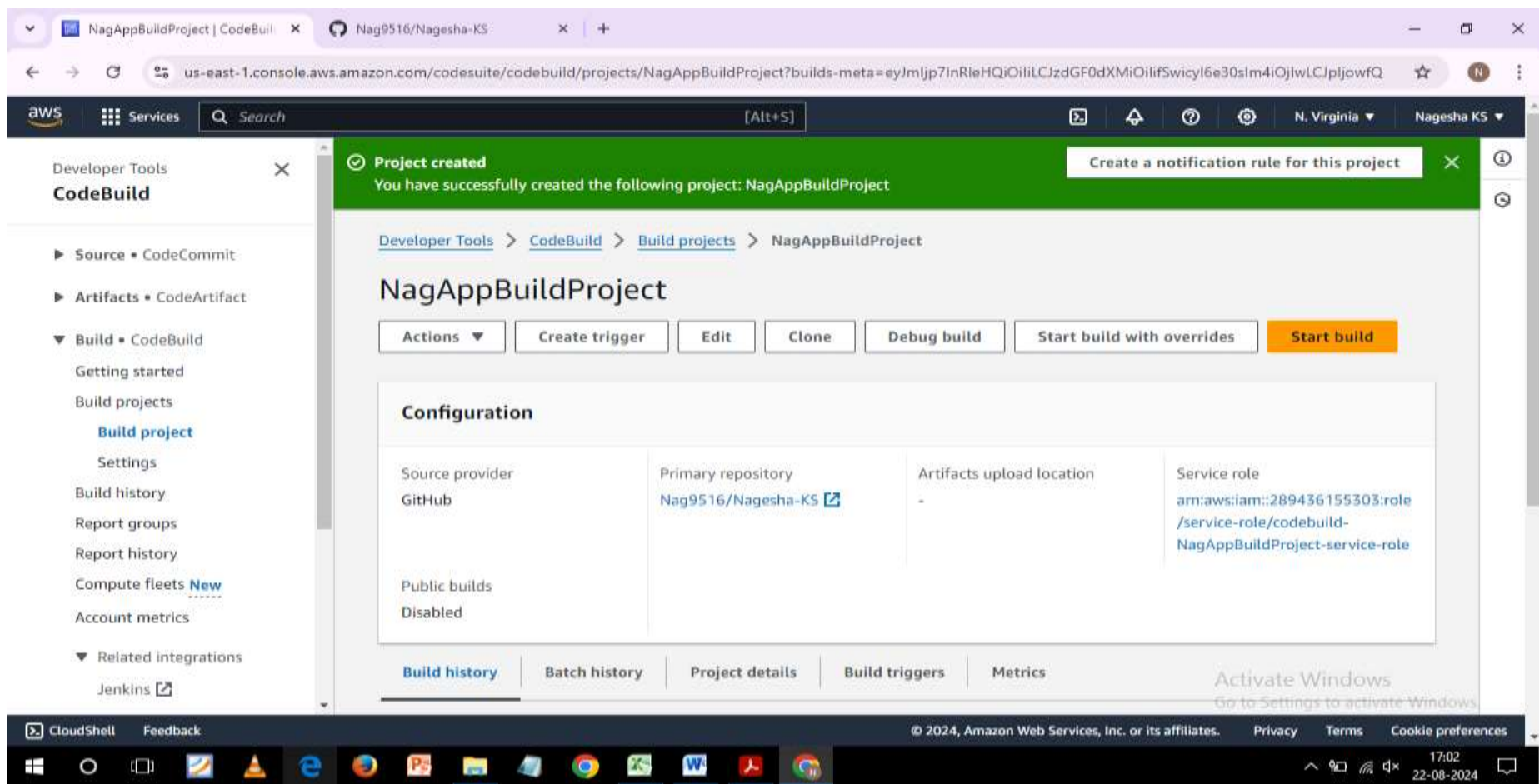
Create repository

< 1 > ⚙

Name	Description	Last modified	Clone URL	AWS KMS Key
No results There are no results to display.				

Activate Windows
Go to Settings to activate Windows.

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 16:55 22-08-2024



Nag9516/Nagesha-KS

NagAppBuildProject | CodeBuild

Instances | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceId=i-0a6f0eba23e1af002

aws

Services

Search

[Alt+S]

N. Virginia

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EC2 Dashboard

EC2 Global View

Events

Console-to-Code

Preview

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations

New

Images

AMIs

AMI Catalog

Instances (1/1)

Info

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance ID = i-0a6f0eba23e1af002

Clear filters

< 1 >

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Av
<input checked="" type="checkbox"/>	NagDeploymentInstance	i-0a6f0eba23e1af002	Running	t2.micro	Initializing	View alarms +	us-

i-0a6f0eba23e1af002 (NagDeploymentInstance)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary

Info

Instance ID

i-0a6f0eba23e1af002 (NagDeploymentInstance)

IPv6 address

-

Public IPv4 address

44.204.170.198 | open address

Instance state

Running

Private IPv4 addresses

172.31.6.178

Public IPv4 DNS

ec2-44-204-170-198.compute-1.amazonaws.com | open address

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17:10

22-08-2024

ec2-user@ip-172-31-6-178:~

To get started with Bundler, you may need to restart your current shell or run:

```
source /etc/profile.d/bundler.sh
```

For non-root users, this sets the GEM_HOME environment variable which specifies the default directory where RubyGems outside of the system path are installed.

By default, \$GEM_HOME will point to ~/.local/share/gem/ruby

```
=====
Installing      : ruby3.2-rubygem-io-console-0.6.0-180.amzn2023.0.3.  5/10
Installing      : ruby3.2-rubygem-json-2.6.3-180.amzn2023.0.3.x86_64  6/10
Installing      : ruby3.2-rubygem-psych-5.0.1-180.amzn2023.0.3.x86_64  7/10
Installing      : ruby3.2-rubygem-rdoc-6.5.0-180.amzn2023.0.3.noarch  8/10
Installing      : ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch  9/10
Installing      : ruby3.2-3.2.2-180.amzn2023.0.3.x86_64  10/10
Running scriptlet: ruby3.2-3.2.2-180.amzn2023.0.3.x86_64  10/10
Running scriptlet: ruby3.2-rubygem-bundler-2.4.10-180.amzn2023.0.3.no  10/10
Running scriptlet: ruby3.2-rubygem-rdoc-6.5.0-180.amzn2023.0.3.noarch  10/10
Running scriptlet: ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch  10/10
Running scriptlet: ruby3.2-3.2.2-180.amzn2023.0.3.x86_64  10/10
Running scriptlet: ruby3.2-3.2.2-180.amzn2023.0.3.x86_64  10/10
Verifying       : ruby3.2-3.2.2-180.amzn2023.0.3.x86_64  10/10
Verifying       : ruby3.2-default-gems-3.2.2-180.amzn2023.0.3.noarch  1/10
Verifying       : ruby3.2-libs-3.2.2-180.amzn2023.0.3.x86_64  2/10
Verifying       : ruby3.2-rubygem-bigdecimal-3.1.3-180.amzn2023.0.3.x86_64  3/10
Verifying       : ruby3.2-rubygem-bundler-2.4.10-180.amzn2023.0.3.noarch  4/10
Verifying       : ruby3.2-rubygem-io-console-0.6.0-180.amzn2023.0.3.x86_64  5/10
Verifying       : ruby3.2-rubygem-json-2.6.3-180.amzn2023.0.3.x86_64  6/10
Verifying       : ruby3.2-rubygem-psych-5.0.1-180.amzn2023.0.3.x86_64  7/10
Verifying       : ruby3.2-rubygem-rdoc-6.5.0-180.amzn2023.0.3.noarch  8/10
Verifying       : ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch  9/10
Verifying       : ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch  10/10
```

Installed:

```
ruby3.2-3.2.2-180.amzn2023.0.3.x86_64
ruby3.2-libs-3.2.2-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-bundler-2.4.10-180.amzn2023.0.3.noarch
ruby3.2-rubygem-json-2.6.3-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-rdoc-6.5.0-180.amzn2023.0.3.noarch
ruby3.2-default-gems-3.2.2-180.amzn2023.0.3.noarch
ruby3.2-rubygem-bigdecimal-3.1.3-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-io-console-0.6.0-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-psych-5.0.1-180.amzn2023.0.3.x86_64
ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch
```

Complete!

[ec2-user@ip-172-31-6-178 ~]\$

Activate Windows
Go to Settings to activate Windows.

ec2-user@ip-172-31-6-178:~

```
Running scriptlet: ruby3.2-rubygem-bundler-2.4.10-180.amzn2023.0.3.noarch 10/10
Running scriptlet: ruby3.2-rubygem-rdoc-6.5.0-180.amzn2023.0.3.noarch 10/10
Running scriptlet: ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch 10/10
Running scriptlet: ruby3.2-3.2.2-180.amzn2023.0.3.x86_64 10/10
Running scriptlet: ruby3.2-3.2.2-180.amzn2023.0.3.x86_64 10/10
Verifying : ruby3.2-3.2.2-180.amzn2023.0.3.x86_64 1/10
Verifying : ruby3.2-default-gems-3.2.2-180.amzn2023.0.3.noarch 2/10
Verifying : ruby3.2-libs-3.2.2-180.amzn2023.0.3.x86_64 3/10
Verifying : ruby3.2-rubygem-bigdecimal-3.1.3-180.amzn2023.0.3.x86_64 4/10
Verifying : ruby3.2-rubygem-bundler-2.4.10-180.amzn2023.0.3.noarch 5/10
Verifying : ruby3.2-rubygem-io-console-0.6.0-180.amzn2023.0.3.x86_64 6/10
Verifying : ruby3.2-rubygem-json-2.6.3-180.amzn2023.0.3.x86_64 7/10
Verifying : ruby3.2-rubygem-psych-5.0.1-180.amzn2023.0.3.x86_64 8/10
Verifying : ruby3.2-rubygem-rdoc-6.5.0-180.amzn2023.0.3.noarch 9/10
Verifying : ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch 10/10
```

Installed:

```
ruby3.2-3.2.2-180.amzn2023.0.3.x86_64
ruby3.2-libs-3.2.2-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-bundler-2.4.10-180.amzn2023.0.3.noarch
ruby3.2-rubygem-json-2.6.3-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-rdoc-6.5.0-180.amzn2023.0.3.noarch
ruby3.2-default-gems-3.2.2-180.amzn2023.0.3.noarch
ruby3.2-rubygem-bigdecimal-3.1.3-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-io-console-0.6.0-180.amzn2023.0.3.x86_64
ruby3.2-rubygem-psych-5.0.1-180.amzn2023.0.3.x86_64
ruby3.2-rubygems-3.4.10-180.amzn2023.0.3.noarch
```

Complete!

[ec2-user@ip-172-31-6-178 ~]\$ sudo yum install -y wget

Last metadata expiration check: 0:02:02 ago on Thu Aug 22 11:41:13 2024.

Package wget-1.21.3-1.amzn2023.0.4.x86_64 is already installed.

Dependencies resolved.

Nothing to do.

Complete!

[ec2-user@ip-172-31-6-178 ~]\$ cd /home/ec2-user

[ec2-user@ip-172-31-6-178 ~]\$ wget https://bucket-name.s3.amazonaws.com/latest/install

--2024-08-22 11:43:34-- https://bucket-name.s3.amazonaws.com/latest/install

Resolving bucket-name.s3.amazonaws.com (bucket-name.s3.amazonaws.com)... 54.231.163.49, 54.231.172.81, 52.217.165.57, ...

Connecting to bucket-name.s3.amazonaws.com (bucket-name.s3.amazonaws.com)|54.231.163.49|:443... connected.

HTTP request sent, awaiting response... 403 Forbidden

2024-08-22 11:43:34 ERROR 403: Forbidden.

[ec2-user@ip-172-31-6-178 ~]\$ chmod +x ./install

chmod: cannot access './install': No such file or directory

[ec2-user@ip-172-31-6-178 ~]\$ sudo ./install auto

sudo: ./install: command not found

[ec2-user@ip-172-31-6-178 ~]\$ sudo service coddeploy-agent start

Redirecting to /bin/systemctl start coddeploy-agent.service

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17:14
22-08-2024

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NagAppBuildProject | CodeBuild

Create new pipeline | CodePipe

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

aws

Services

Search

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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

Review

Info

Step 5 of 5

Step 1: Choose pipeline settings

Pipeline settings

Pipeline name

NagNewAppPipeline

Pipeline type

V2

Execution mode

QUEUED

Artifact location

A new Amazon S3 bucket will be created as the default artifact store for your pipeline

Service role name

AWSCodePipelineServiceRole-us-east-1-NagNewAppPipeline

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NagAppBuildProject | CodeBuild

Create new pipeline | CodePipe

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

aws

Services

Search

[Alt+S]

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Variables

Name	Default value	Description
No variables		
No variables defined at the pipeline level in this pipeline.		

Step 2: Add source stage

Source action provider

Source action provider

GitHub (Version 2)

OutputArtifactFormat

CODE_ZIP

DetectChanges

false

ConnectionArn

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Windows Taskbar

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NagAppBuildProject | CodeBuild

Create new pipeline | CodePipe

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

aws

Services

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Exclude branches

-

Include file paths

-

Exclude file paths

-

Step 3: Add build stage

Build action provider

Build action provider

AWS CodeBuild

ProjectName

NagAppBuildProject

Step 4: Add deploy stage

Deploy action provider

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NagAppBuildProject | CodeBuild

Create new pipeline | CodePipe

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

aws

Services

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Nagesha KS

Step 4: Add deploy stage

Deploy action provider

Deploy action provider

AWS CodeDeploy

ApplicationName

NagAppDeployment

DeploymentGroupName

NagAppQADeploymentGroup

Configure automatic rollback on stage failure

Disabled

Cancel

Previous

Create pipeline

CloudShell

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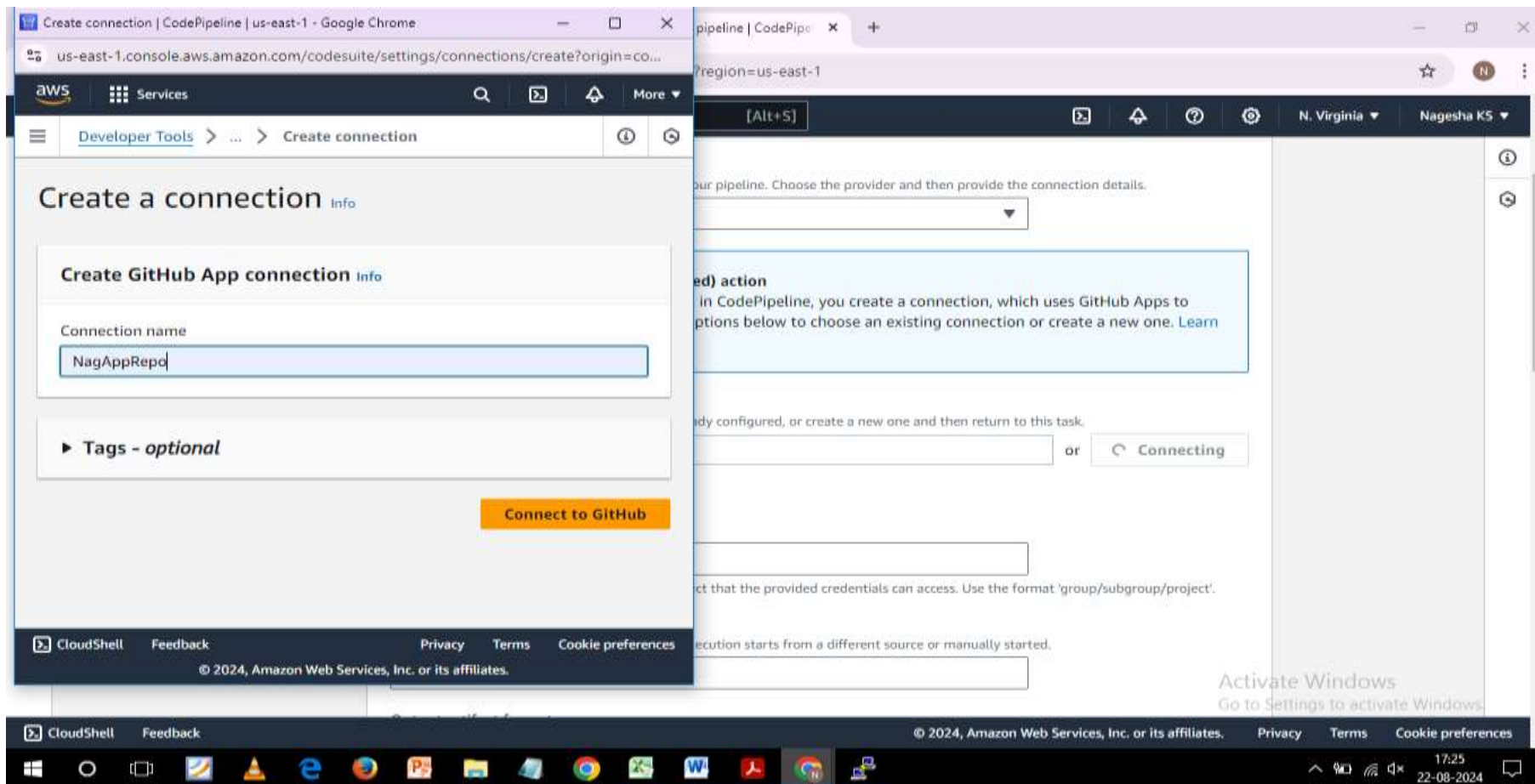
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22-08-2024



Developer Tools
CodePipeline

- Source • CodeCommit
- Artifacts • CodeArtifact
- Build • CodeBuild
- Deploy • CodeDeploy
- Pipeline • CodePipeline
 - Getting started
 - Pipelines
 - Pipeline
 - History
 - Settings
- Settings

Go to resource

Success
Congratulations! The pipeline NagAppPipeline has been created.

Create a notification rule for this pipeline

Developer Tools > CodePipeline > Pipelines > NagAppPipeline

NagAppPipeline

Notify

Edit

Stop execution

Clone pipeline

Release change

Pipeline type: V2 Execution mode: QUEUED

Source Failed

Retry stage

Retry failed actions

Pipeline execution ID: [53e13e12-7a87-4d60-a744-5ac2e0c91da3](#)

Source

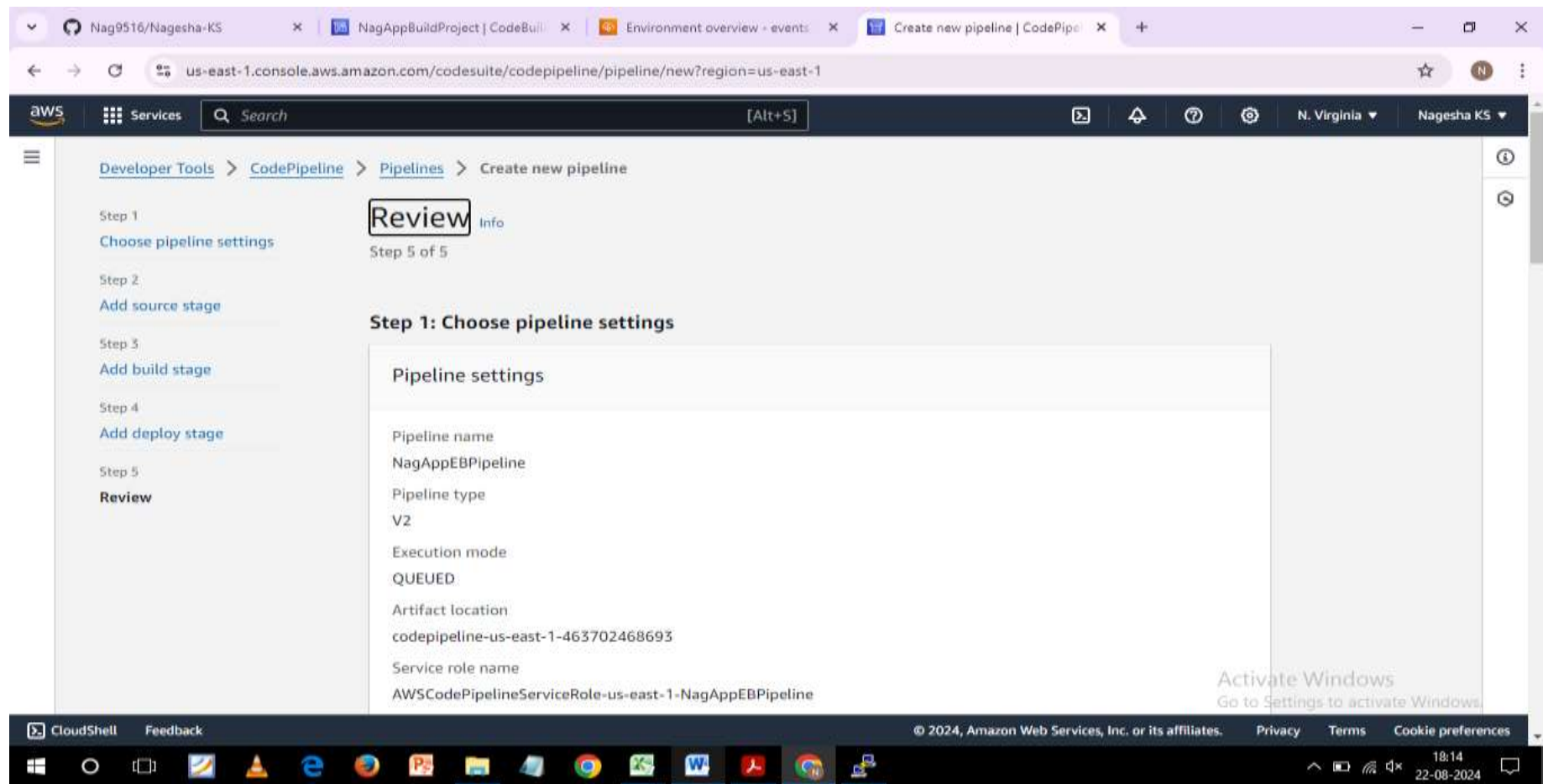
[AWS CodeCommit](#)

Failed - Just now

View details

Disable transition

Activate Windows
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NagAppBuildProject | CodeBuild

Environment overview - events

Create new pipeline | CodePipeline

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

aws

Services

Search

[Alt+S]

N. Virginia

Nagesha KS

Step 2: Add source stage

Source action provider

Source action provider

GitHub (Version 2)

OutputArtifactFormat

CODE_ZIP

DetectChanges

false

ConnectionArn

arn:aws:codeconnections:us-east-1:289436155303:connection/72a4bf9e-1dcb-453f-8702-2a5febae995f

FullRepositoryId

https://github.com/Nag9516/Nagesha-KS

Default branch

Nagesha-KS

Trigger configuration

Activate Windows

Go to Settings to activate Windows.

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NagAppBuildProject | CodeBuild

Environment overview - events

Create new pipeline | CodePipeline

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

aws

Services

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Trigger configuration

You can add additional pipeline triggers after the pipeline is created.

Trigger type

Specify filter

Event type

Push

Filter type

Branch

Include branches

-

Exclude branches

-

Include file paths

-

Exclude file paths

-

Step 3: Add build stage

Activate Windows
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NagAppBuildProject | CodeBuild

Environment overview - events

Create new pipeline | CodePipeline

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

aws

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Build stage

No build

Step 4: Add deploy stage

Deploy action provider

Deploy action provider

AWS Elastic Beanstalk

ApplicationName

NagAppEBApplication

EnvironmentName

NagAppEBApplication-env

Configure automatic rollback on stage failure

Disabled

Cancel

Previous

Create pipeline

CloudShell

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us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipelines/NagAppEBPipeline/view?region=us-east-1

aws Services Search [Alt+S]

Developer Tools CodePipeline

- Source • CodeCommit
- Artifacts • CodeArtifact
- Build • CodeBuild
- Deploy • CodeDeploy
- Pipeline • CodePipeline
 - Getting started
 - Pipelines
 - Pipeline**
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Success
Congratulations! The pipeline NagAppEBPipeline has been created.

Create a notification rule for this pipeline

Developer Tools > CodePipeline > Pipelines > NagAppEBPipeline

NagAppEBPipeline

Notify Edit Stop execution Clone pipeline Release change

Pipeline type: V2 Execution mode: QUEUED

Source In progress

Pipeline execution ID: [02894a5f-b2f9-4283-b58f-013cab3aaa86](#)

Source

In progress - Just now

View details

Disable transition

Activate Windows
Go to Settings to activate Windows.