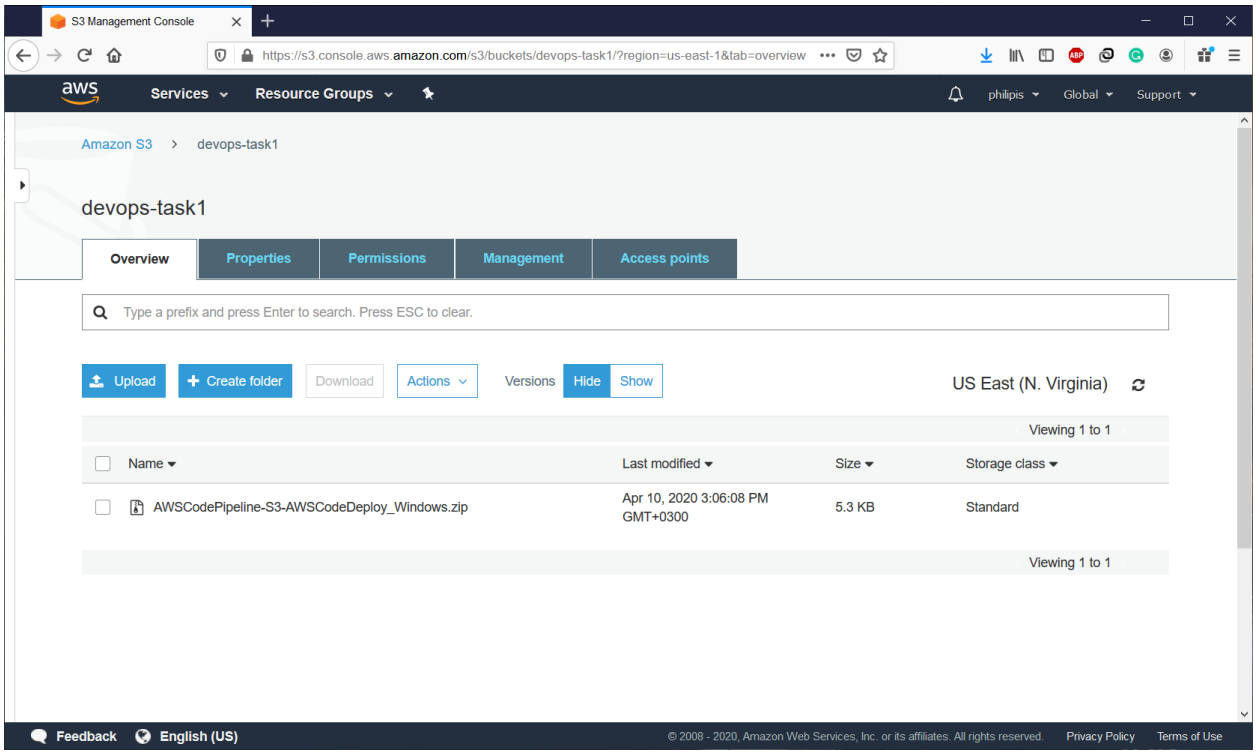
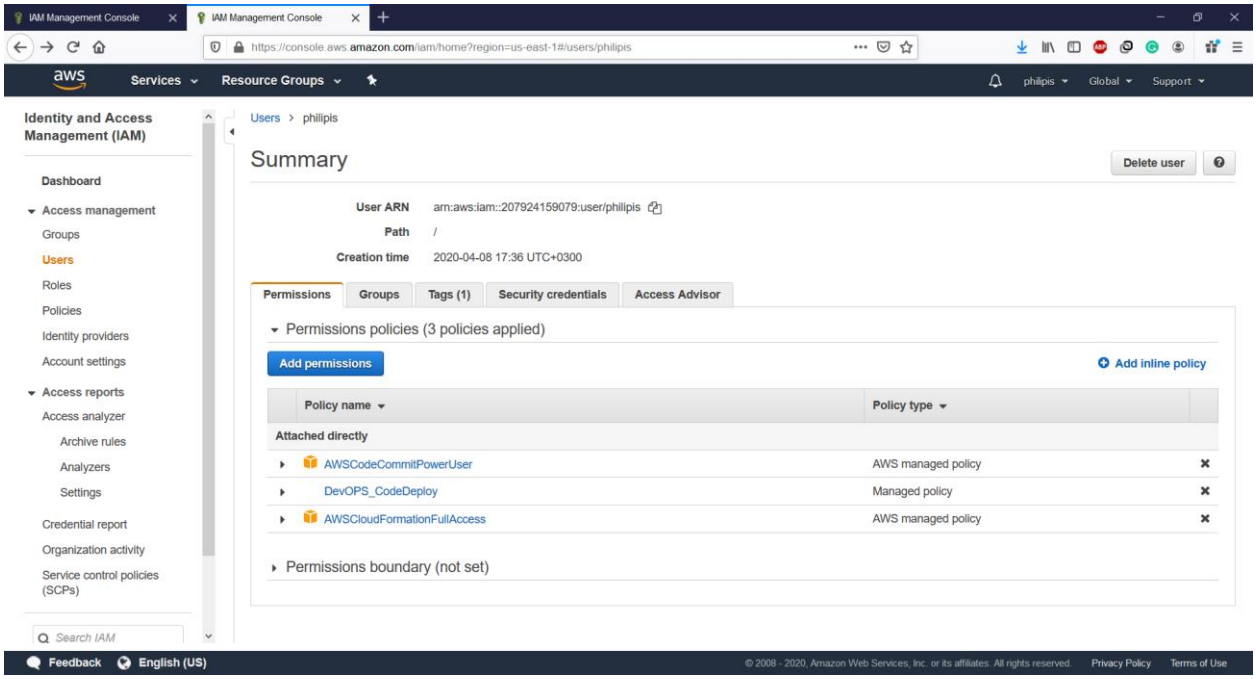
Starting to do https://docs.aws.amazon.com/codepipeline/latest/userguide/tutorials-simple-s3.html

1. Create an S3 Bucket devops-task1 and download the file AWSCodePipeline-S3-AWSCodeDeploy_Windows.zip

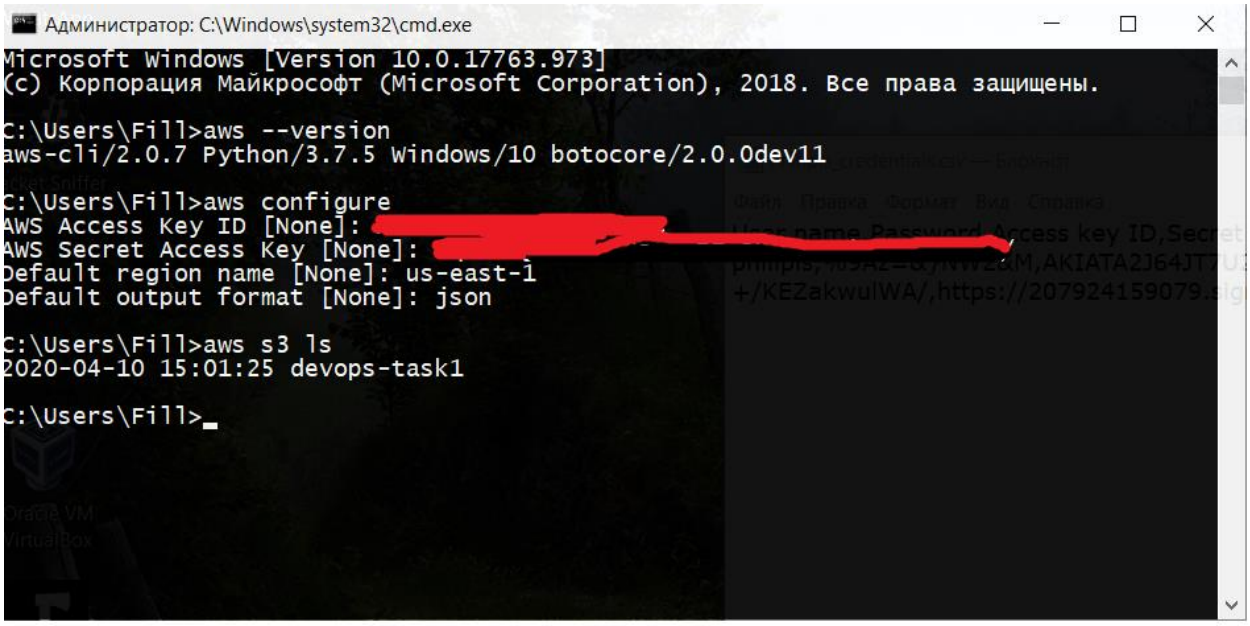


2. Create AIM User philipis and give him permission for CodeDeploy actions (https://docs.aws.amazon.com/codedeploy/latest/userguide/getting-started-provision-user.html)

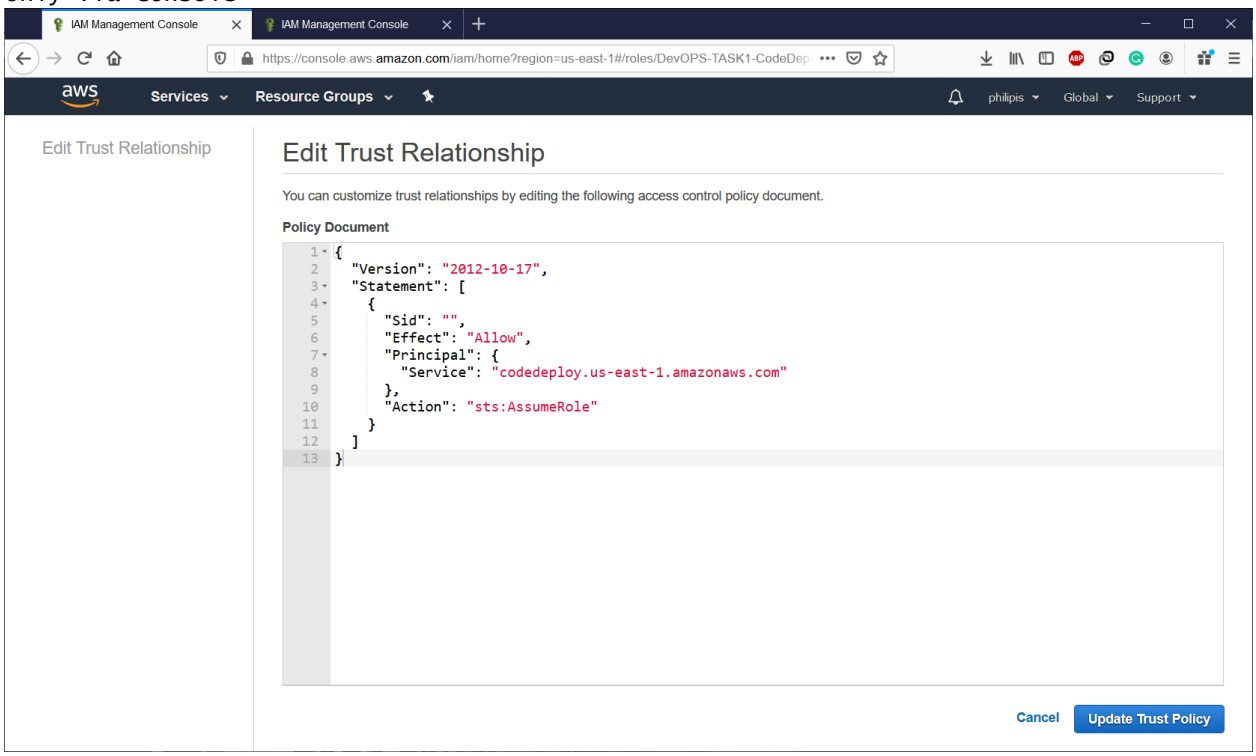


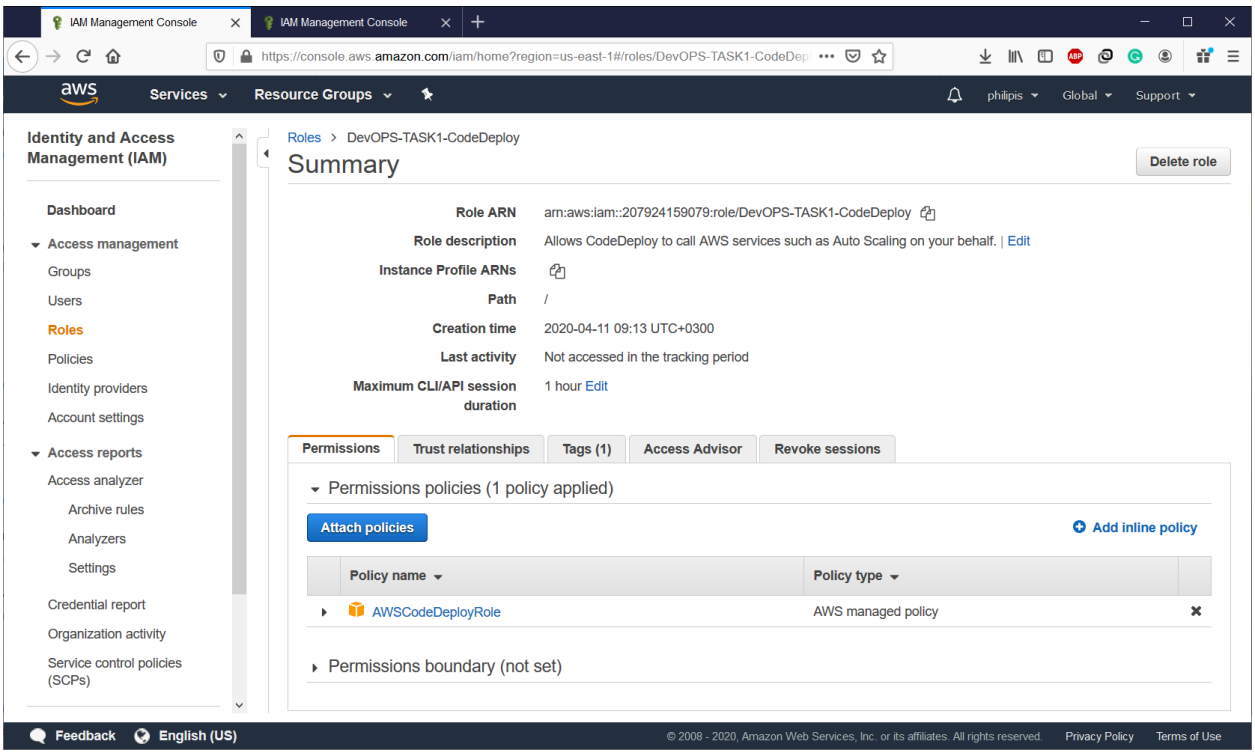
3. Create an IAM Instance Profile for Your Amazon EC2 Instances

   Install AWS CLI 2 for Win (https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2-windows.html) and configure it

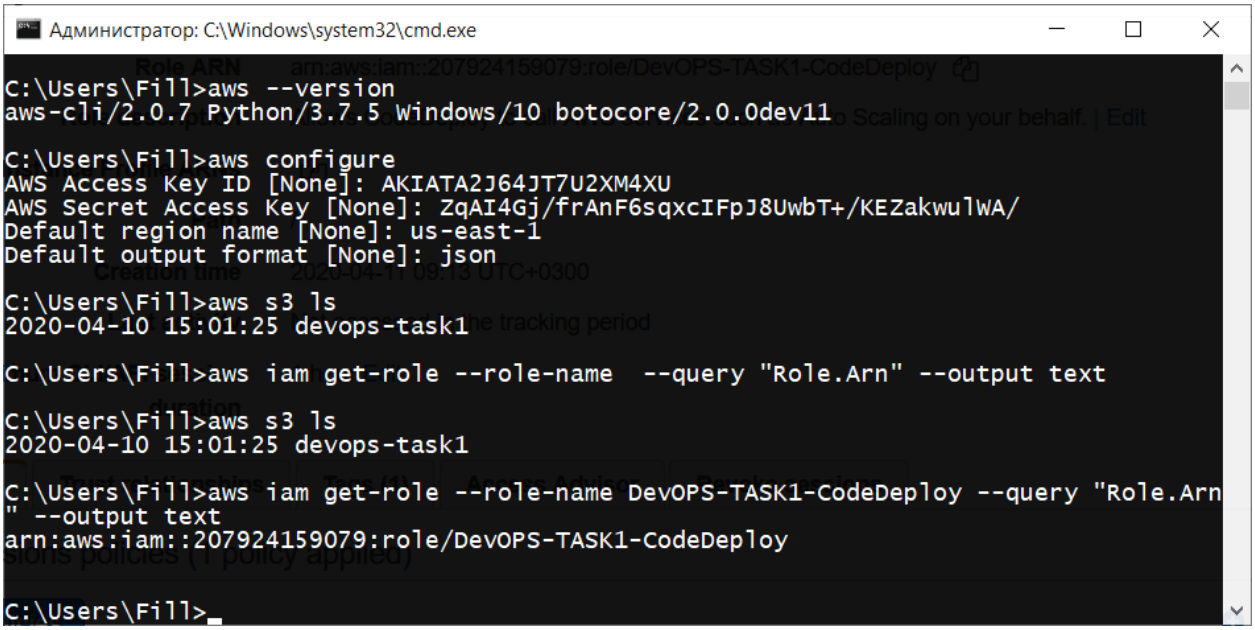


Create a Service Role for CodeDeploy and update Trust Relationship to us-east-1 region only via console

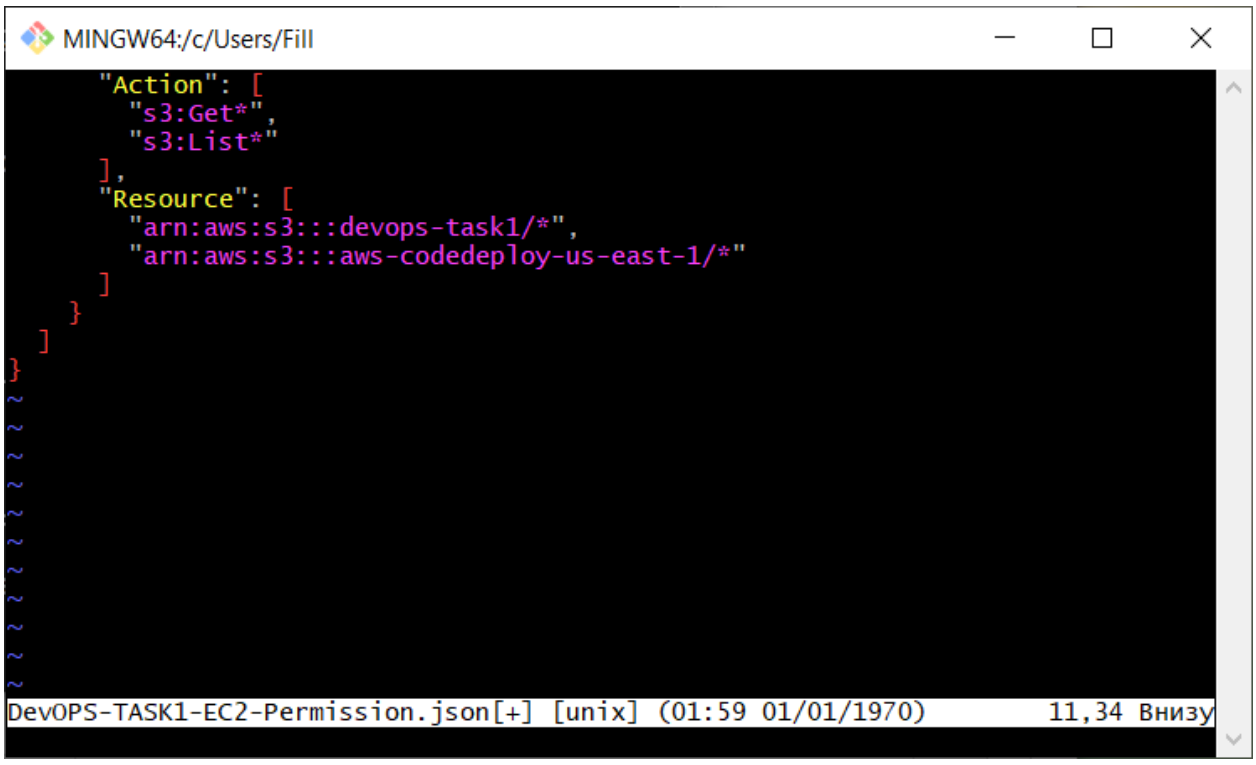


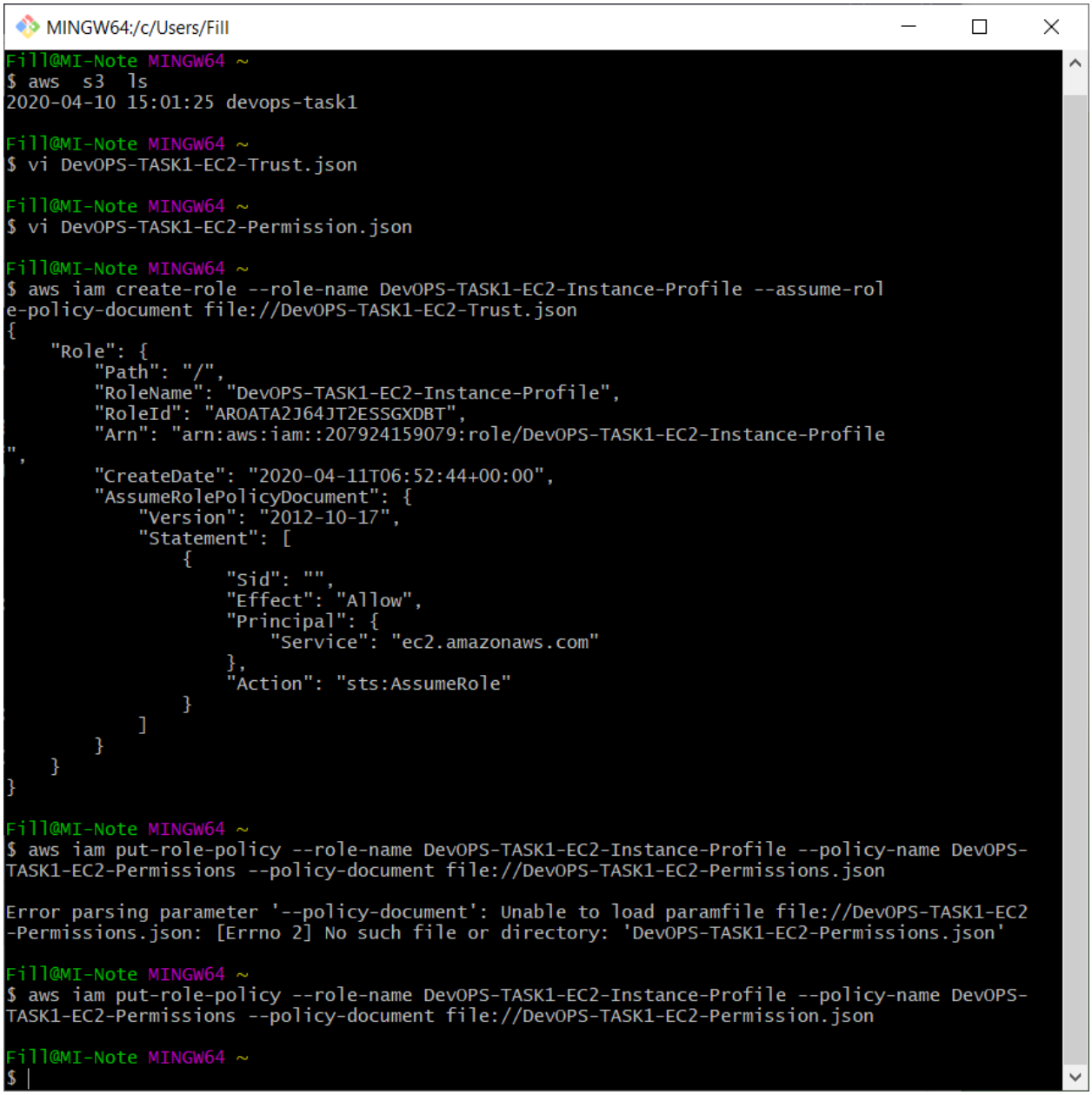


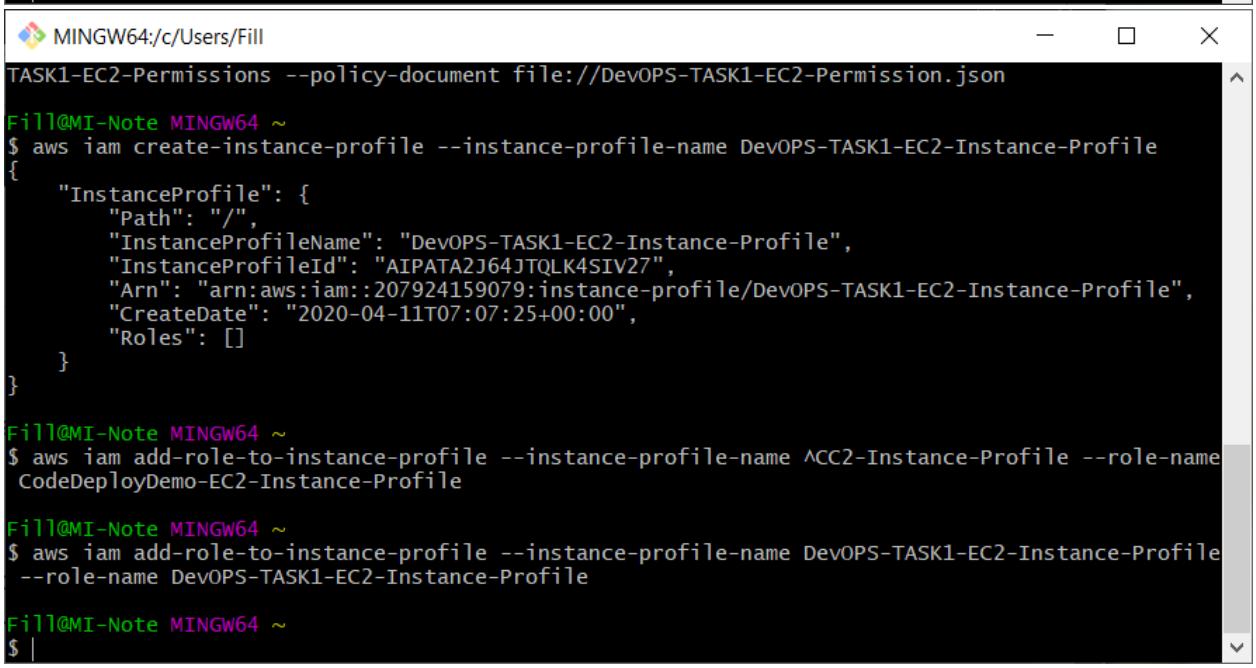
Role ARN: arn:aws:iam::207924159079:role/DevOPS-TASK1-CodeDeploy



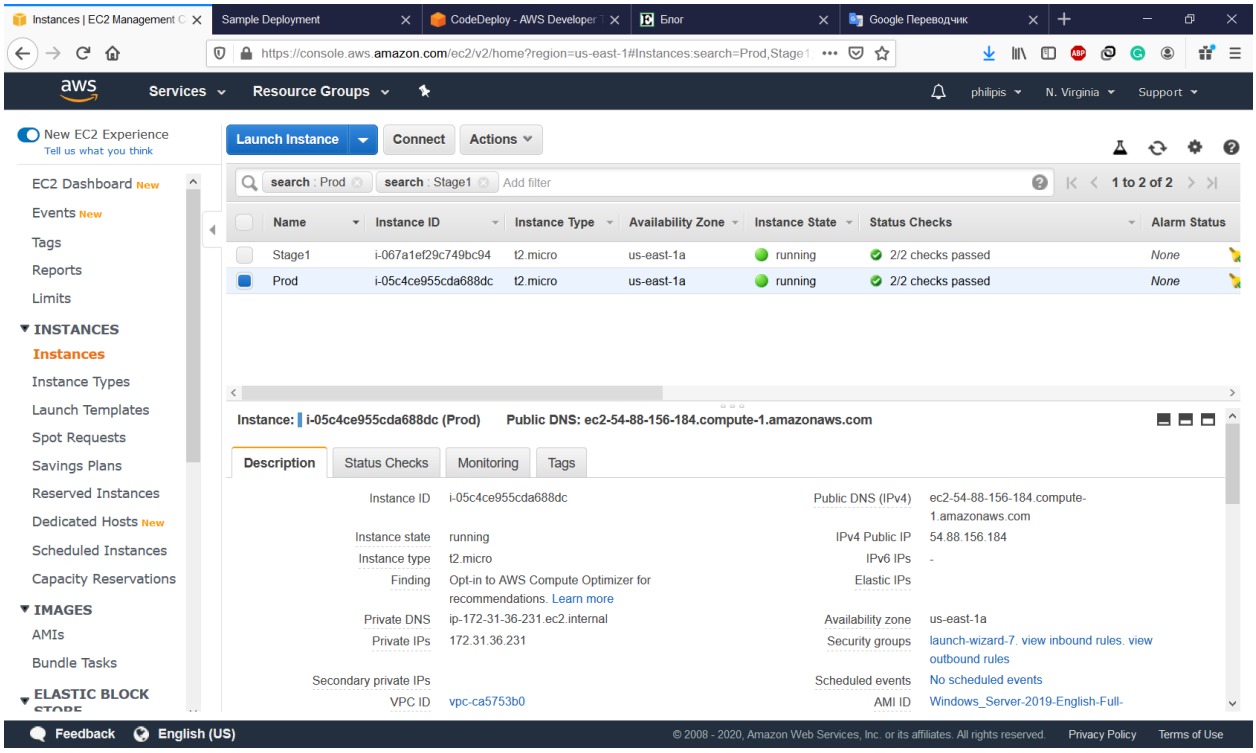
Create an IAM Instance Profile for Your Amazon EC2 Instances (CLI)


MINGW64:/c/Users/Fill
"Action": [
"s3:Get*",
"s3:List*"
],
"Resource": [
"arn:aws:s3:::devops-task1/*",
"arn:aws:s3:::aws-codedeploy-us-east-1/*"
]
}
]
}
DevOPS-TASK1-EC2-Permission.json[+] [unix] (01:59 01/01/1970) 11,34 Внизу

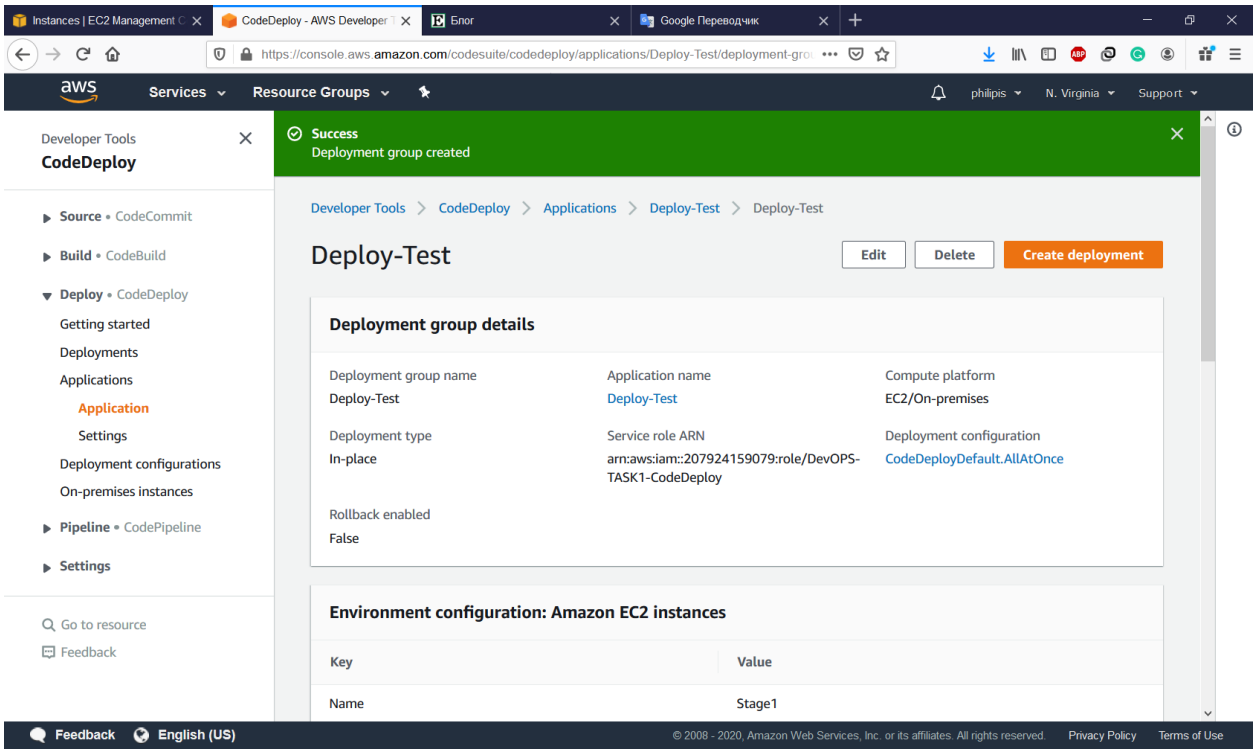

MINGW64:/c/Users/Fill
Fill@MI-Note MINGW64 ~
$ aws s3 ls
2020-04-10 15:01:25 devops-task1
Fill@MI-Note MINGW64 ~
$ vi DevOPS-TASK1-EC2-Trust.json
Fill@MI-Note MINGW64 ~
$ vi DevOPS-TASK1-EC2-Permission.json
Fill@MI-Note MINGW64 ~
$ aws iam create-role --role-name DevOPS-TASK1-EC2-Instance-Profile --assume-rol
e-policy-document file://DevOPS-TASK1-EC2-Trust.json
{
"Role": {
"Path": "/",
"RoleName": "DevOPS-TASK1-EC2-Instance-Profile",
"RoleId": "AROATA2J64JT2ESSGXDBT",
"Arn": "arn:aws:iam::207924159079:role/DevOPS-TASK1-EC2-Instance-Profile
",
"CreateDate": "2020-04-11T06:52:44+00:00",
"AssumeRolePolicyDocument": {
"Version": "2012-10-17",
"Statement": [
{
"Sid": "",
"Effect": "Allow",
"Principal": {
"Service": "ec2.amazonaws.com"
},
"Action": "sts:AssumeRole"
}
]
}
}
}
Fill@MI-Note MINGW64 ~
$ aws iam put-role-policy --role-name DevOPS-TASK1-EC2-Instance-Profile --policy-name DevOPS-
TASK1-EC2-Permissions --policy-document file://DevOPS-TASK1-EC2-Permissions.json
Error parsing parameter '--policy-document': Unable to load paramfile file://DevOPS-TASK1-EC2
-Permissions.json: [Errno 2] No such file or directory: 'DevOPS-TASK1-EC2-Permissions.json'
Fill@MI-Note MINGW64 ~
$ aws iam put-role-policy --role-name DevOPS-TASK1-EC2-Instance-Profile --policy-name DevOPS-
TASK1-EC2-Permissions --policy-document file://DevOPS-TASK1-EC2-Permission.json
Fill@MI-Note MINGW64 ~
$


MINGW64:/c/Users/Fill
TASK1-EC2-Permissions --policy-document file://DevOPS-TASK1-EC2-Permission.json
Fill@MI-Note MINGW64 ~
$ aws iam create-instance-profile --instance-profile-name DevOPS-TASK1-EC2-Instance-Profile
{
"InstanceProfile": {
"Path": "/",
"InstanceProfileName": "DevOPS-TASK1-EC2-Instance-Profile",
"InstanceProfileId": "AIPATA2J64JTQLK4SIV27",
"Arn": "arn:aws:iam::207924159079:instance-profile/DevOPS-TASK1-EC2-Instance-Profile",
"CreateDate": "2020-04-11T07:07:25+00:00",
"Roles": []
}
}
Fill@MI-Note MINGW64 ~
$ aws iam add-role-to-instance-profile --instance-profile-name ^CC2-Instance-Profile --role-name
CodeDeployDemo-EC2-Instance-Profile
Fill@MI-Note MINGW64 ~
$ aws iam add-role-to-instance-profile --instance-profile-name DevOPS-TASK1-EC2-Instance-Profile
--role-name DevOPS-TASK1-EC2-Instance-Profile
Fill@MI-Note MINGW64 ~
$

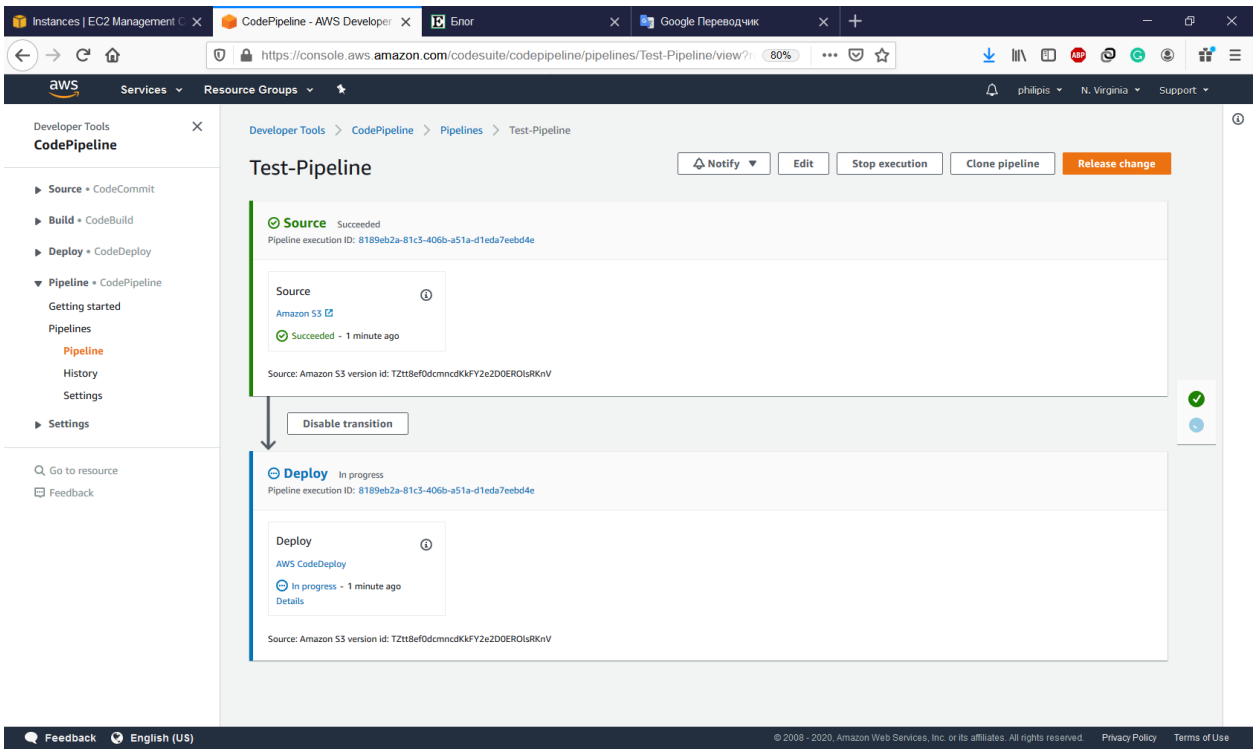
4. Create 2 EC2 instance with tag Names Stage1 and Prod And waiting for running and checks status changes



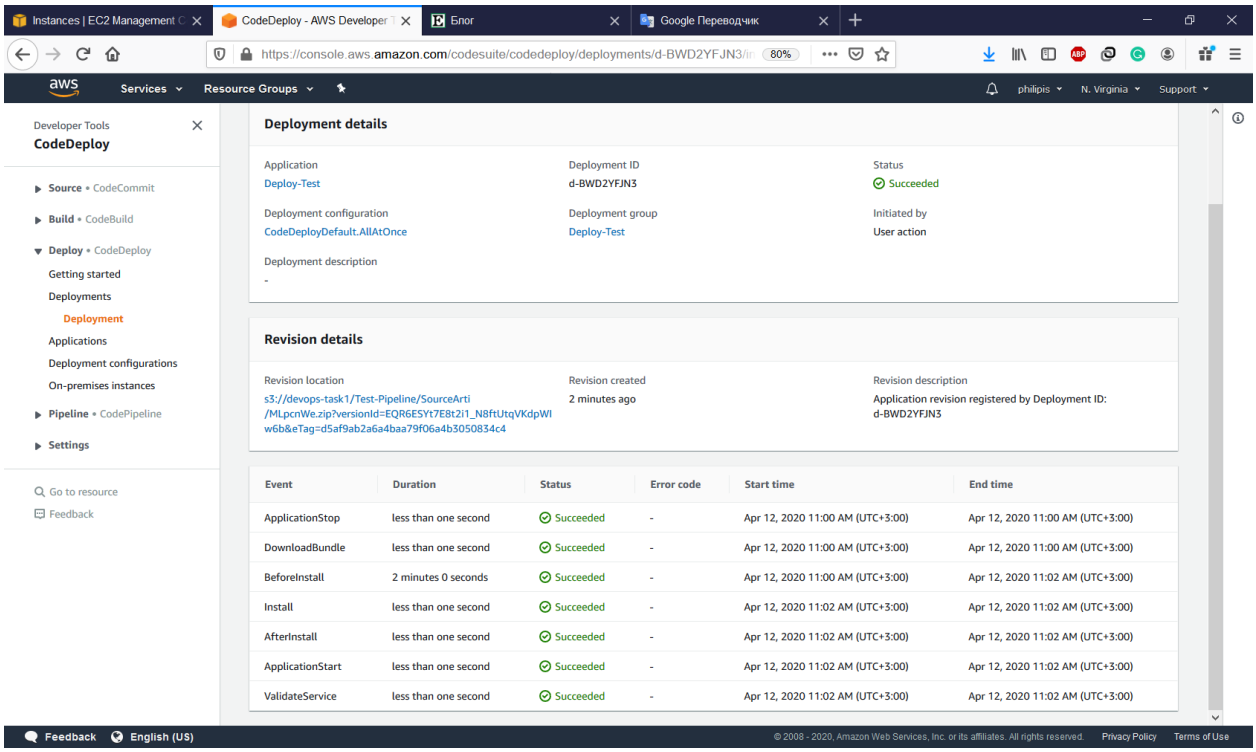
5. Create “Deploy-Test” Application in CodeDeploy with deployment group tag Name: Stage1



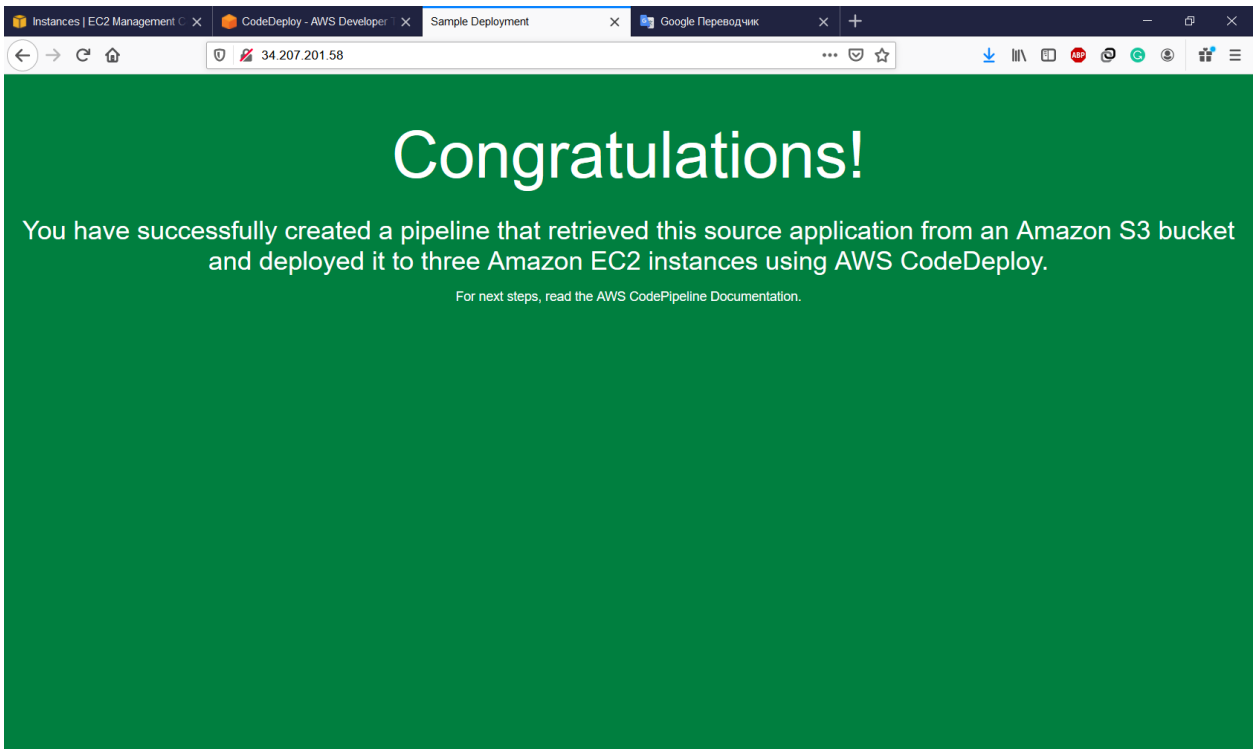
6. Create Pipeline Test-Pipeline and waiting for status Source and Deploy changes



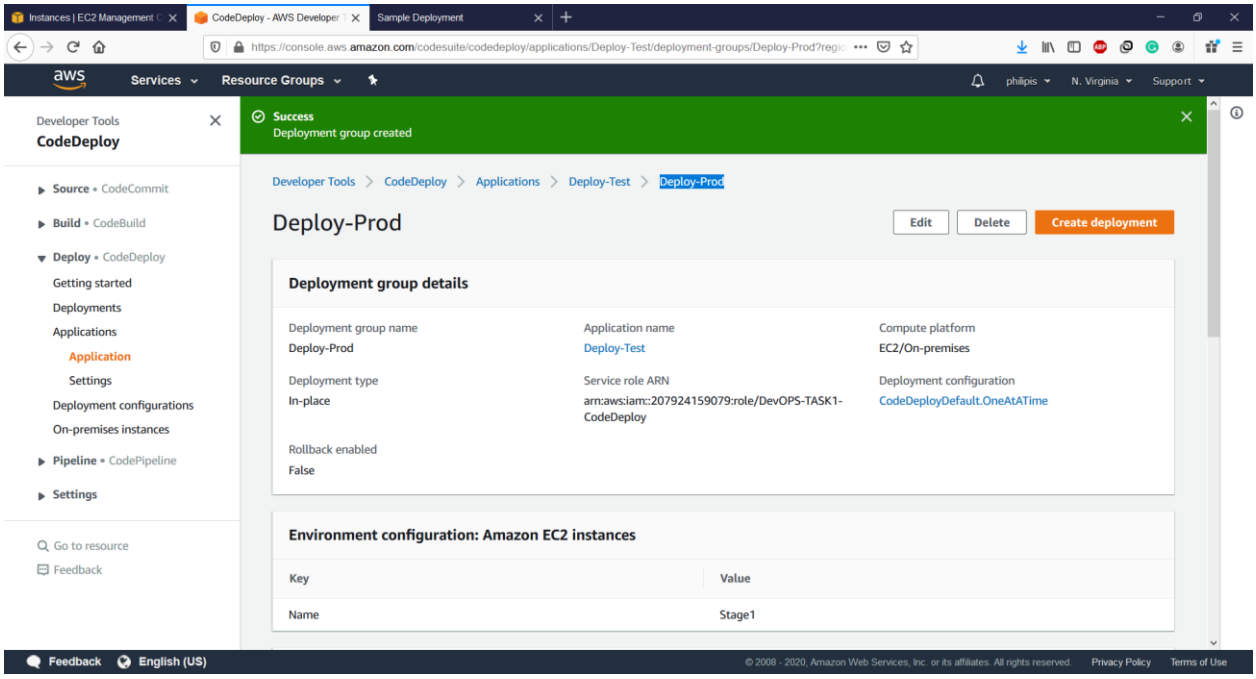
Check details of deploy progress



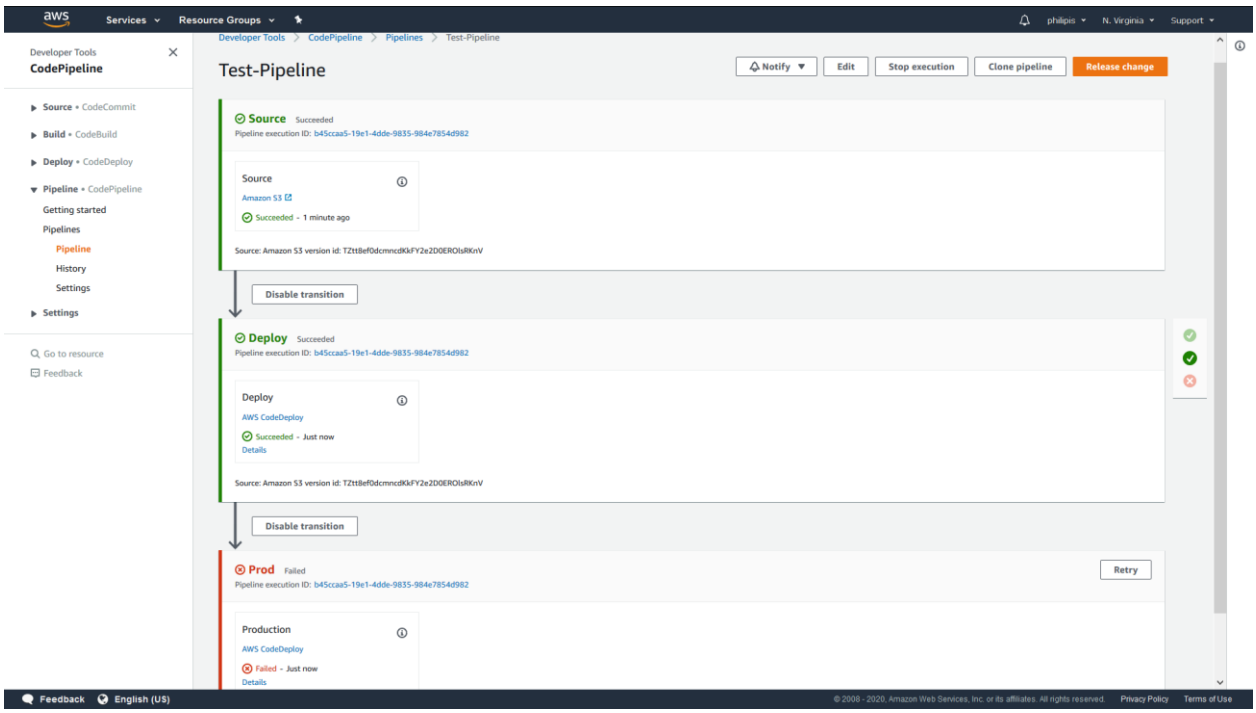
And the result



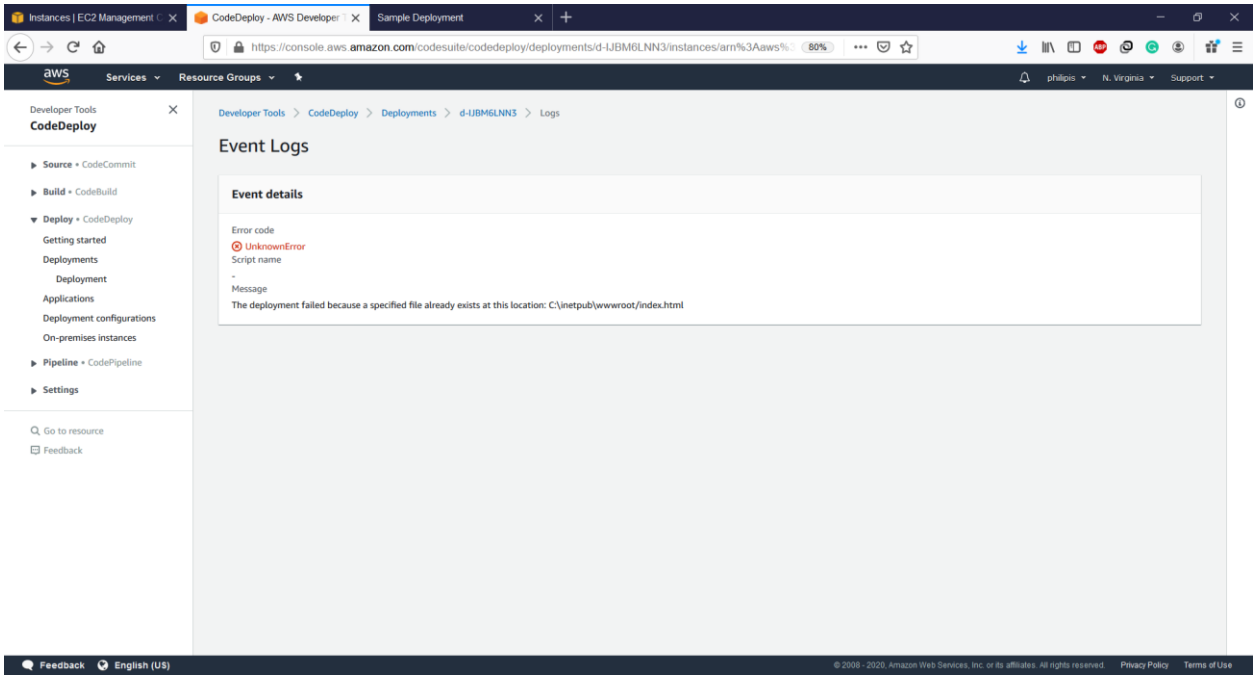
7. Add “Deploy-Prod” deployment group with same tags for EC2 Instances



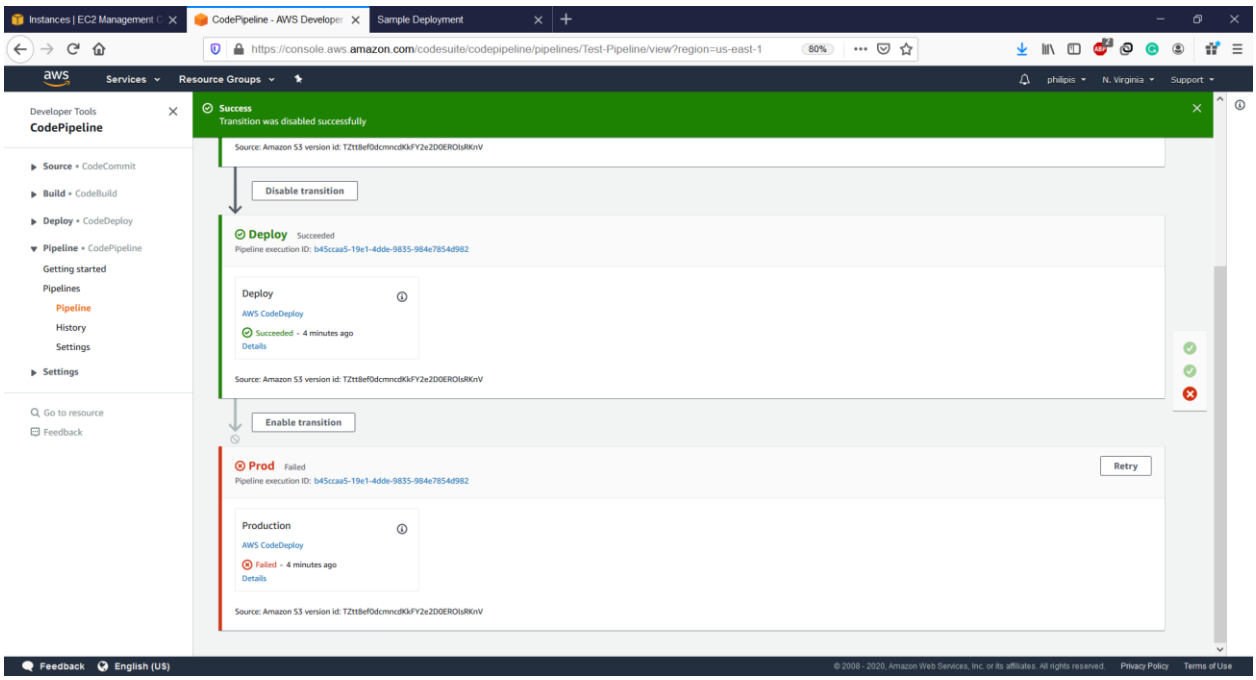
8. Add “Prod” Stage to Pipeline with the Deploy-Prod Deployment group and choice Release-Change to initialize new deploy



See details of failure for Prod :



9. Disable transitions Between Stages in CodePipeline and upload the file to S3 again to start new deploy and verify that Prod Stage did not update because of disable transaction


Instances | EC2 Management
CodePipeline - AWS Developer
Sample Deployment
https://console.aws.amazon.com/codesuite/codepipeline/pipelines/Test-Pipeline/view?region=us-east-1
Services
Resource Groups
philipis
N. Virginia
Support
Developer Tools
CodePipeline
Source • CodeCommit
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback
Success
Transition was disabled successfully
Source: Amazon S3 version id: TZtt8ef0dcmncdKkFY2e2D0EROIsRKnV
Disable transition
Deploy Succeeded
Pipeline execution ID: b45ccaa5-19e1-4dde-9835-984e7854d982
Deploy
AWS CodeDeploy
Succeeded - 4 minutes ago
Details
Source: Amazon S3 version id: TZtt8ef0dcmncdKkFY2e2D0EROIsRKnV
Enable transition
Prod Failed
Pipeline execution ID: b45ccaa5-19e1-4dde-9835-984e7854d982
Retry
Production
AWS CodeDeploy
Failed - 4 minutes ago
Details
Source: Amazon S3 version id: TZtt8ef0dcmncdKkFY2e2D0EROIsRKnV
Feedback
English (US)
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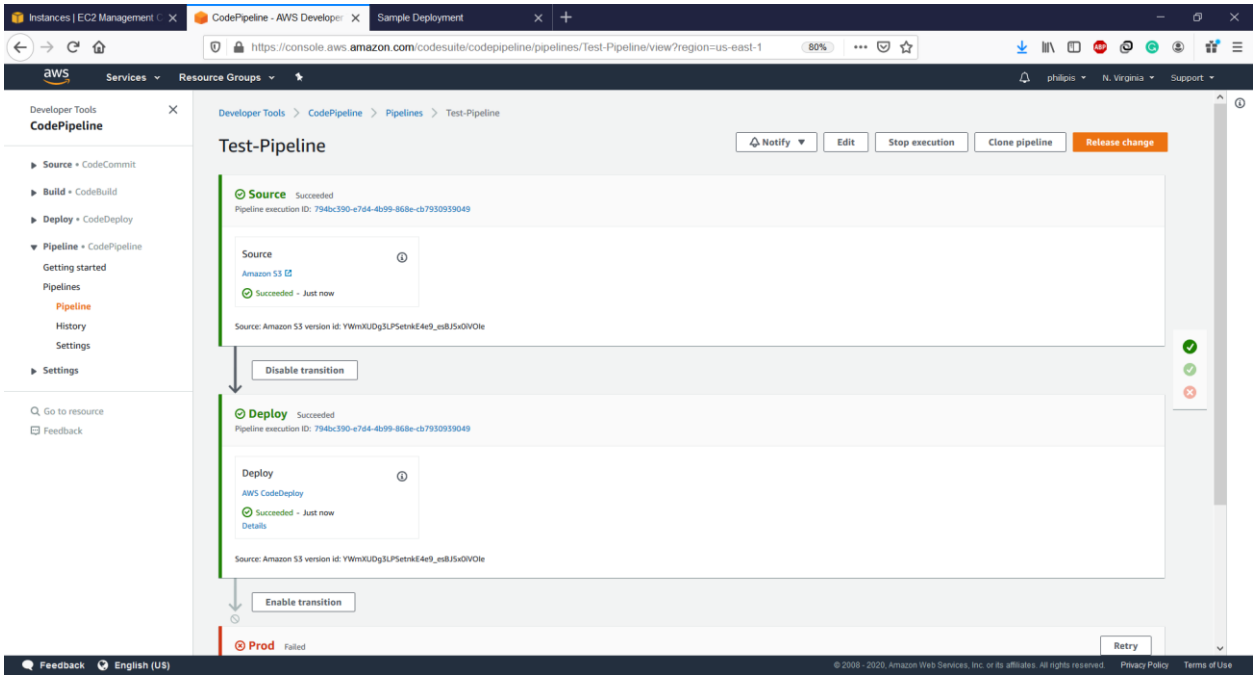
Terms of Use


Instances | EC2 Management
CodePipeline - AWS Developer
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https://console.aws.amazon.com/codesuite/codepipeline/pipelines/Test-Pipeline/view?region=us-east-1
Services
Resource Groups
philipis
N. Virginia
Support
Developer Tools
CodePipeline
Source • CodeCommit
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback
Developer Tools > CodePipeline > Pipelines > Test-Pipeline
Test-Pipeline
Notify
Edit
Stop execution
Clone pipeline
Release change
Source Succeeded
Pipeline execution ID: 794bc390-e7d4-4b99-868e-cb7930939049
Source
Amazon S3
Succeeded - Just now
Source: Amazon S3 version id: YWmXUDg3LP5etnkE4e9_esBJSxOiVOIe
Disable transition
Deploy Succeeded
Pipeline execution ID: 794bc390-e7d4-4b99-868e-cb7930939049
Deploy
AWS CodeDeploy
Succeeded - Just now
Details
Source: Amazon S3 version id: YWmXUDg3LP5etnkE4e9_esBJSxOiVOIe
Enable transition
Prod Failed
Retry
Feedback
English (US)
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Privacy Policy
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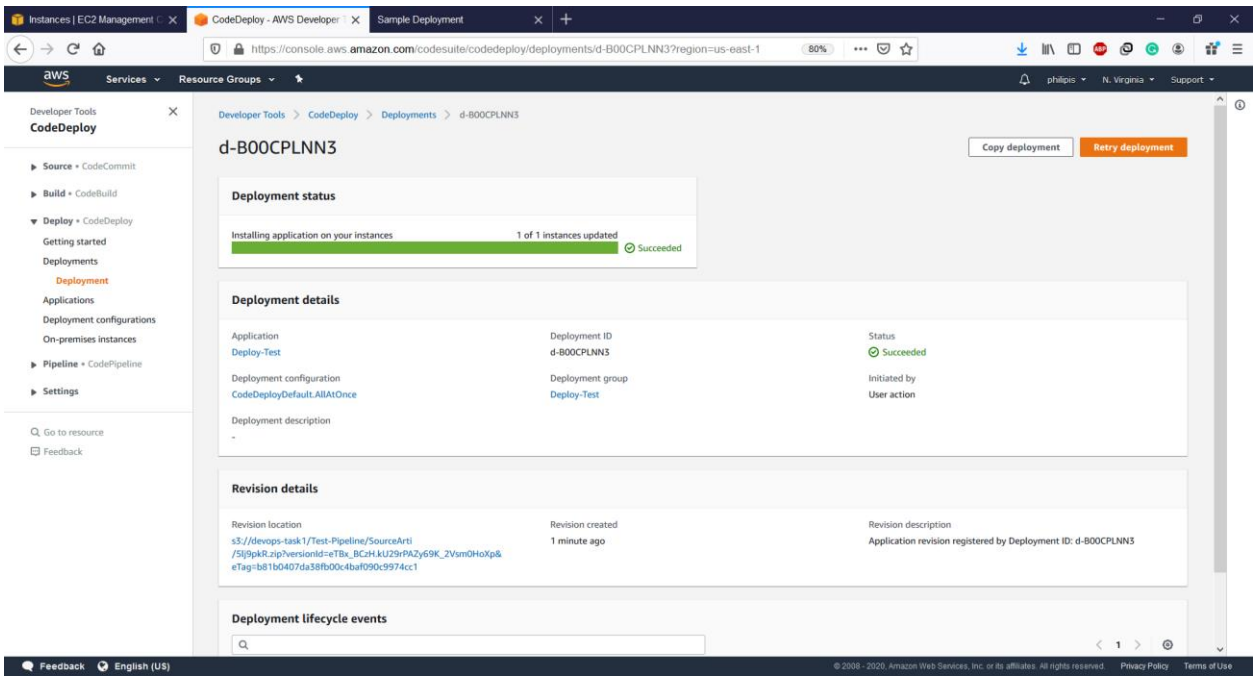
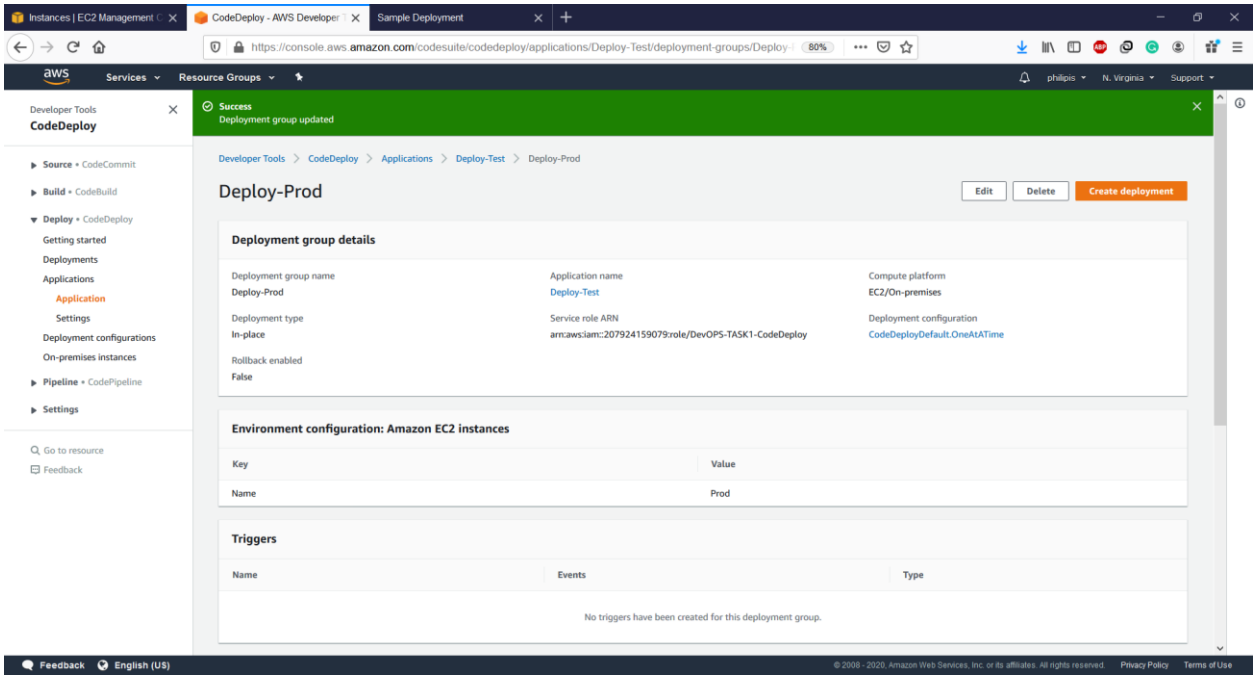
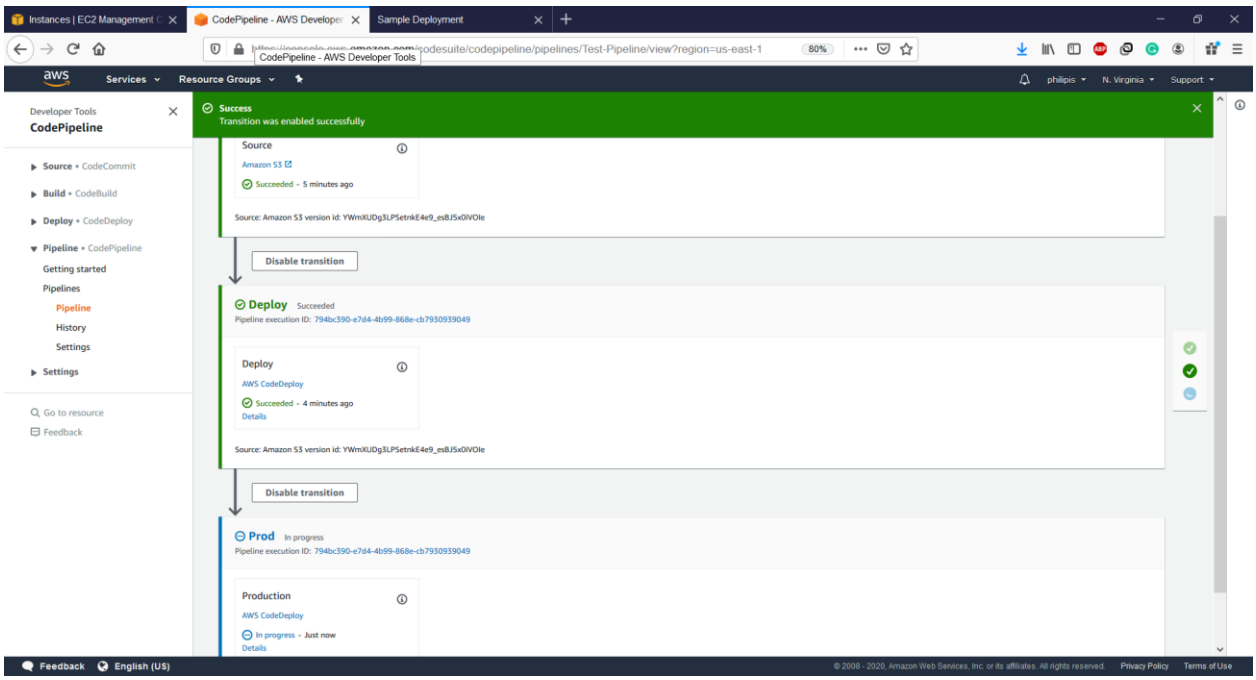
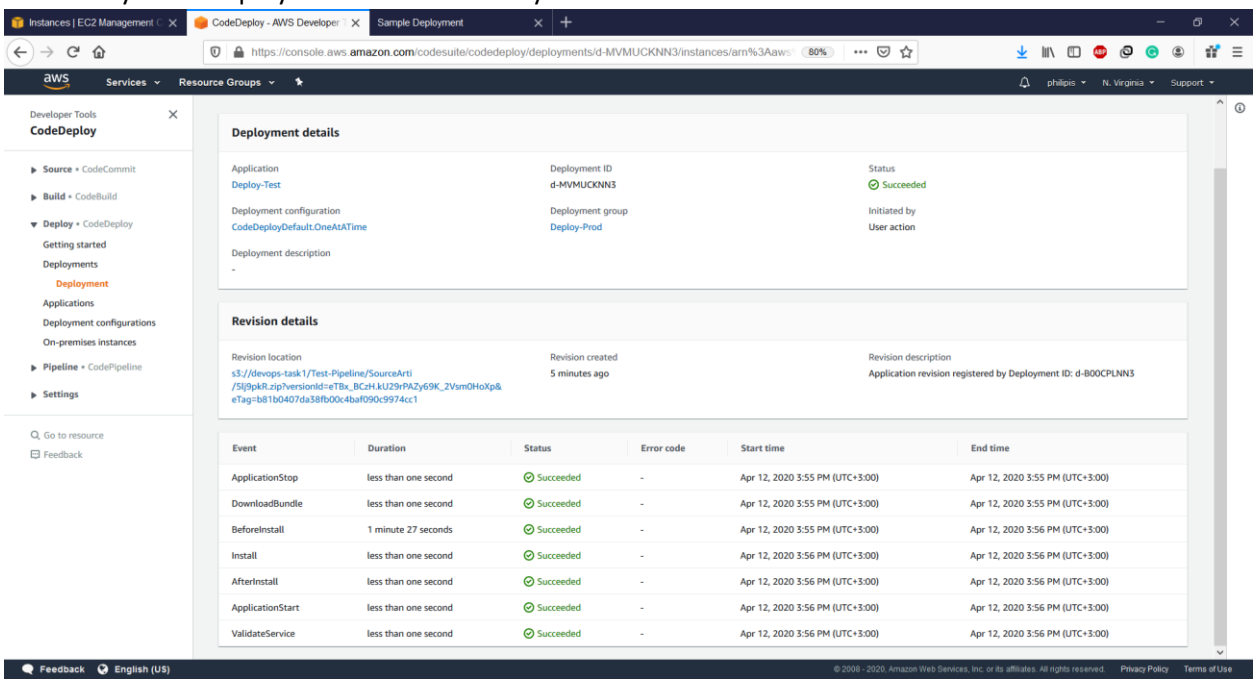


10. Modify the Deploy-Prod Deployment group and use another instance with tag Name:Prod and enable Transaction.

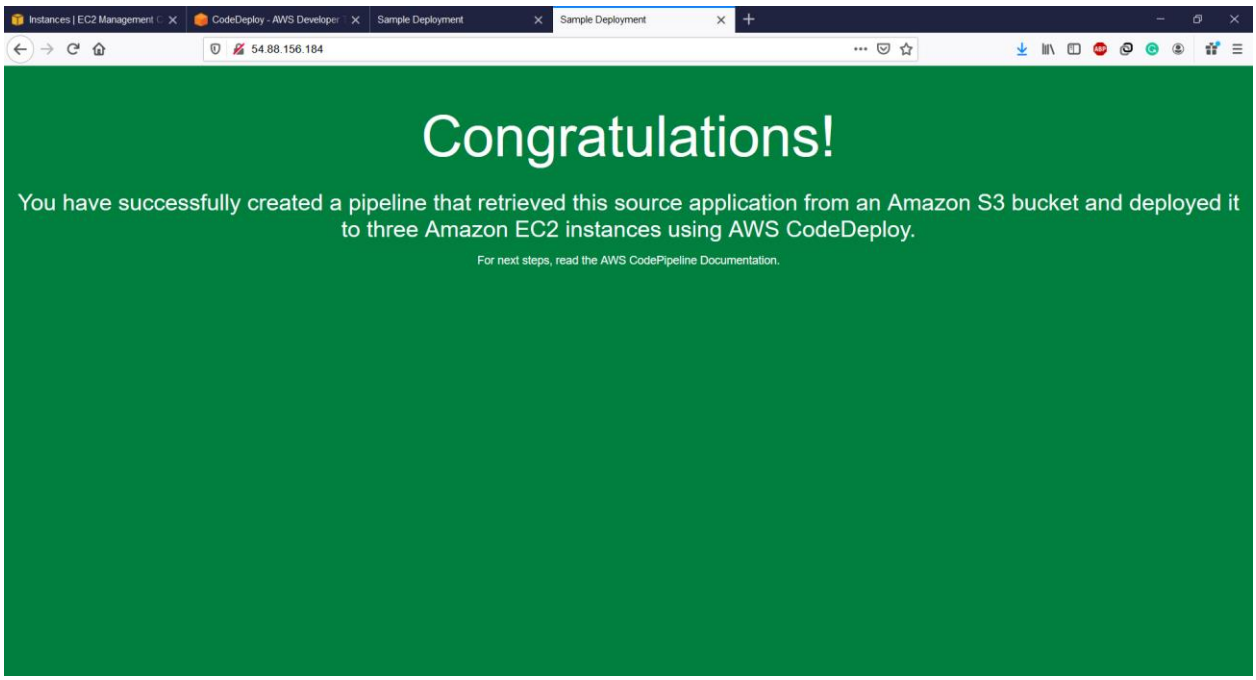




And verify that deploy finished successfully for another instance



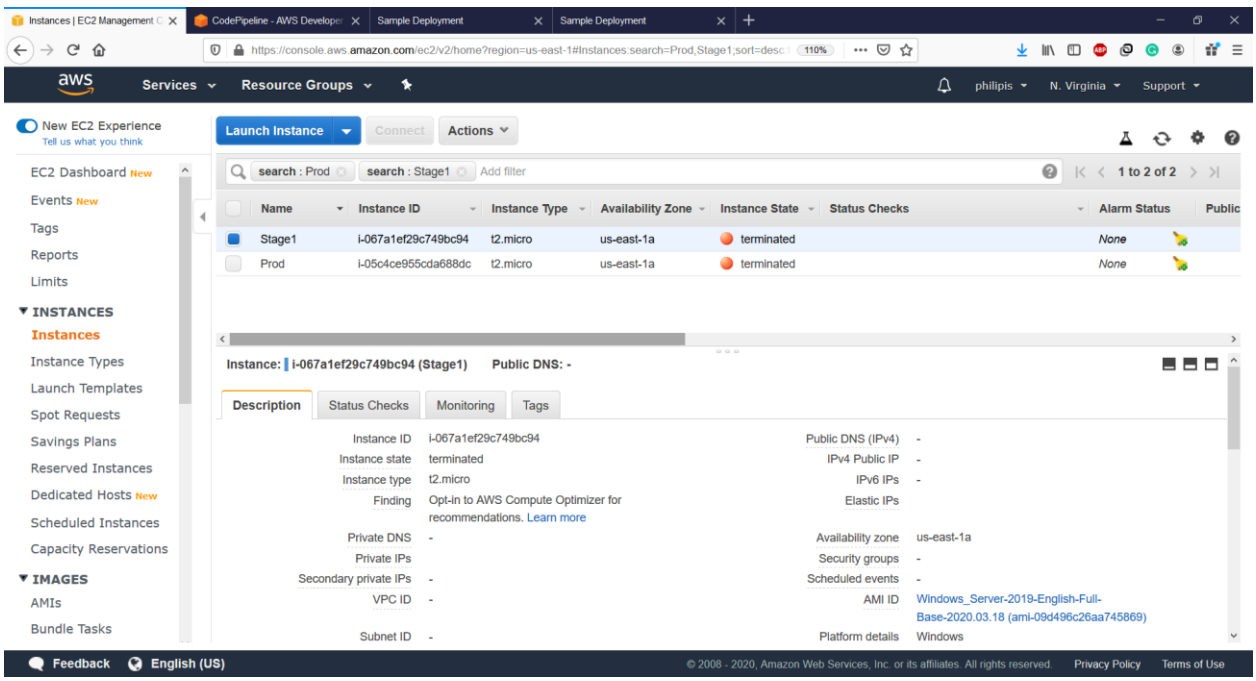
Check web on Prod Instance



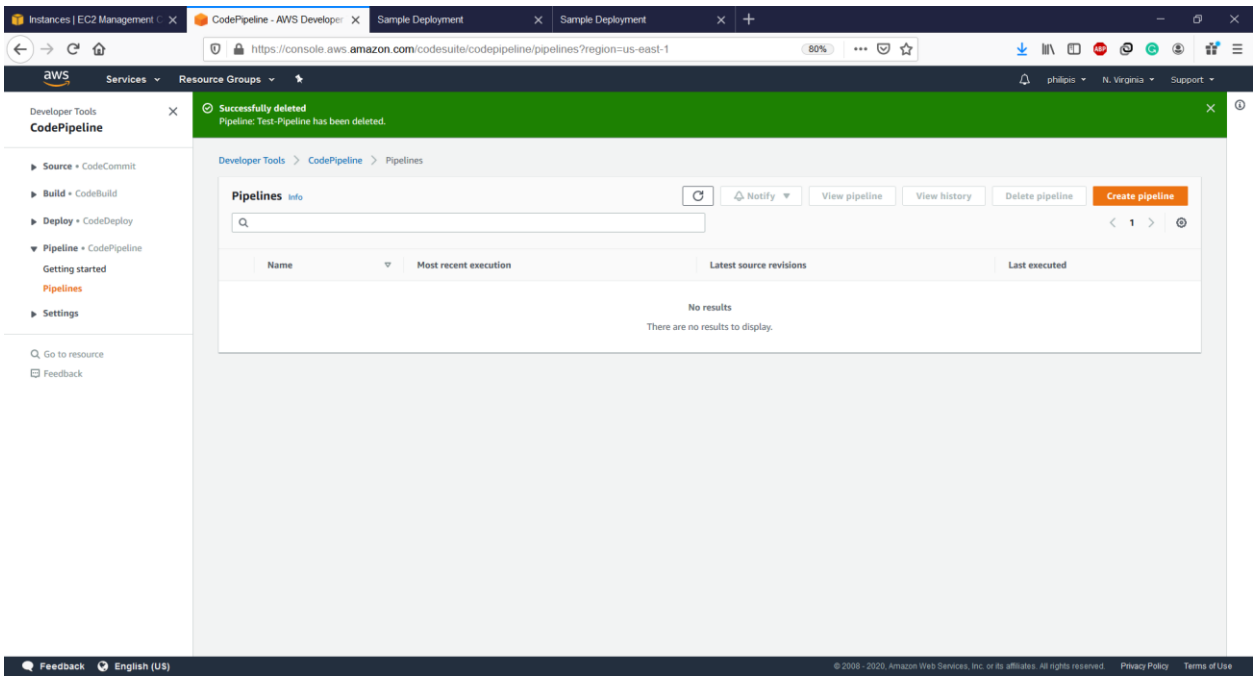
Done. It's works :)

DELETED ALL AWS Recourses (created during the task) and terminate EC2 Instances.

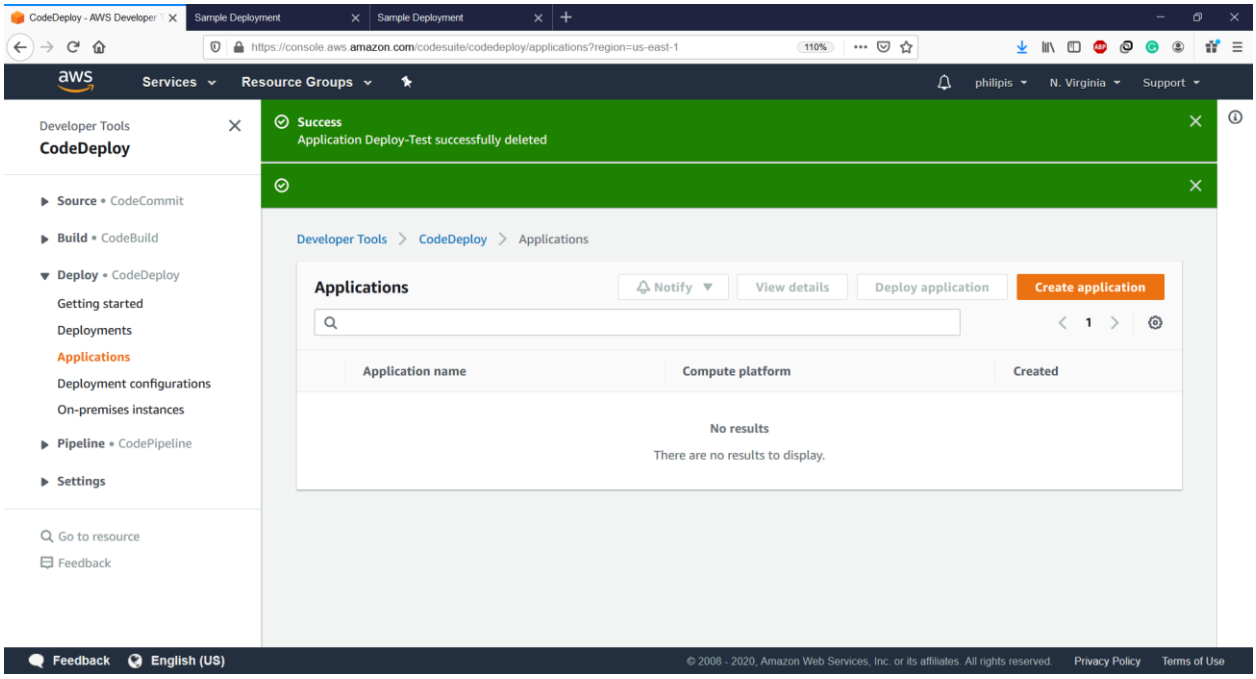
Terminate EC instance



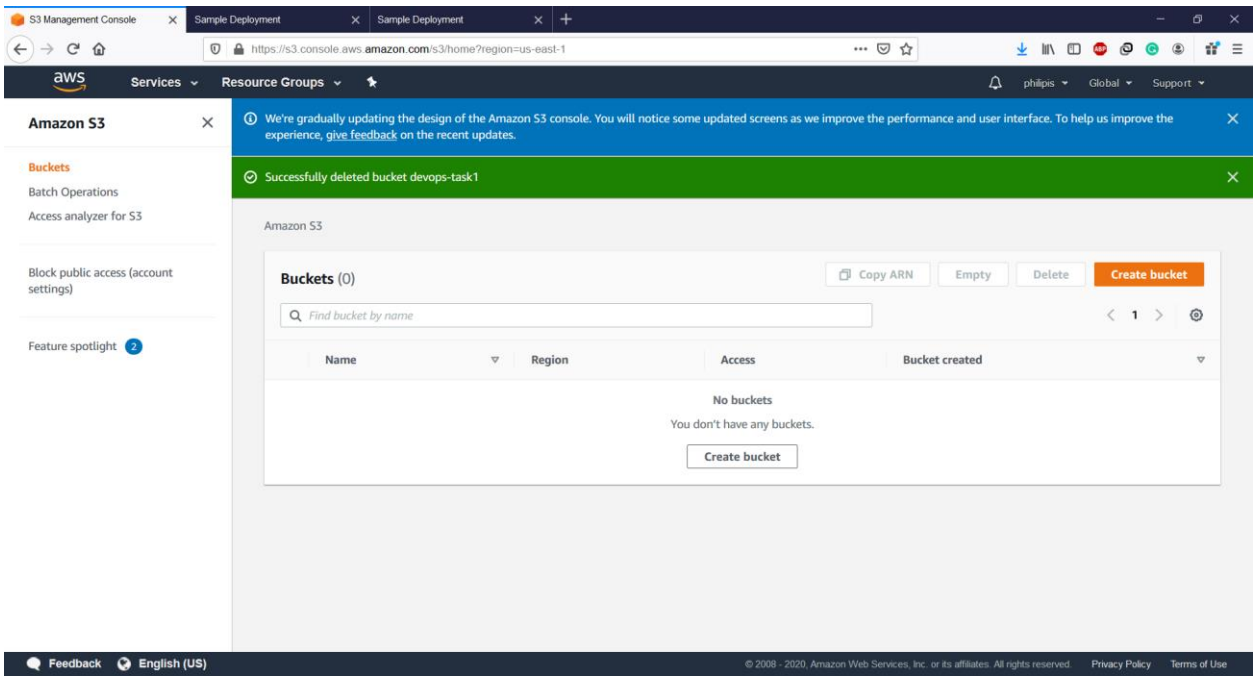
Delete Pipeline



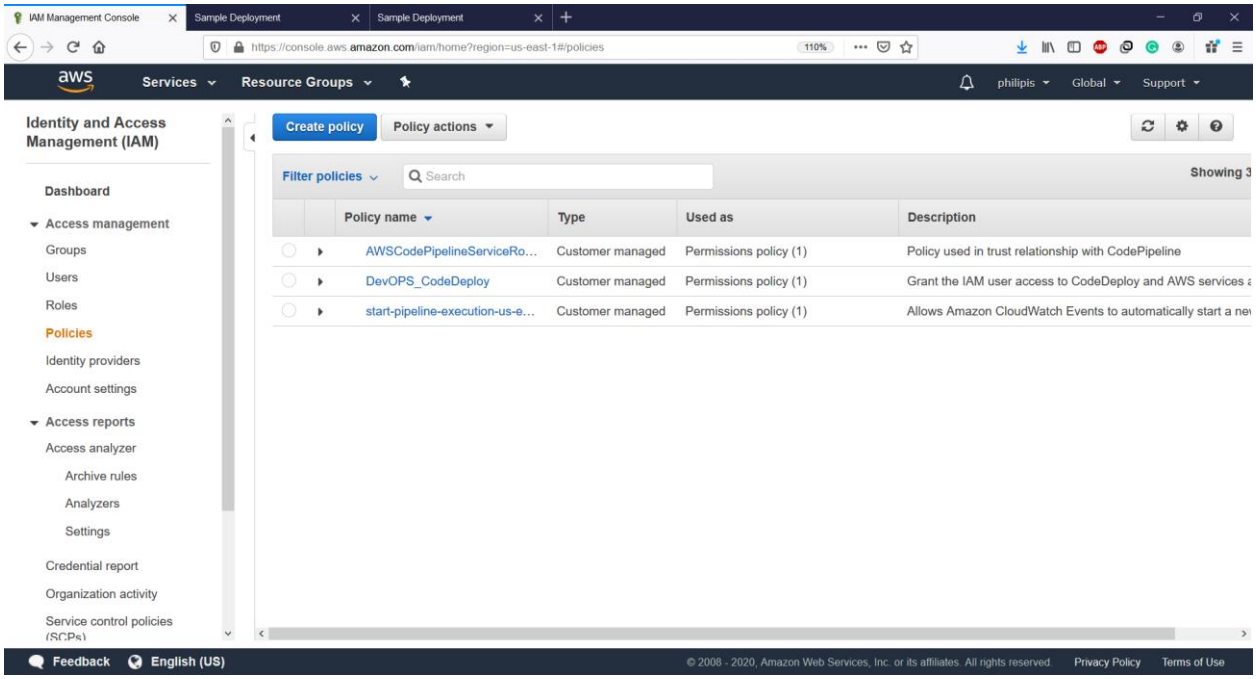
Delete Deployment groups and deploy application



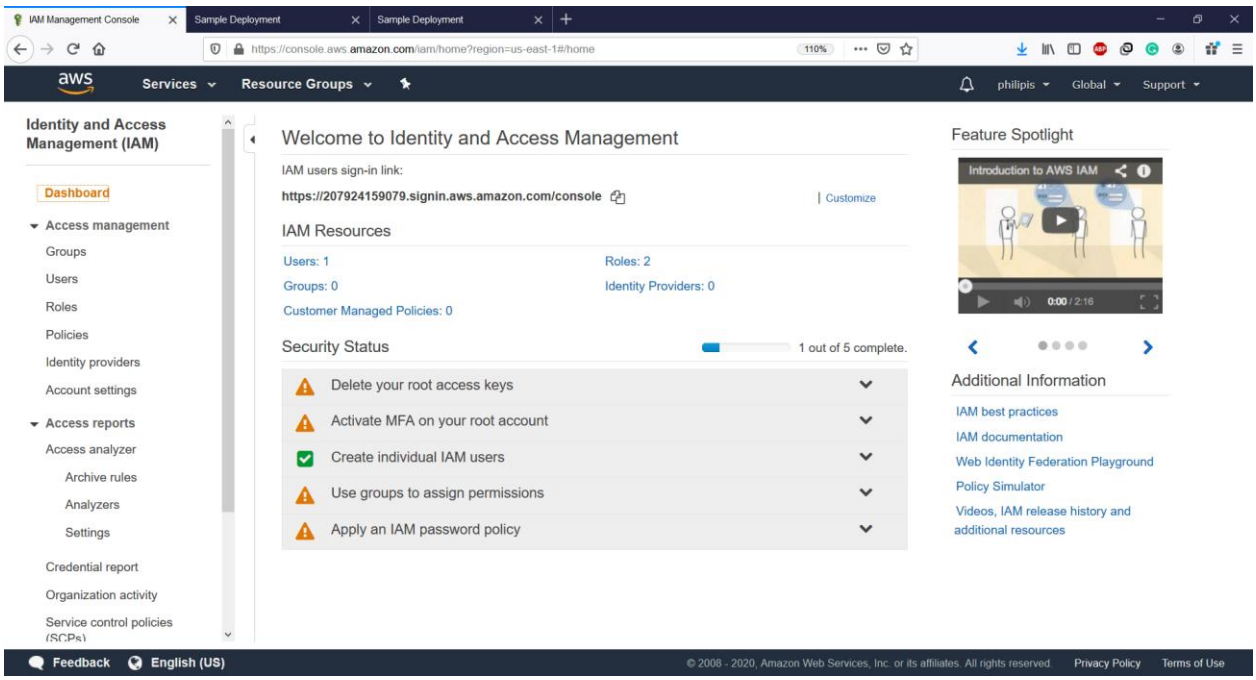
Delete S3 Bucket devops-task1



Delete AIM custom Policies:



Delete AIM Roles:



AIM user philipis I decided to keep for future projects.))