Microsoft Azure Mini Project

Group Members:-

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Nikhil Satish Sahu

Microsoft

Future Ready Talent

Internship

Title: “Efficient CI/CD Pipeline for Azure Web App Deployment.”

Overview:

The project focuses on solving the problem of manual and error-prone deployment processes for web applications on the Azure platform. It addresses the need for a streamlined, efficient, and reliable deployment workflow.

Core Features:

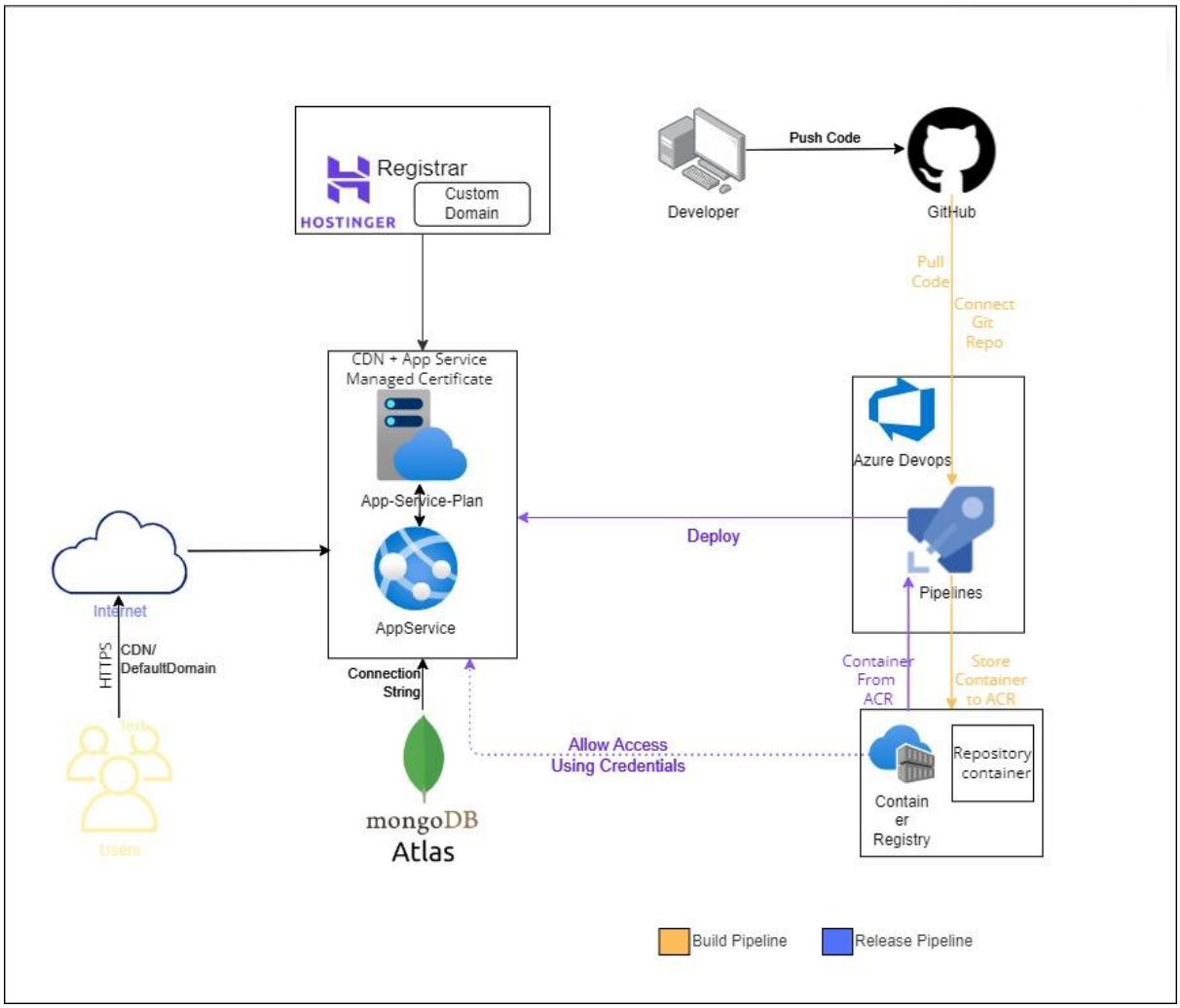
Continuous Integration and Continuous Deployment (CI/CD): The project implements a robust CI/CD pipeline that automates the deployment process. Developers push code changes to a GitHub repository, triggering a series of automated actions that build a Docker container of the web application, store it in an Azure Container Registry (ACR), and deploy it to an Azure App Service.

Azure Services Utilized:

1. Azure Container Registry (ACR): Used for storing and version-controlling Docker container images.
2. Azure App Service: The platform where the web application is hosted, offering auto-scaling and load balancing.
3. Azure DevOps Integration: Azure DevOps is used to set up the build and release pipelines, ensuring the seamless automation of the CI/CD process.
4. Custom Domain: The project enables access to the web application via a custom domain, leveraging Azure DNS for domain management and resolution.

The project's purpose is to streamline web application deployment on Azure, making it more efficient, reliable, and error-free. It offers developers a solution that minimizes manual deployment efforts, accelerates the release cycle, and ensures consistent and hassle-free updates and new feature deployments. The integration of multiple Azure services and DevOps practices makes this project a powerful and comprehensive solution for Azure-based web application deployment.

Flow Chart:



Expaination:

This project involves creating a seamless deployment pipeline for a web application. It leverages Microsoft Azure services, including Azure Container Registry (ACR), Azure App Service, and Azure DevOps. Here's a breakdown of the key components and steps:

1. Azure Container Registry (ACR): An ACR repository is set up to store Docker containers of the web application. The admin user is enabled in the access key tab for easy integration.
2. GitHub Repository: The project code is stored in a GitHub repository, providing version control and collaboration capabilities.
3. Azure DevOps: Azure DevOps is utilized to automate the build and release processes.

4. Build Pipeline: A build pipeline is created in Azure DevOps, which compiles the project code from the GitHub repository, packages it into a Docker container, and stores the container in ACR.
5. Azure App Service: An Azure App Service is configured to host the web application using Docker containers. This service provides a scalable and cost-effective hosting solution.
6. Deployment Center: The deployment center is accessed from the Azure portal, where the Docker container stored in ACR is deployed to the Azure App Service. This ensures the web application is up and running.
7. Release Pipeline: A release pipeline in Azure DevOps automates the deployment of the web application. Whenever changes are committed to the master branch in GitHub, the build and release processes are triggered automatically.

By automating these processes, the project enhances efficiency, reduces human errors, and allows for easy scaling and continuous integration. The project serves as a model for streamlined web application deployment using Azure services.

Problem Statement:

The project aims to address the challenge of manual and error-prone deployment processes for web applications on the Azure platform. Inefficient deployment practices often result in delays and issues in delivering updates and new features to end-users. This project identifies the problem of manual deployment and seeks to solve it through the implementation of a streamlined Continuous Integration and Continuous Deployment (CI/CD) pipeline. By automating the deployment process, the project mitigates deployment errors, enhances delivery speed, and promotes a more reliable and efficient web application deployment on Azure. This addresses the existing problem of manual and error-prone deployments and offers an opportunity to significantly improve the deployment workflow for web applications hosted on Azure.

Project Description:

The core idea behind this project is to address the problem of manual and error-prone deployment processes for web applications on the Azure platform. We are leveraging Azure's robust feature set to create an automated Continuous Integration and Continuous Deployment (CI/CD) pipeline. This project targets developers and development teams looking to streamline their web application deployment on Azure.

The problem we are solving is the inefficiency of manual deployments, which often lead to delays, errors, and inconsistencies in the release of updates and new features. By implementing an automated CI/CD pipeline, we are mitigating this problem. Our project allows developers to push their code changes to a GitHub repository, and from there, Azure DevOps takes over. It builds a Docker container of the web application, stores it in an Azure Container Registry (ACR), and then deploys it to an Azure App Service. This automated pipeline ensures that the deployment process is error-free and rapid.

Our project addresses the clear need for efficient, reliable, and consistent web application deployment on Azure. By automating the process, it not only eliminates manual errors but also accelerates the release cycle. The purpose and basic functionality of our project are closely aligned with the problem statement, offering a systematic solution that enables developers to focus on coding while the CI/CD pipeline takes care of deployment intricacies.

core Azure services:

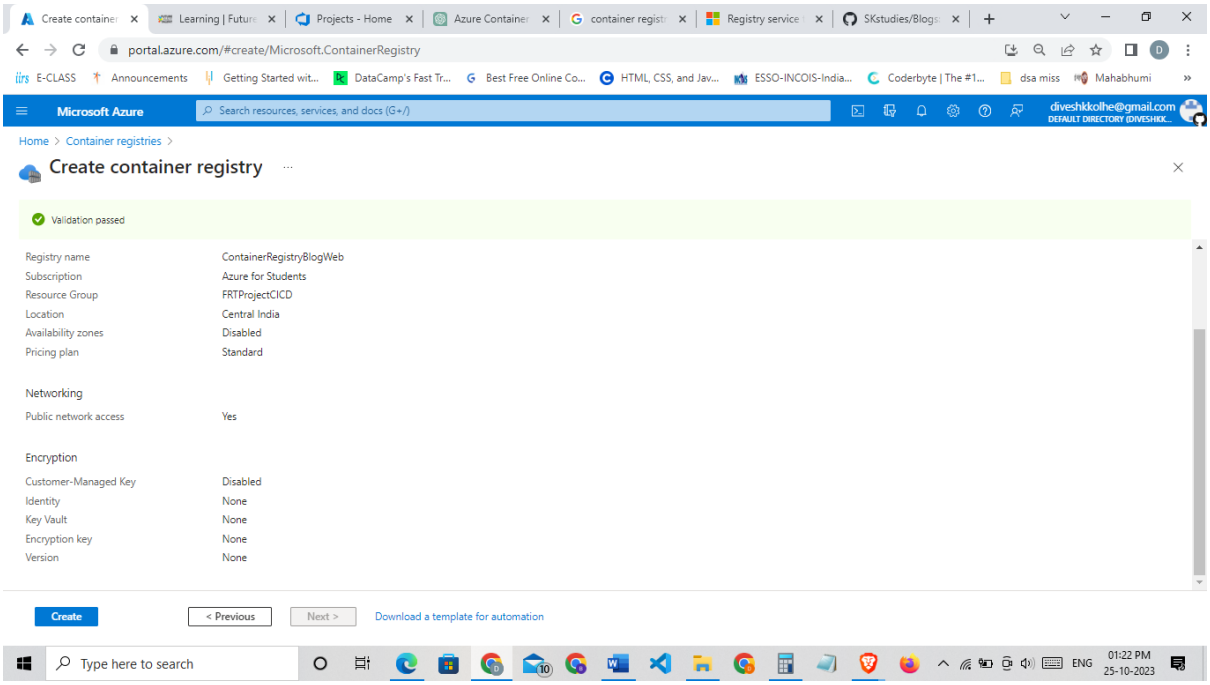
1. Azure Container Registry (ACR): ACR is the foundation for storing Docker container images, enabling us to efficiently manage and distribute containerized applications. We use ACR to store and version control our application's container images.
2. Azure App Service: Azure App Service is the platform where we host and run our web application. It provides a managed environment for web app deployment, including auto-scaling, load balancing, and seamless integration with our Docker containers stored in ACR.

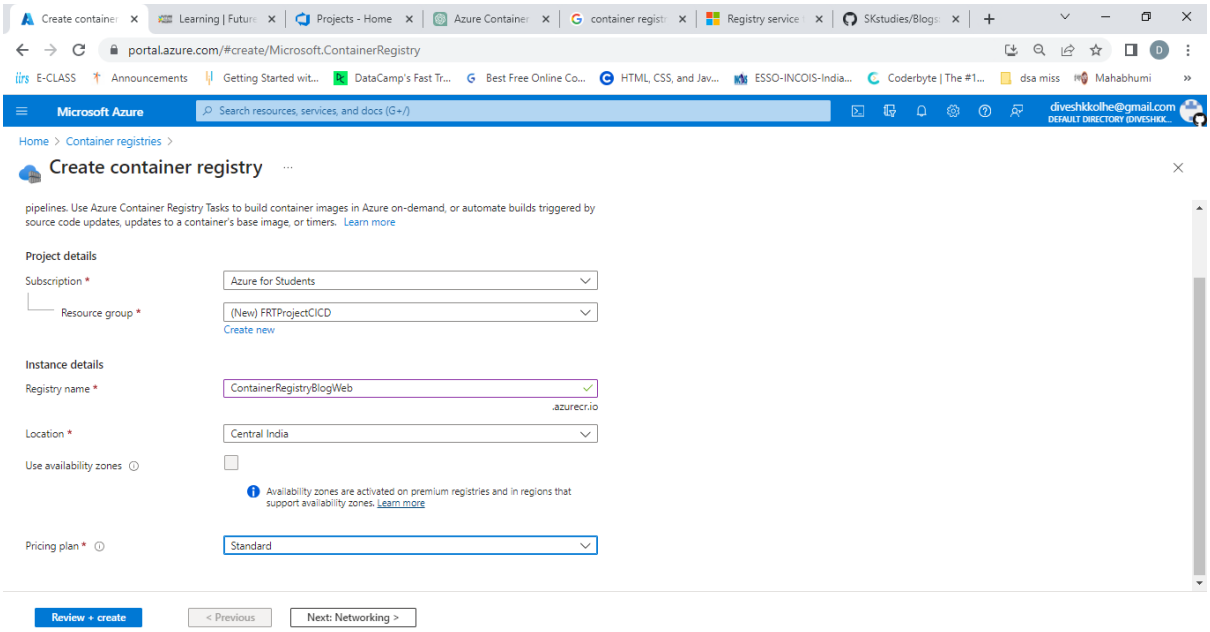
Additional Azure Services:

1. Azure DevOps: While not a core Azure service, Azure DevOps plays a crucial role in this project. It is used for setting up the build and release pipelines, automating the CI/CD process, and connecting various components of the project together.
2. DNS (for Custom Domain): To enable access to the web application via a custom domain, we utilize Azure DNS for domain name system (DNS) management and resolution. This service ensures proper routing from the custom domain to the Azure App Service hosting our application
3. App Service Managed Certificate: Providing SSL certificates for secure communication with the custom domain..

Complete Step By Step Process:

1. Create Container Repository




Create container registry
pipelines. Use Azure Container Registry Tasks to build container images in Azure on-demand, or automate builds triggered by source code updates, updates to a container's base image, or timers. Learn more
Project details
Subscription * Azure for Students
Resource group * (New) FRTProjectCICD
Create new
Instance details
Registry name * ContainerRegistryBlogWeb
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Location * Central India
Use availability zones
Availability zones are activated on premium registries and in regions that support availability zones. Learn more
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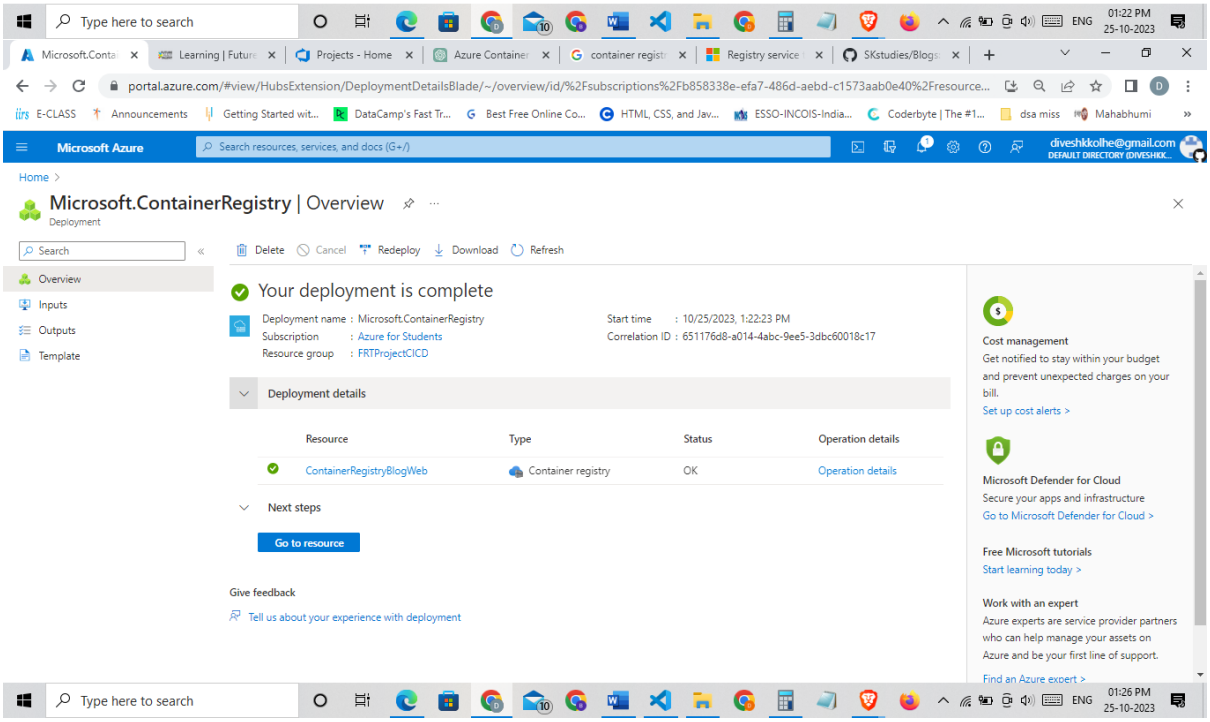
Microsoft.ContainerRegistry | Overview
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Deployment name : Microsoft.ContainerRegistry
Subscription : Azure for Students
Resource group : FRTProjectCICD
Start time : 10/25/2023, 1:22:23 PM
Correlation ID : 651176d8-a014-4abc-9ee5-3dbc60018c17
Deployment details
Resource
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Status
Operation details
ContainerRegistryBlogWeb
Container registry
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Operation details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Cost management
Get notified to stay within your budget and prevent unexpected charges on your bill.
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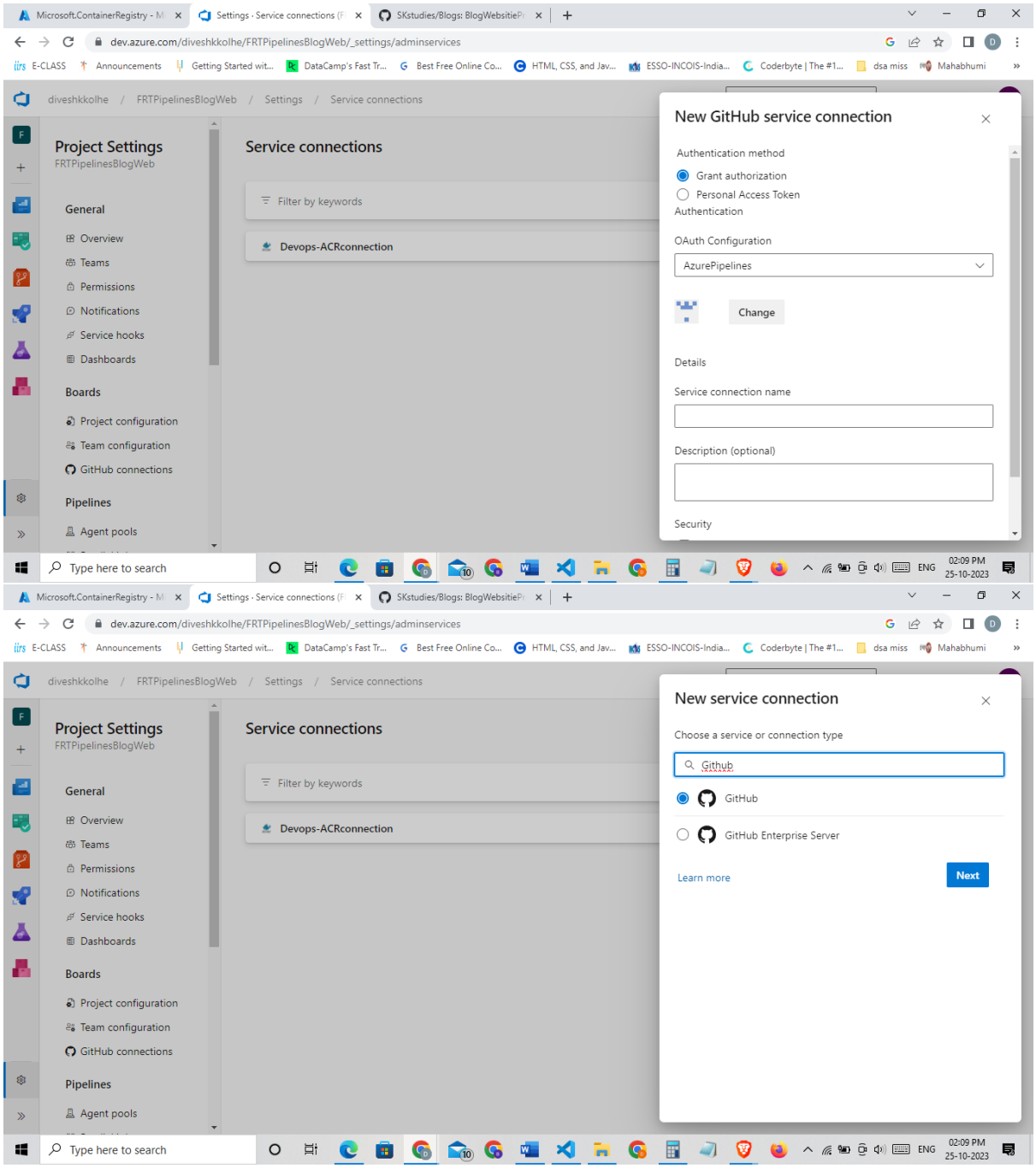
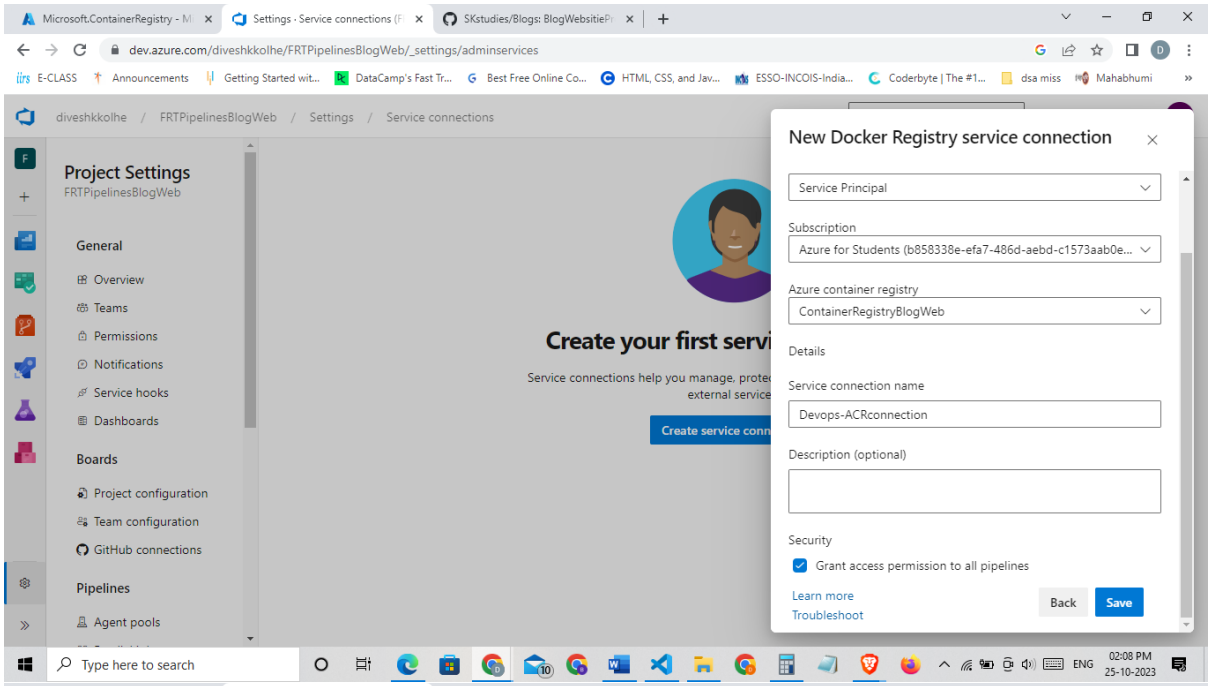
2. Create Service Connections From Devops To Github and ACR

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Azure container registry
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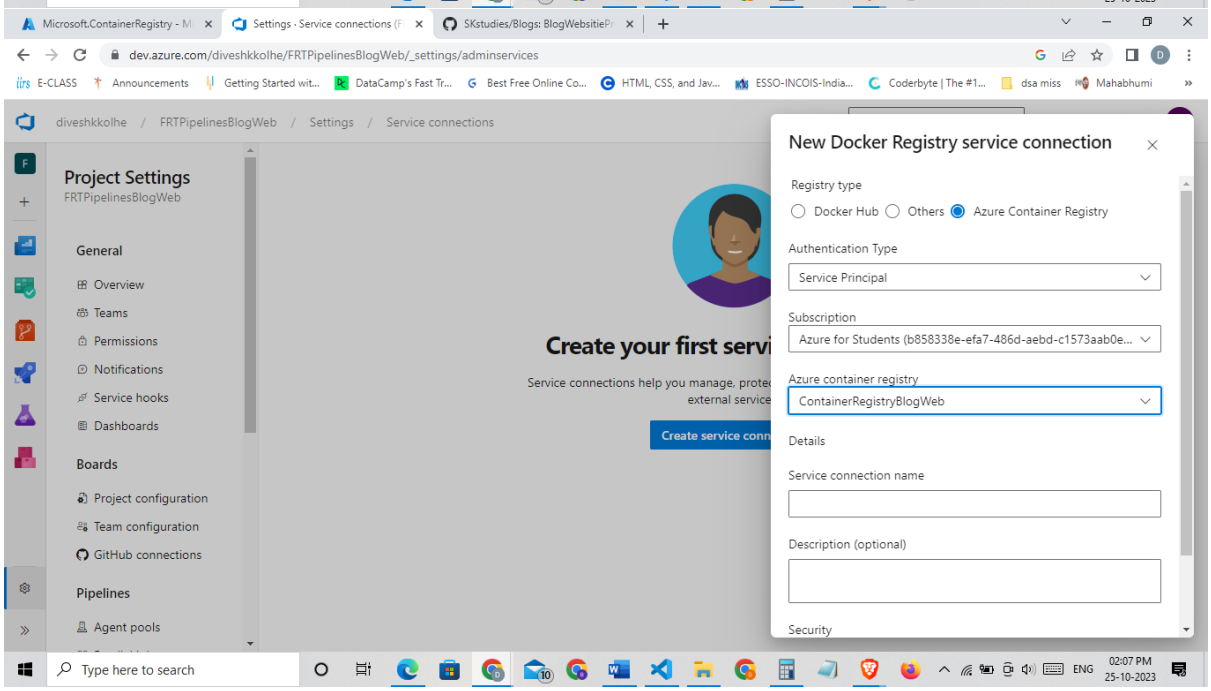
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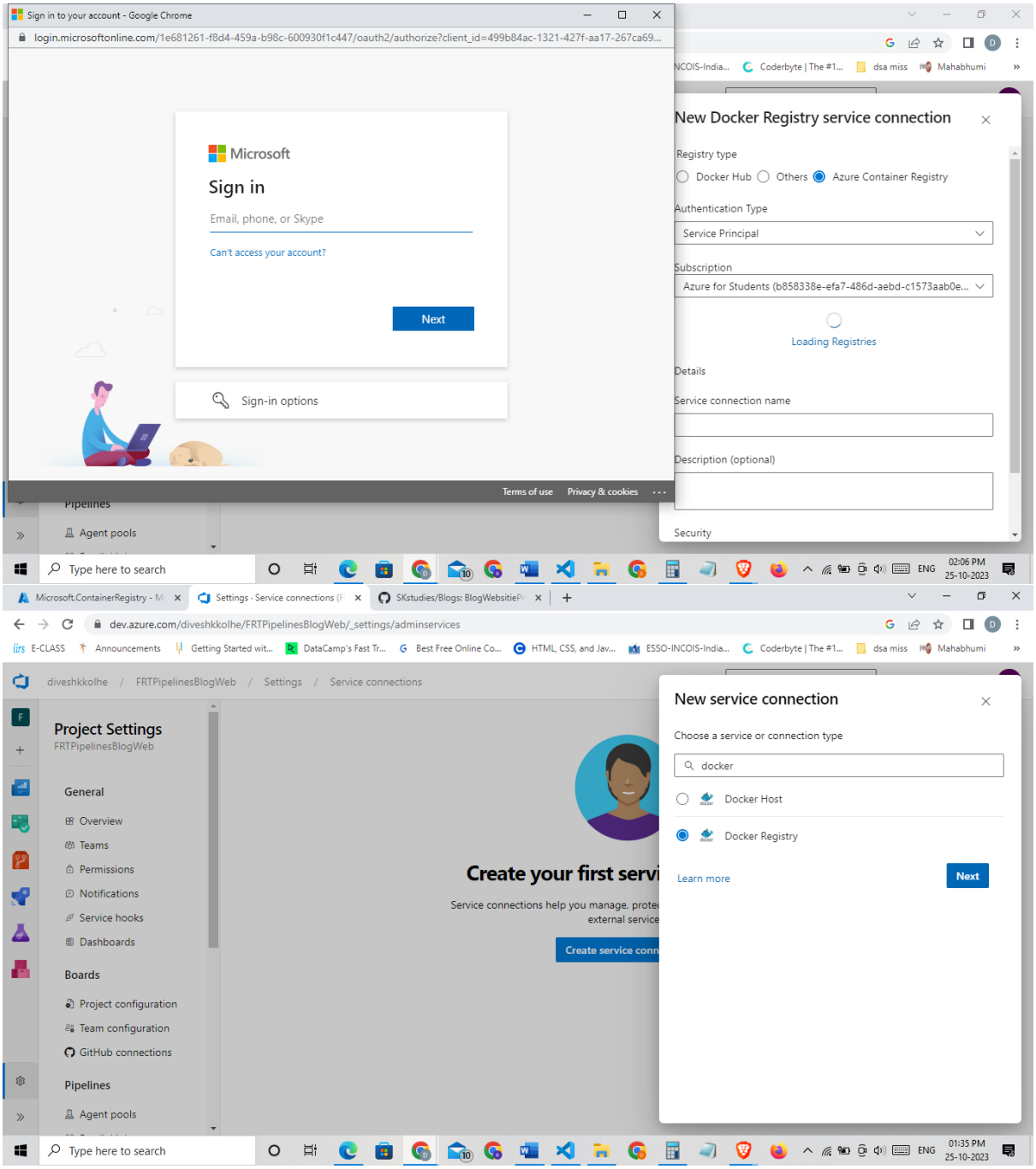
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Azure Container Registry
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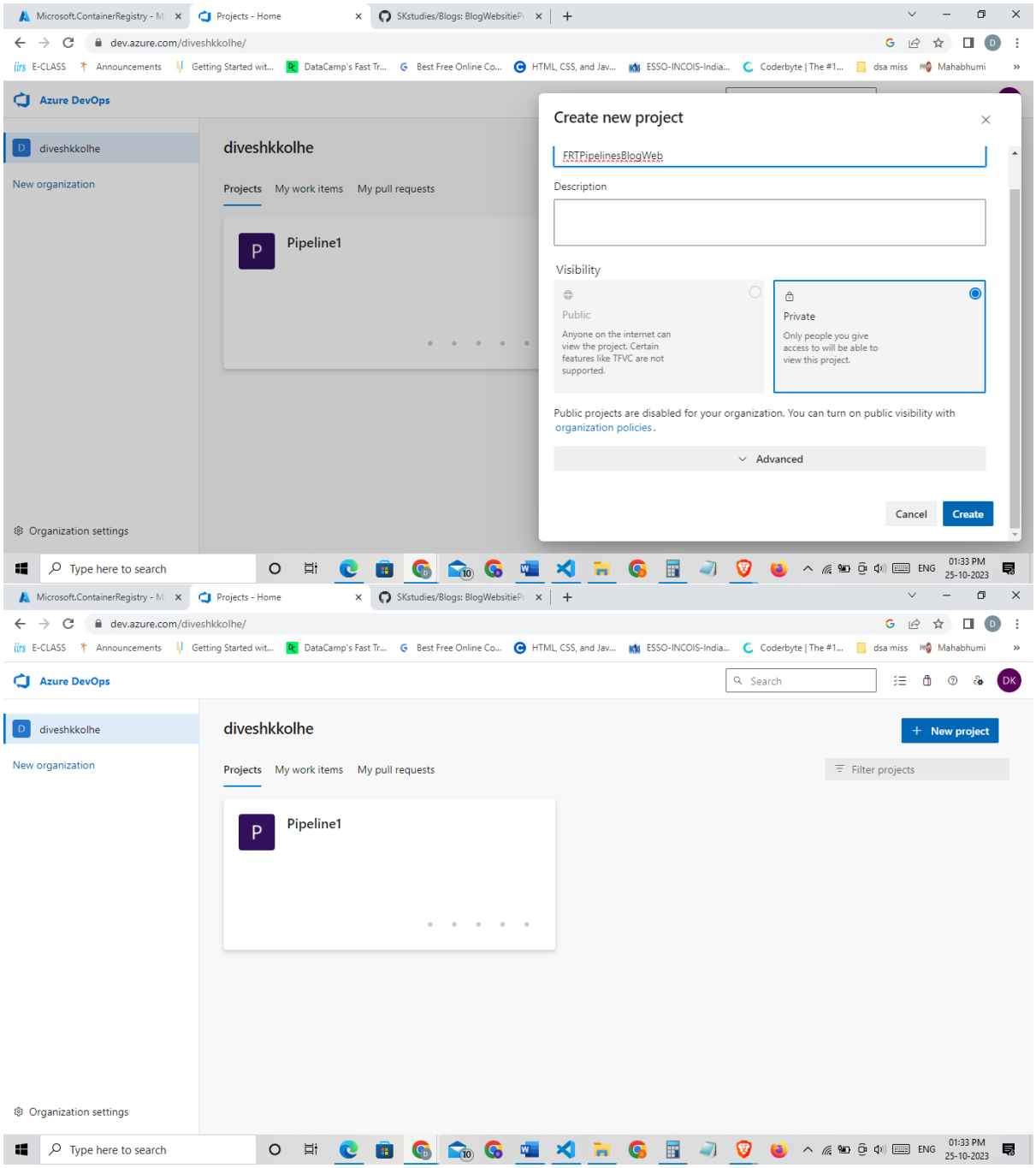
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Projects
My work items
My pull requests
Pipeline1
Create new project
FRTPipelinesBlogWeb
Description
Visibility
Public
Anyone on the internet can view the project. Certain features like TFVC are not supported.
Private
Only people you give access to will be able to view this project.
Public projects are disabled for your organization. You can turn on public visibility with organization policies.
Advanced
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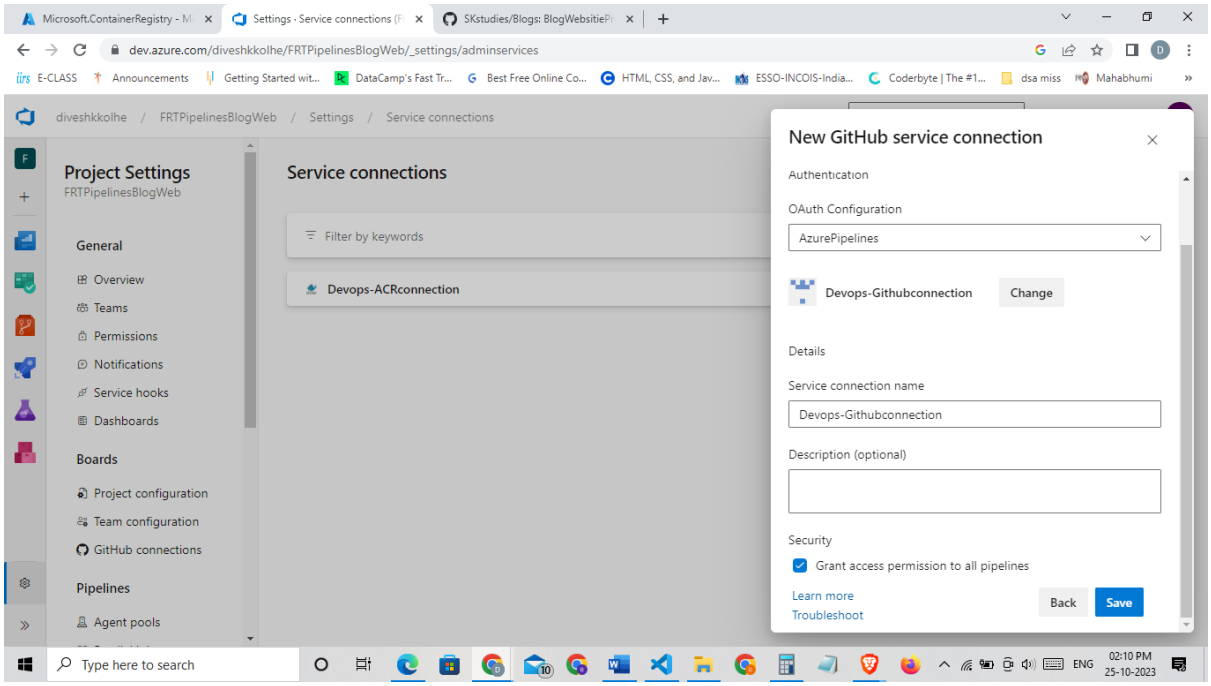
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Agent pools
Service connections
Filter by keywords
Devops-ACRconnection
New GitHub service connection
Authentication
OAuth Configuration
AzurePipelines
Devops-Githubconnection
Change
Details
Service connection name
Devops-Githubconnection
Description (optional)
Security
Grant access permission to all pipelines
Learn more
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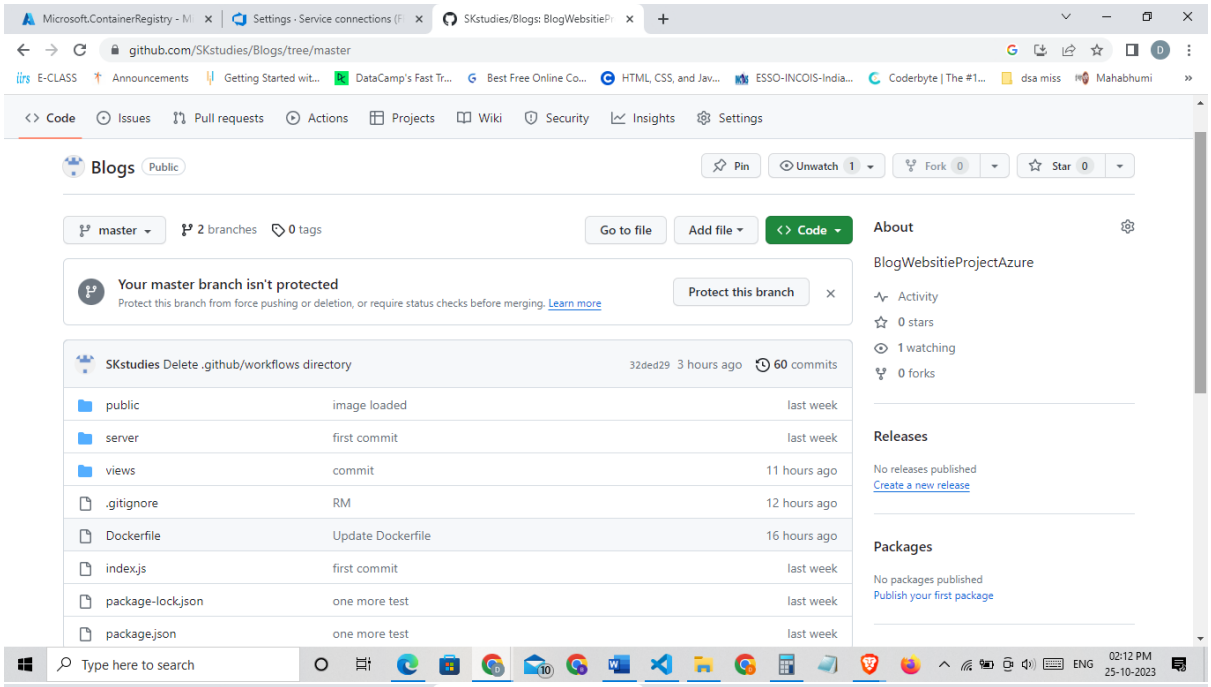
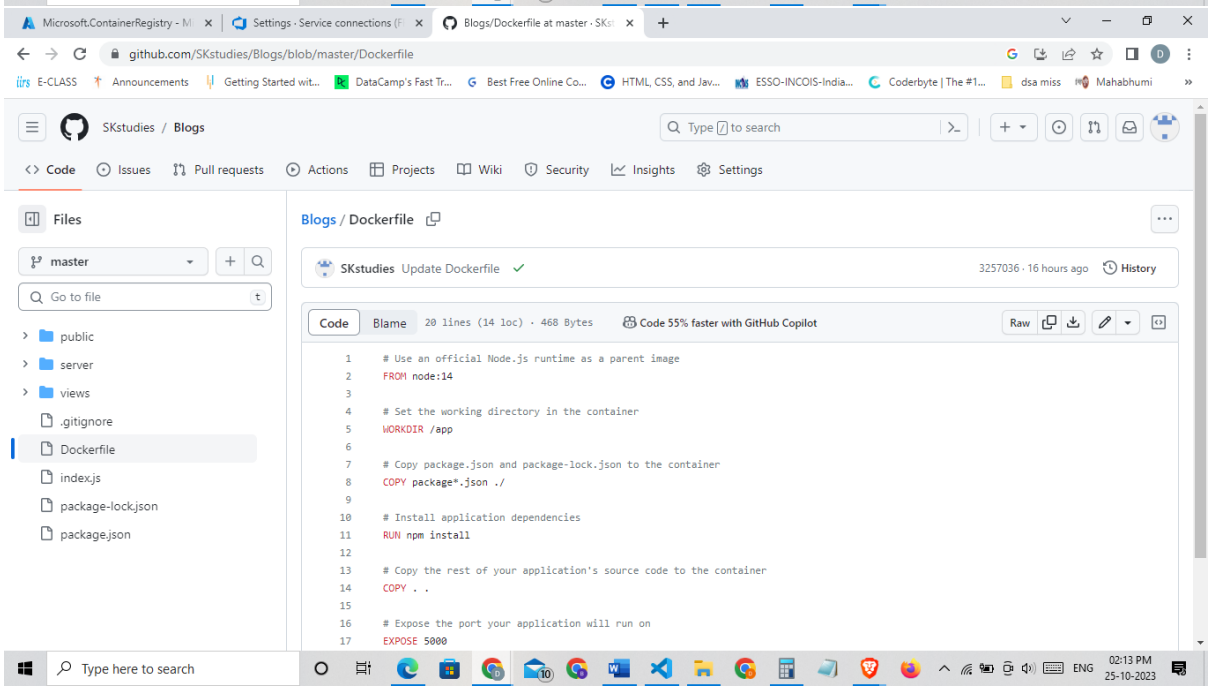
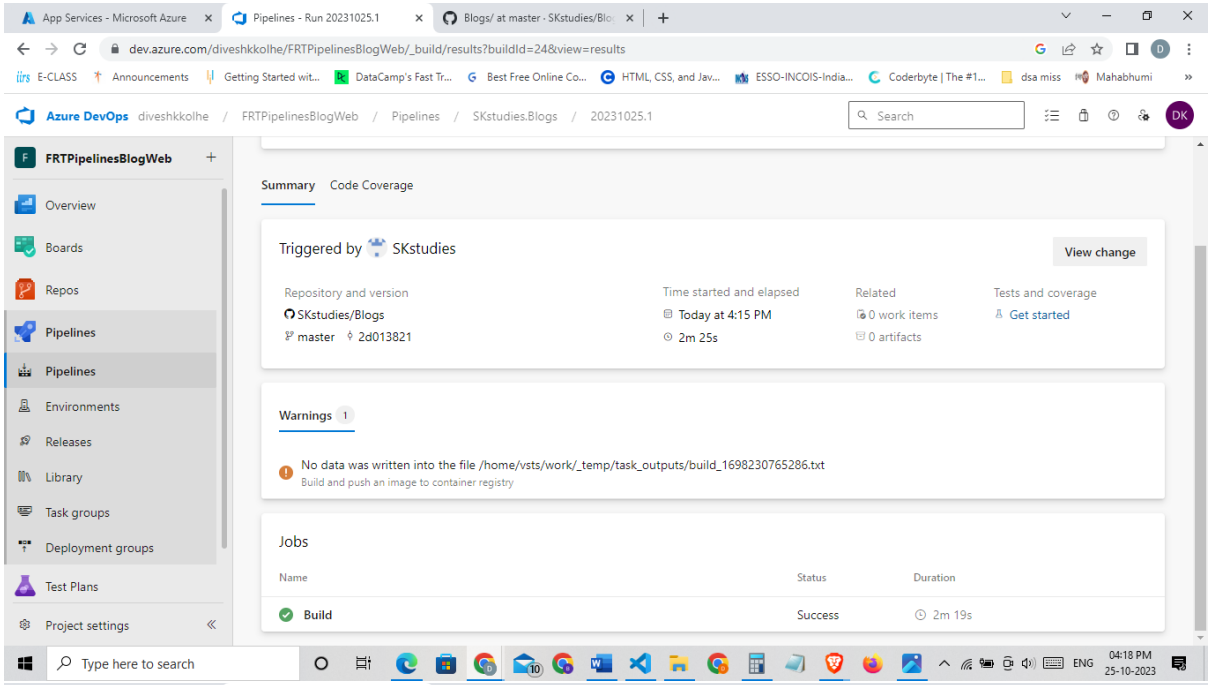
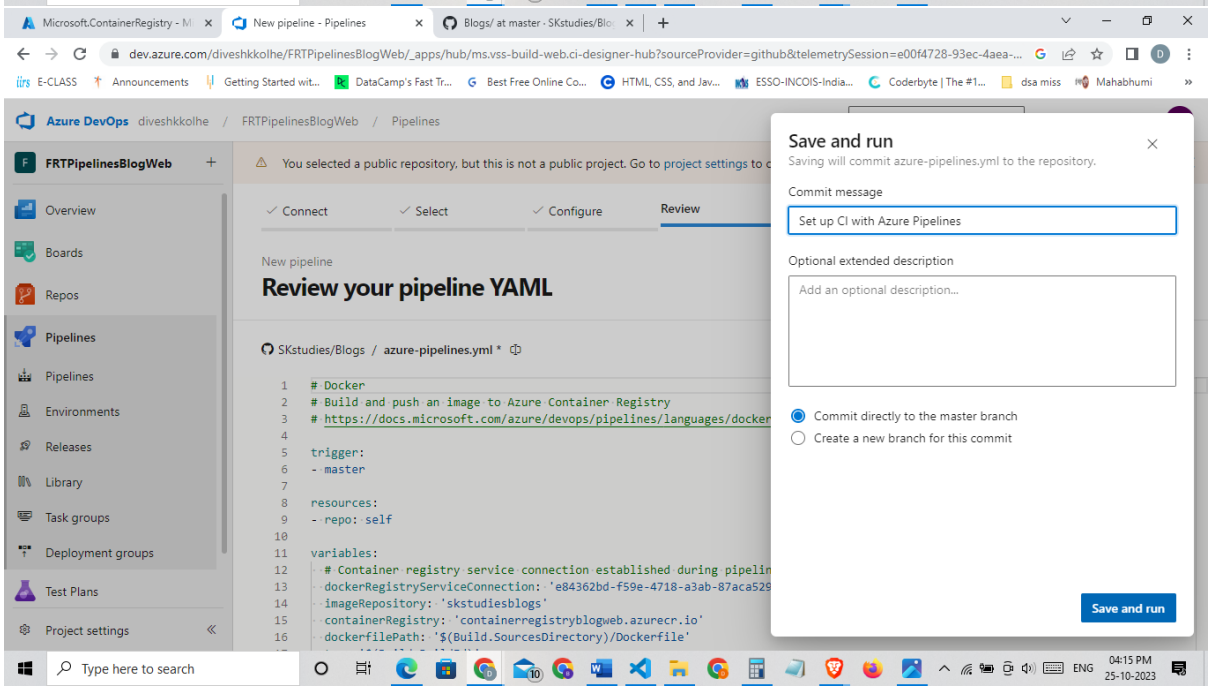
3. Push The Code To Github Repo Which Should Contain the Required Docker File.

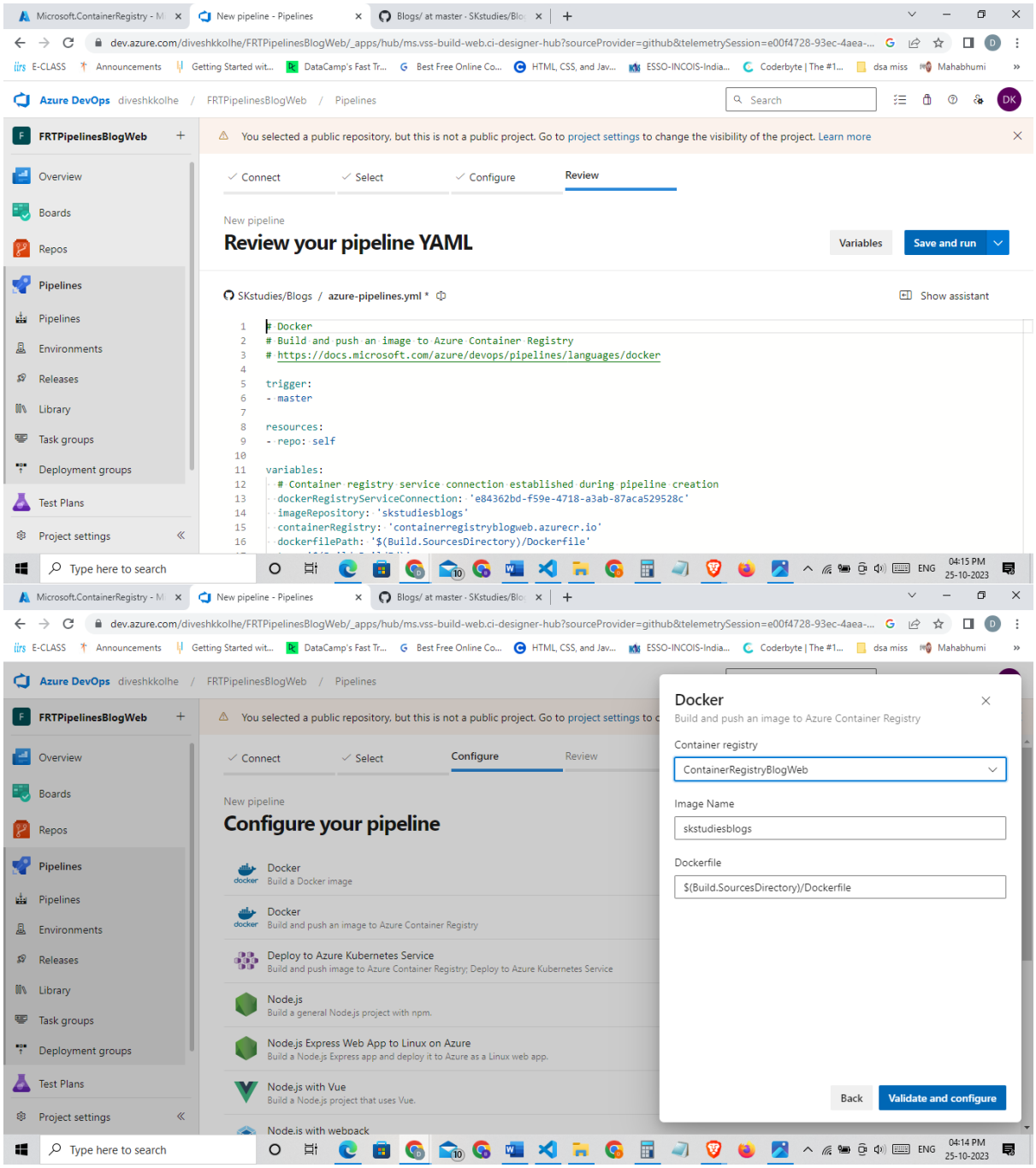




4. Create Build Pipeline.



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You selected a public repository, but this is not a public project. Go to project settings to change the visibility of the project. Learn more
Connect
Select
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Review your pipeline YAML
Variables
Save and run
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Show assistant
Docker
Build and push an image to Azure Container Registry
https://docs.microsoft.com/azure/devops/pipelines/languages/docker
trigger:
- master
resources:
- repo: self
variables:
Container registry service connection established during pipeline creation
dockerRegistryServiceConnection: 'e84362bd-f59e-4718-a3ab-87aca529528c'
imageRepository: 'skstudiesblogs'
containerRegistry: 'containerregistryblogweb.azurecr.io'
dockerfilePath: '$(Build.SourcesDirectory)/Dockerfile'
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Configure your pipeline
Docker
Build a Docker image
Docker
Build and push an image to Azure Container Registry
Deploy to Azure Kubernetes Service
Build and push image to Azure Container Registry; Deploy to Azure Kubernetes Service
Node.js
Build a general Node.js project with npm.
Node.js Express Web App to Linux on Azure
Build a Node.js Express app and deploy it to Azure as a Linux web app.
Node.js with Vue
Build a Node.js project that uses Vue.
Node.js with webpack
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Build and push an image to Azure Container Registry
Container registry
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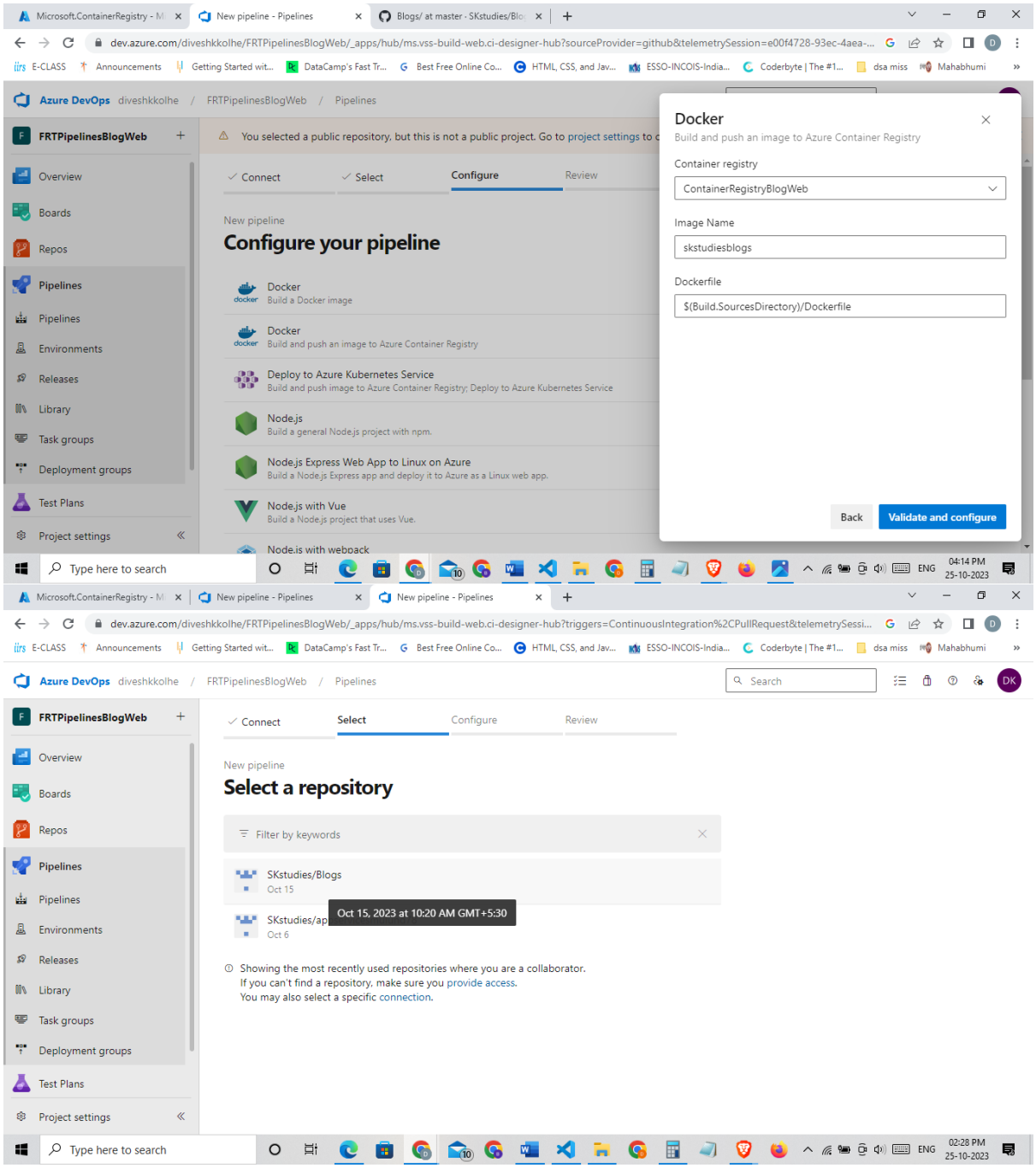
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Build a Docker image
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Build and push an image to Azure Container Registry
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Build and push image to Azure Container Registry; Deploy to Azure Kubernetes Service
Node.js
Build a general Node.js project with npm.
Node.js Express Web App to Linux on Azure
Build a Node.js Express app and deploy it to Azure as a Linux web app.
Node.js with Vue
Build a Node.js project that uses Vue.
Node.js with webpack
Docker
Build and push an image to Azure Container Registry
Container registry
ContainerRegistryBlogWeb
Image Name
skstudiesblogs
Dockerfile
$(Build.SourcesDirectory)/Dockerfile
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Showing the most recently used repositories where you are a collaborator.
If you can't find a repository, make sure you provide access.
You may also select a specific connection.
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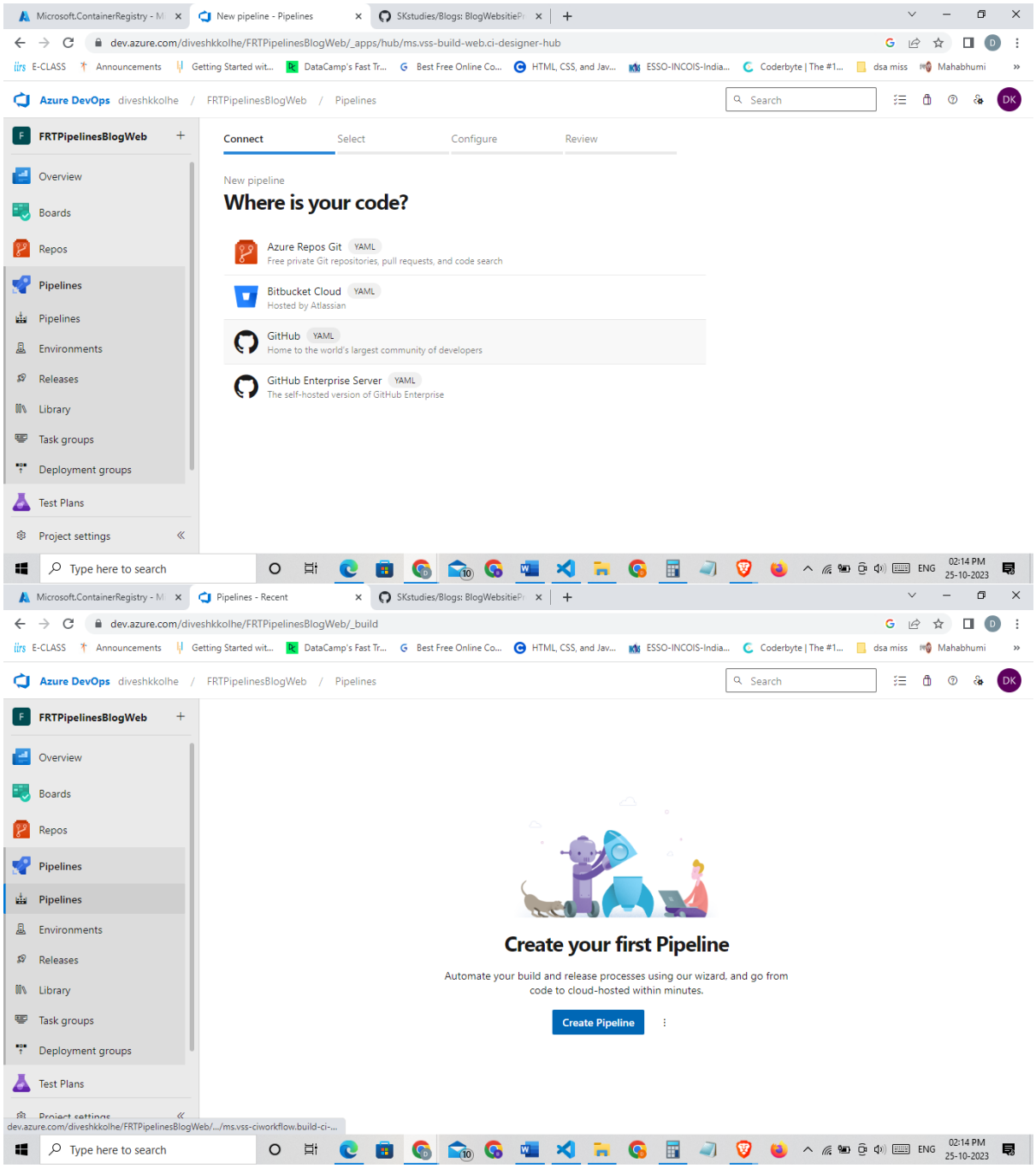
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Free private Git repositories, pull requests, and code search
Bitbucket Cloud
YAML
Hosted by Atlassian
GitHub
YAML
Home to the world's largest community of developers
GitHub Enterprise Server
YAML
The self-hosted version of GitHub Enterprise
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Create your first Pipeline
Automate your build and release processes using our wizard, and go from code to cloud-hosted within minutes.
Create Pipeline
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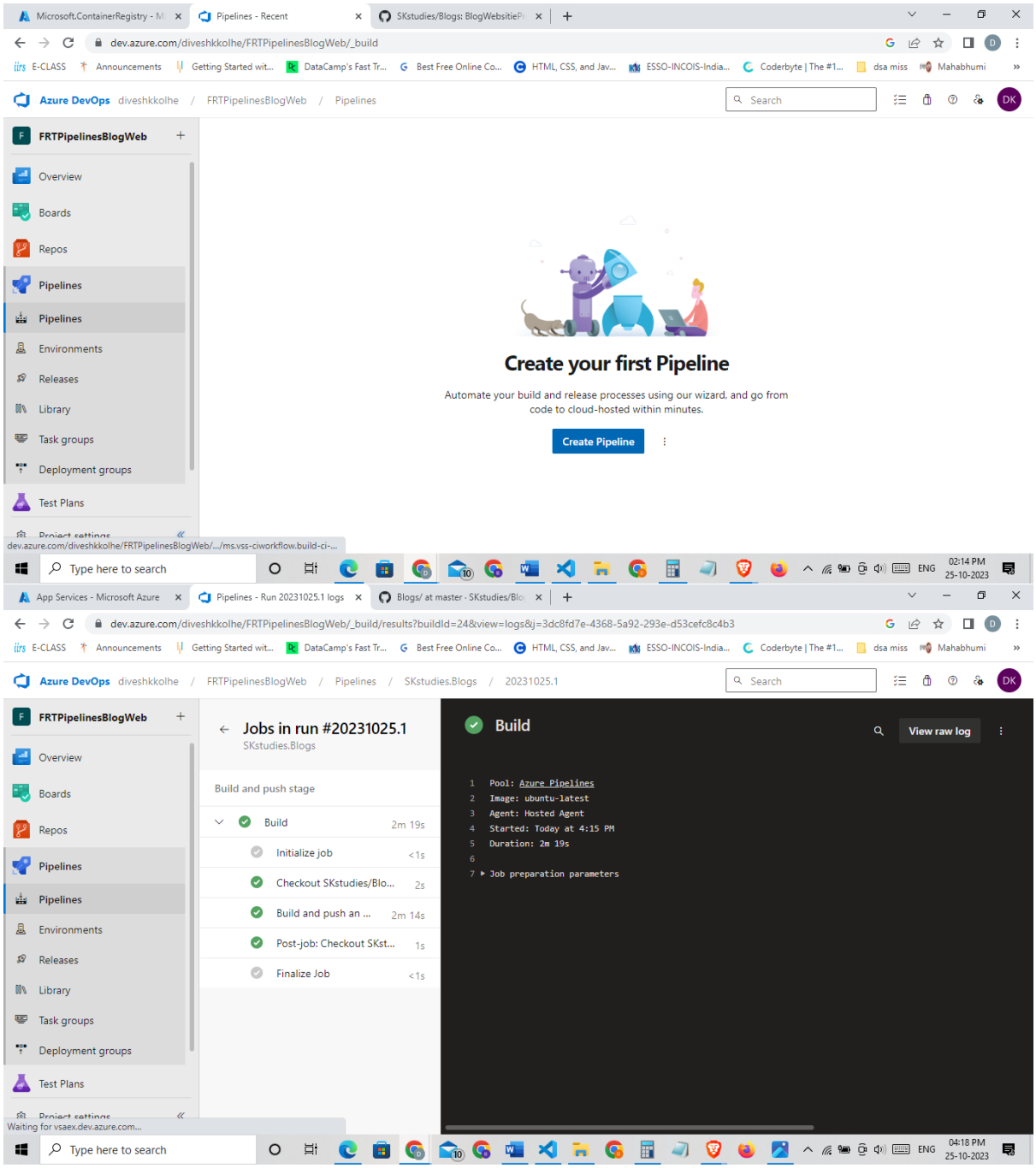
Microsoft.ContainerRegistry - M
Pipelines - Recent
SKstudies/Blogs: BlogWebsitiePr
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_build
E-CLASS
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Coderbyte | The #1...
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Mahabhumi
Azure DevOps
diveshkkolhe / FRTPipelinesBlogWeb / Pipelines
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DK
FRTPipelinesBlogWeb
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Pipelines
Environments
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Library
Task groups
Deployment groups
Test Plans
Create your first Pipeline
Automate your build and release processes using our wizard, and go from code to cloud-hosted within minutes.
Create Pipeline
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/.../ms.vss-ciworkflow.build-ci-...
Type here to search
ENG
02:14 PM
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App Services - Microsoft Azure
Pipelines - Run 20231025.1 logs
Blogs/ at master · SKstudies/Blo
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_build/results?buildId=24&view=logs&j=3dc8fd7e-4368-5a92-293e-d53cefc8c4b3
Azure DevOps diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / SKstudies.Blogs / 20231025.1
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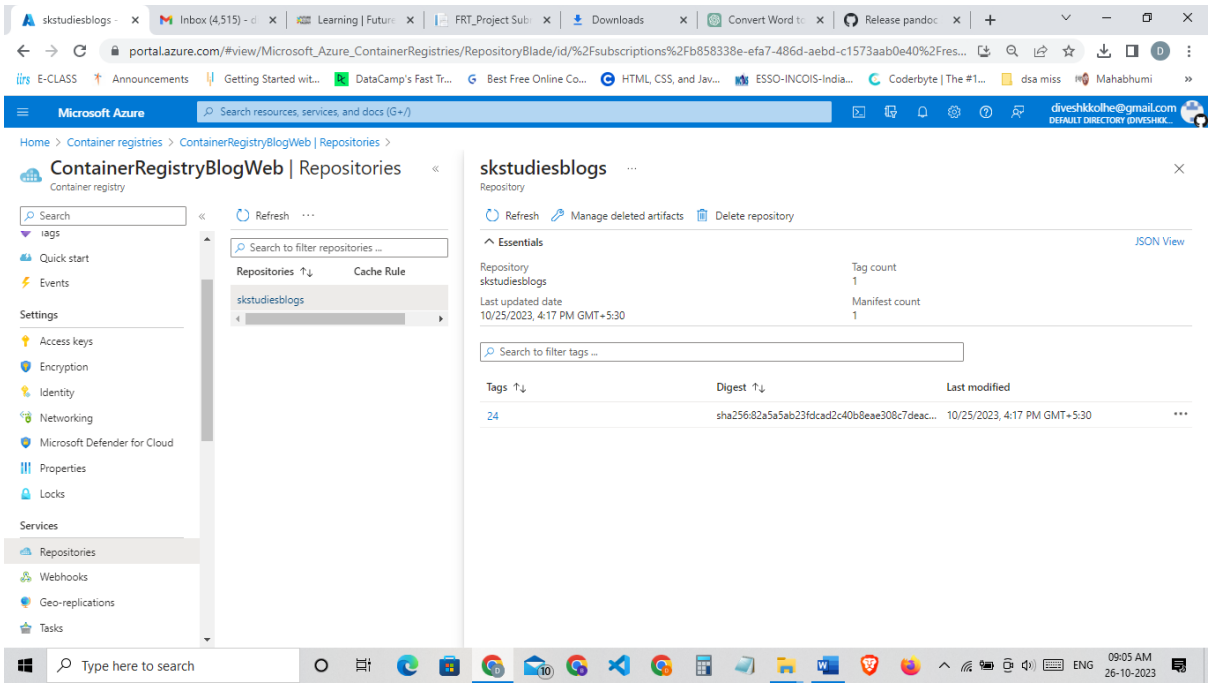
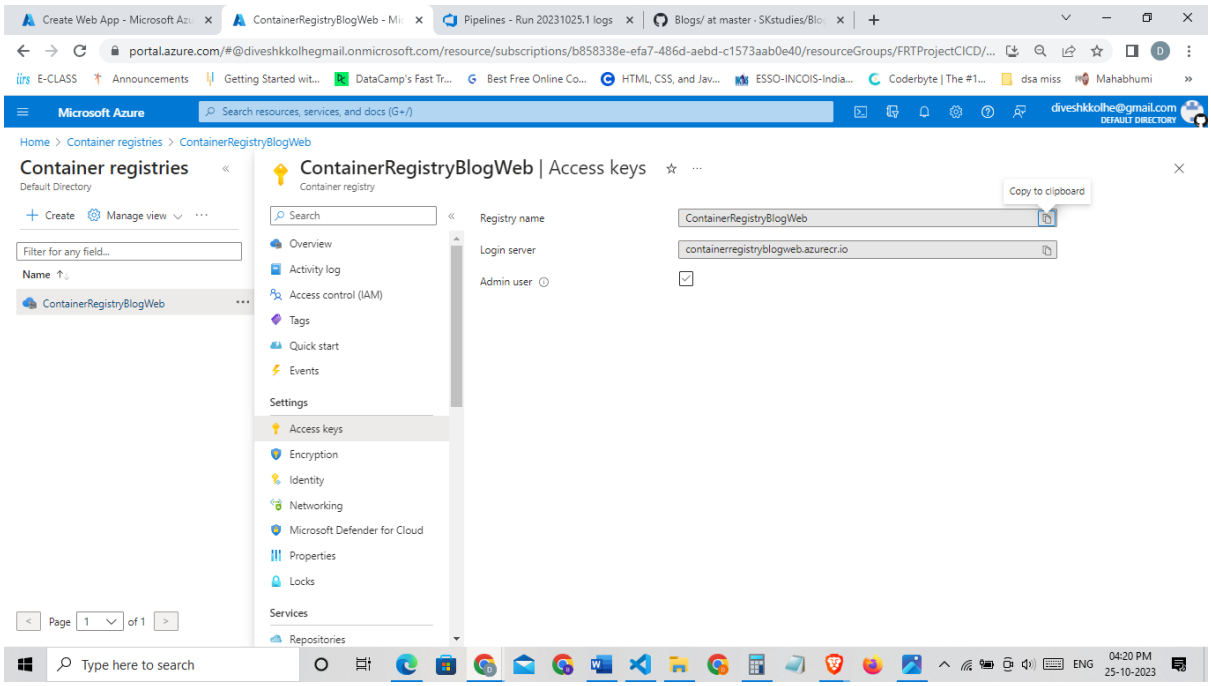
Test Plans
Jobs in run #20231025.1
SKstudies.Blogs
Build and push stage
Build 2m 19s
Initialize job <1s
Checkout SKstudies/Blo... 2s
Build and push an ... 2m 14s
Post-job: Checkout SKst... 1s
Finalize Job <1s
Build
View raw log
1 Pool: Azure Pipelines
2 Image: ubuntu-latest
3 Agent: Hosted Agent
4 Started: Today at 4:15 PM
5 Duration: 2m 19s
6
7 ▶ Job preparation parameters
Waiting for vsaex.dev.azure.com...
Type here to search
ENG
04:18 PM
25-10-2023

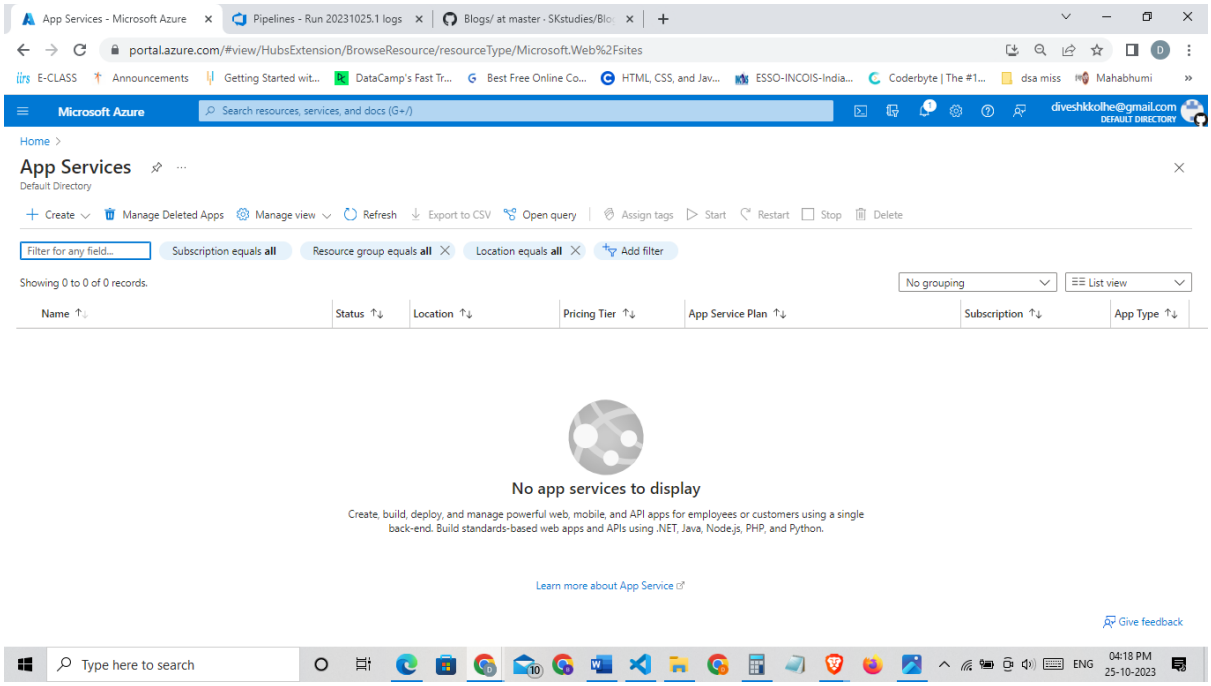
5. Docker Container Created In The Repository.

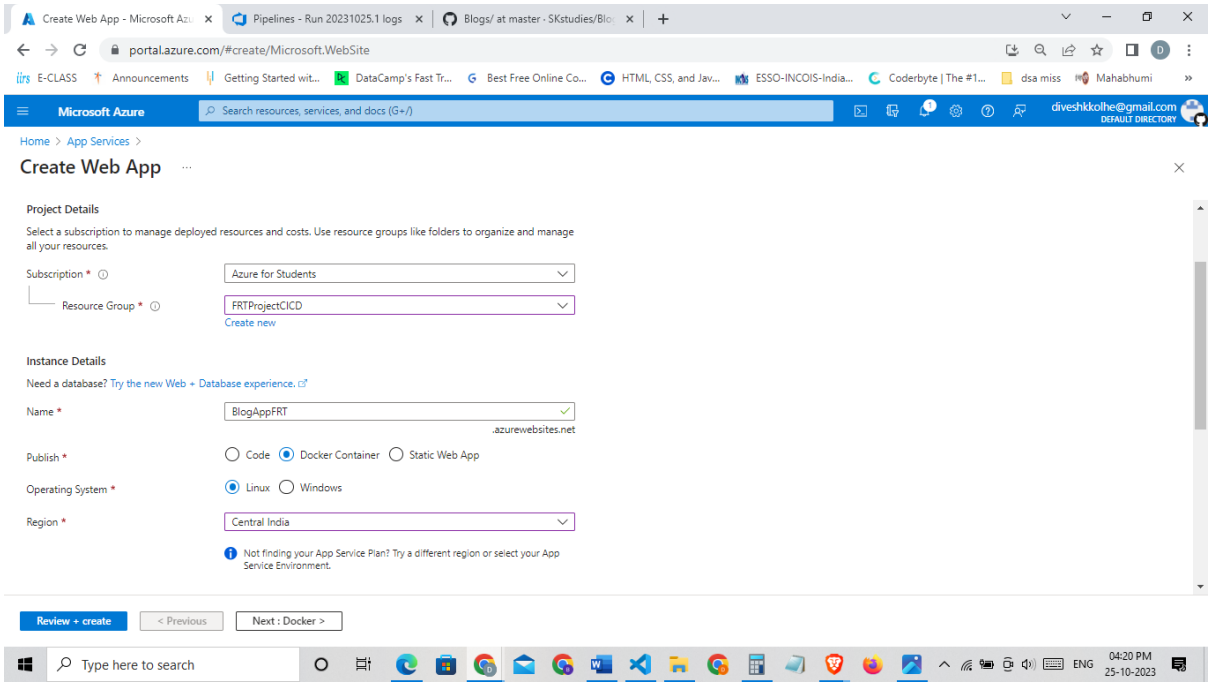


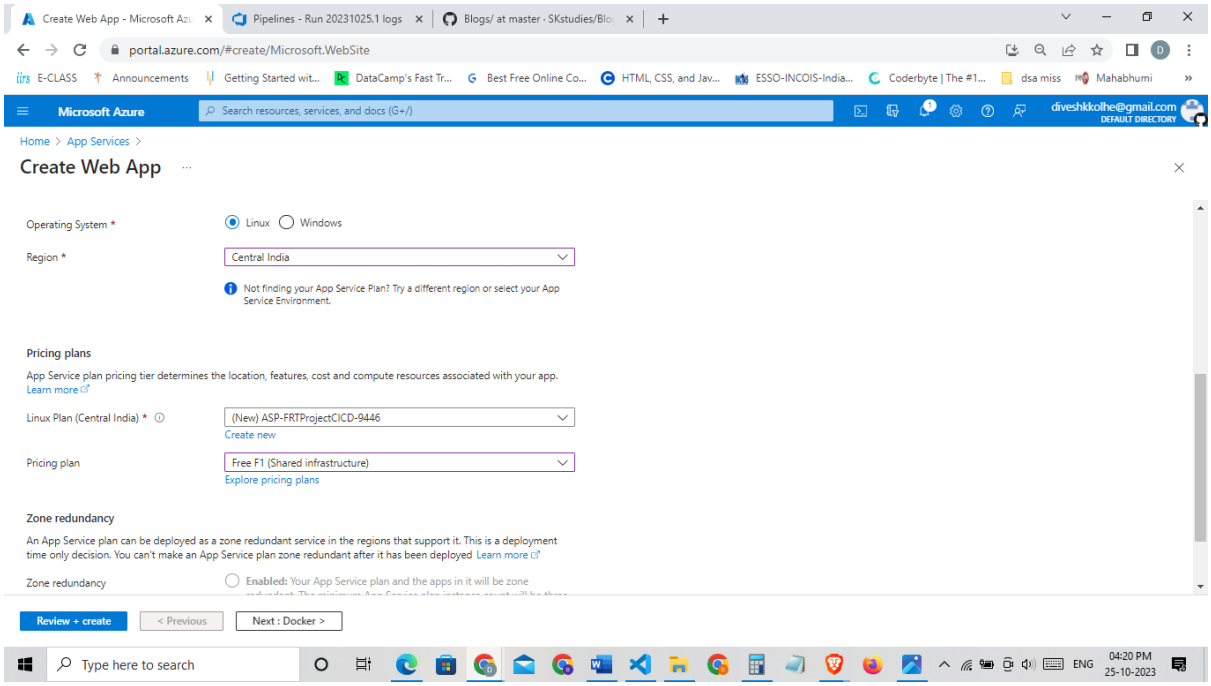
6. Allow Access.



7. Create Web App.






Create Web App - Microsoft Azu
Pipelines - Run 20231025.1 logs
Blogs/ at master · SKstudies/Blo
portal.azure.com/#create/Microsoft.WebSite
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Create Web App
Operating System *
Linux
Windows
Region *
Central India
Not finding your App Service Plan? Try a different region or select your App Service Environment.
Pricing plans
App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
Learn more
Linux Plan (Central India) *
(New) ASP-FRTProjectCICD-9446
Create new
Pricing plan
Free F1 (Shared infrastructure)
Explore pricing plans
Zone redundancy
An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed Learn more
Zone redundancy
Enabled: Your App Service plan and the apps in it will be zone
Review + create
< Previous
Next : Docker >
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ENG
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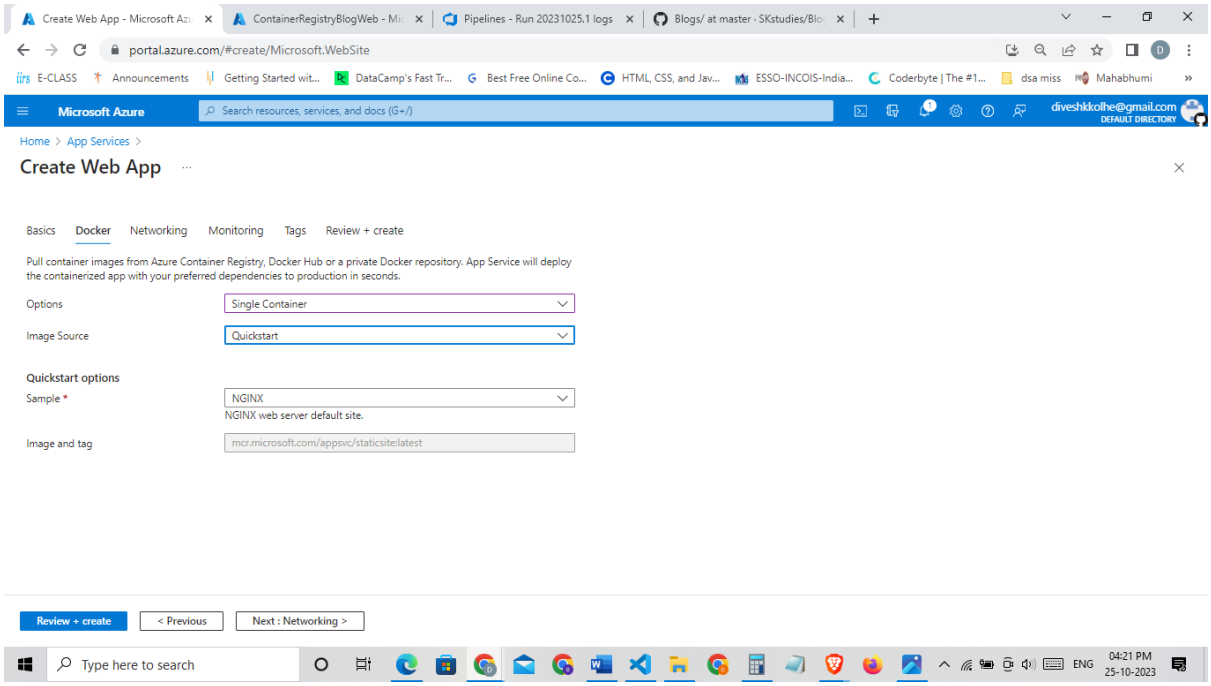
Create Web App - Microsoft Azu
ContainerRegistryBlogWeb - Mic
Pipelines - Run 20231025.1 logs
Blogs/ at master · SKstudies/Blo
portal.azure.com/#create/Microsoft.WebSite
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Basics
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Networking
Monitoring
Tags
Review + create
Pull container images from Azure Container Registry, Docker Hub or a private Docker repository. App Service will deploy the containerized app with your preferred dependencies to production in seconds.
Options
Single Container
Image Source
Quickstart
Quickstart options
Sample *
NGINX
NGINX web server default site.
Image and tag
mcr.microsoft.com/appsvc/staticsite:latest
Review + create
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Next : Networking >
Type here to search
ENG
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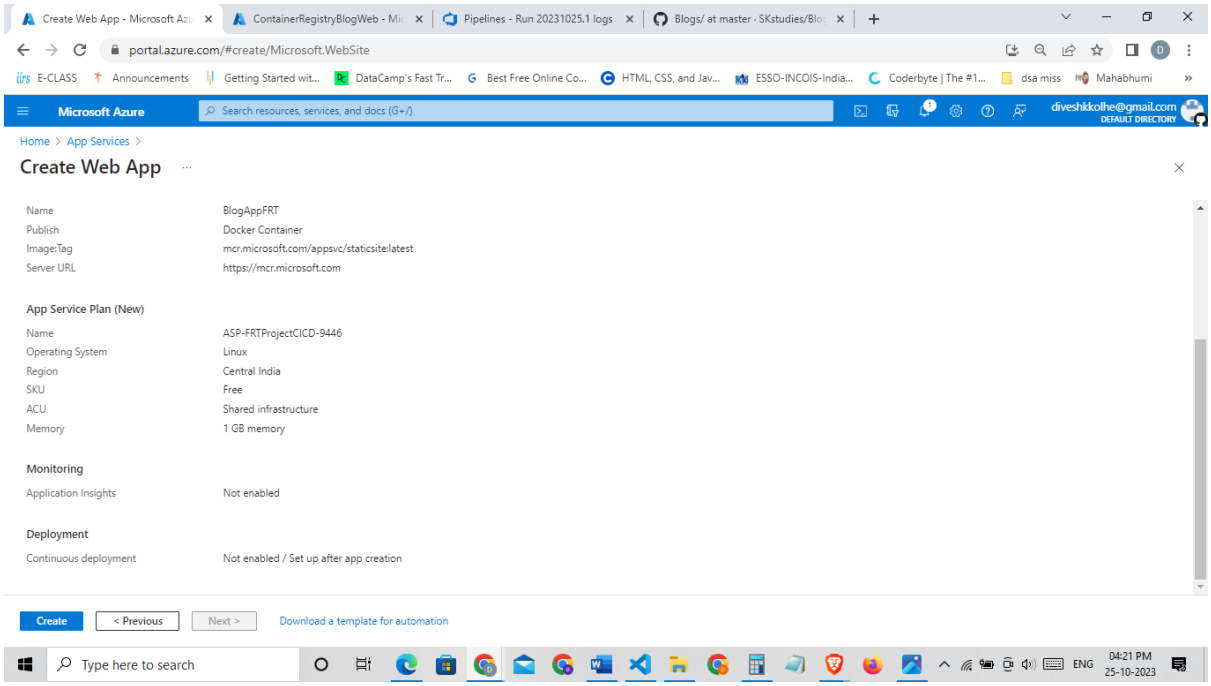
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ContainerRegistryBlogWeb - Mic
Pipelines - Run 20231025.1 logs
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Home > App Services >
Create Web App
Name BlogAppFRT
Publish Docker Container
Image:Tag mcr.microsoft.com/appsvc/staticsite:latest
Server URL https://mcr.microsoft.com
App Service Plan (New)
Name ASP-FRTProjectCICD-9446
Operating System Linux
Region Central India
SKU Free
ACU Shared infrastructure
Memory 1 GB memory
Monitoring
Application Insights Not enabled
Deployment
Continuous deployment Not enabled / Set up after app creation
Create
< Previous
Next >
Download a template for automation
Type here to search
ENG
04:21 PM
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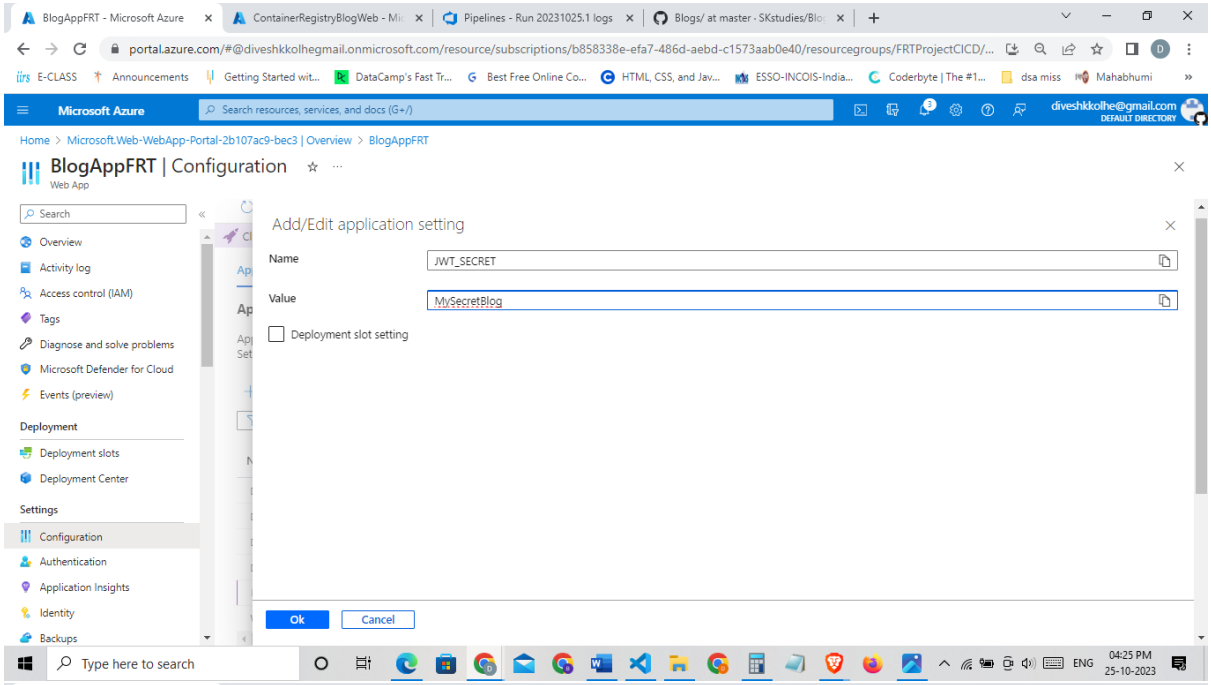
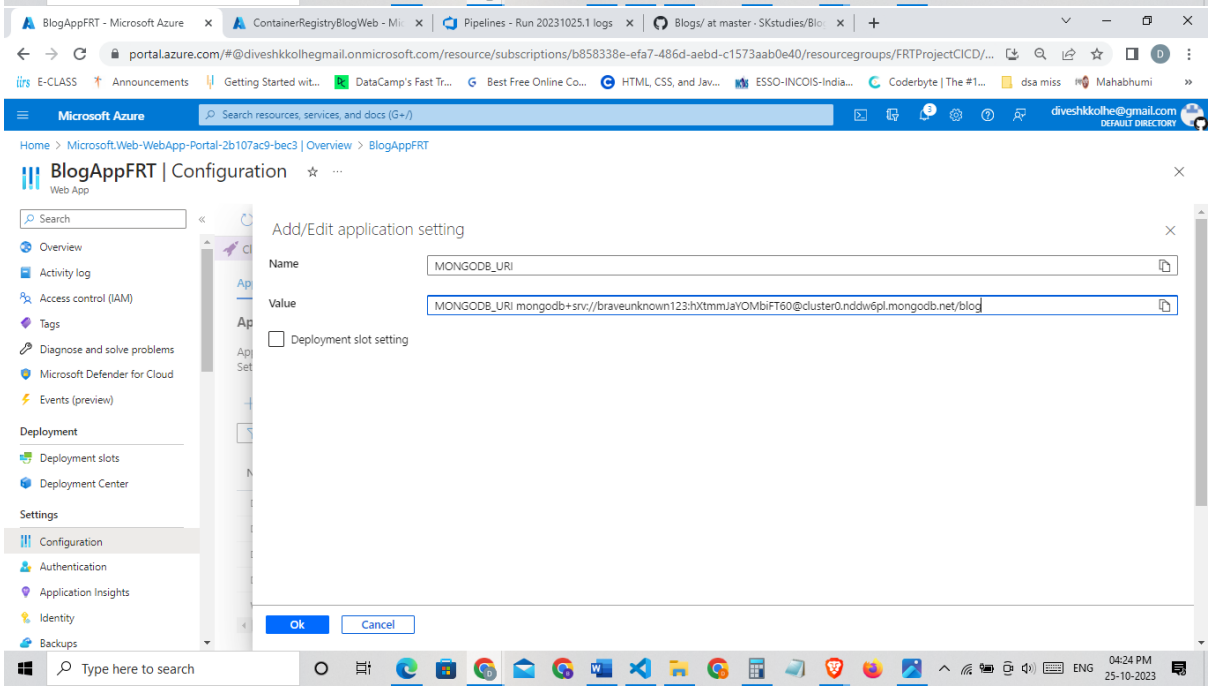
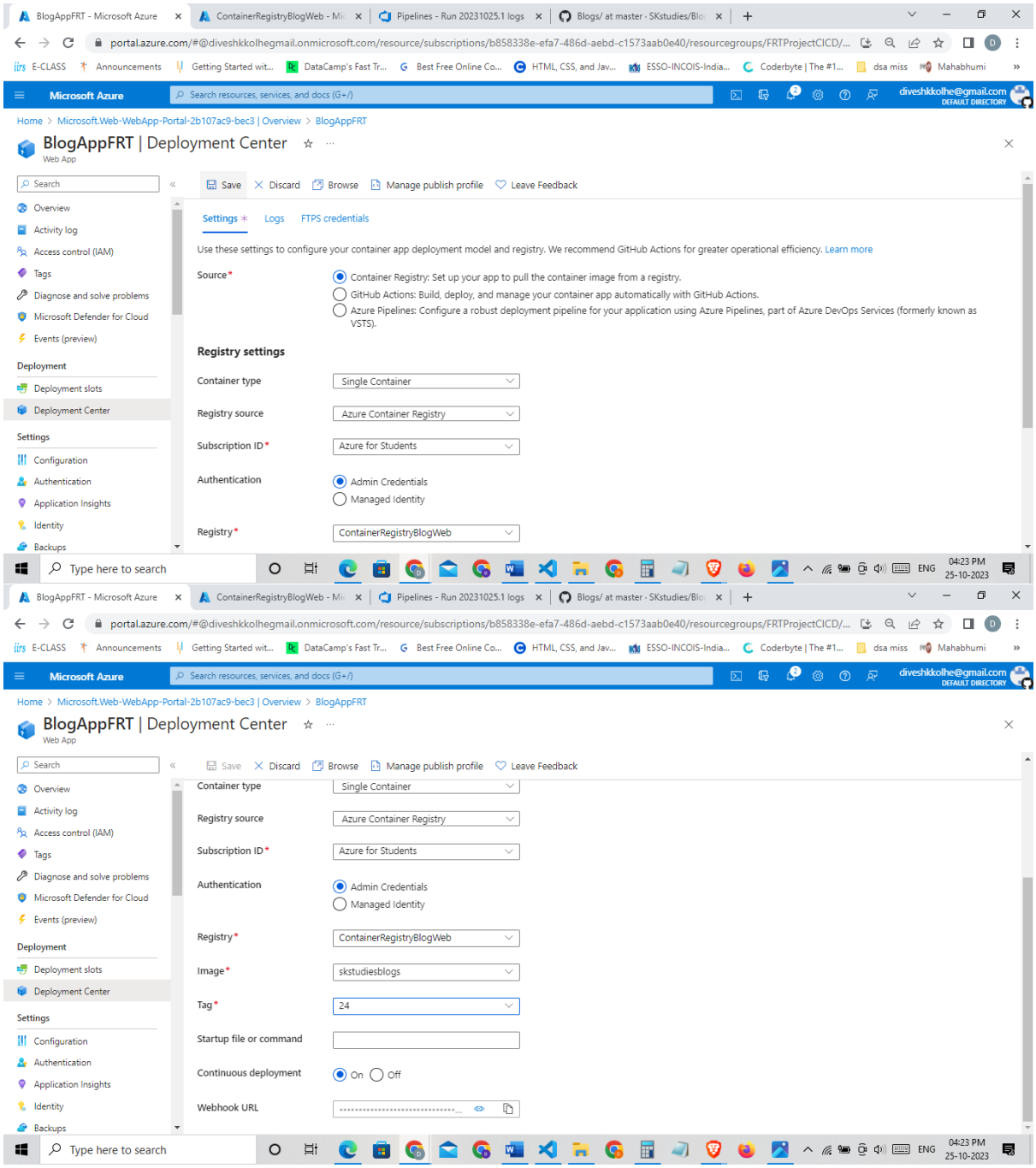
8. Modify Application Settings and Deploy.



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ContainerRegistryBlogWeb - Mi
Pipelines - Run 20231025.1 logs
Blogs/ at master · SKstudies/Blo
portal.azure.com/#@diveshkkolhegmail.onmicrosoft.com/resource/subscriptions/b858338e-efa7-486d-aebd-c1573aab0e40/resourcegroups/FRTProjectCICD/...
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Deployment Center
Settings
Configuration
Authentication
Application Insights
Identity
Backups
Save
Discard
Browse
Manage publish profile
Leave Feedback
Settings
Logs
FTPS credentials
Use these settings to configure your container app deployment model and registry. We recommend GitHub Actions for greater operational efficiency. Learn more
Source*
Container Registry: Set up your app to pull the container image from a registry.
GitHub Actions: Build, deploy, and manage your container app automatically with GitHub Actions.
Azure Pipelines: Configure a robust deployment pipeline for your application using Azure Pipelines, part of Azure DevOps Services (formerly known as VSTS).
Registry settings
Container type
Single Container
Registry source
Azure Container Registry
Subscription ID*
Azure for Students
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Admin Credentials
Managed Identity
Registry*
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Container type
Single Container
Registry source
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Subscription ID*
Azure for Students
Authentication
Admin Credentials
Managed Identity
Registry*
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Image*
skstudiesblogs
Tag*
24
Startup file or command
Continuous deployment
On
Off
Webhook URL
Type here to search
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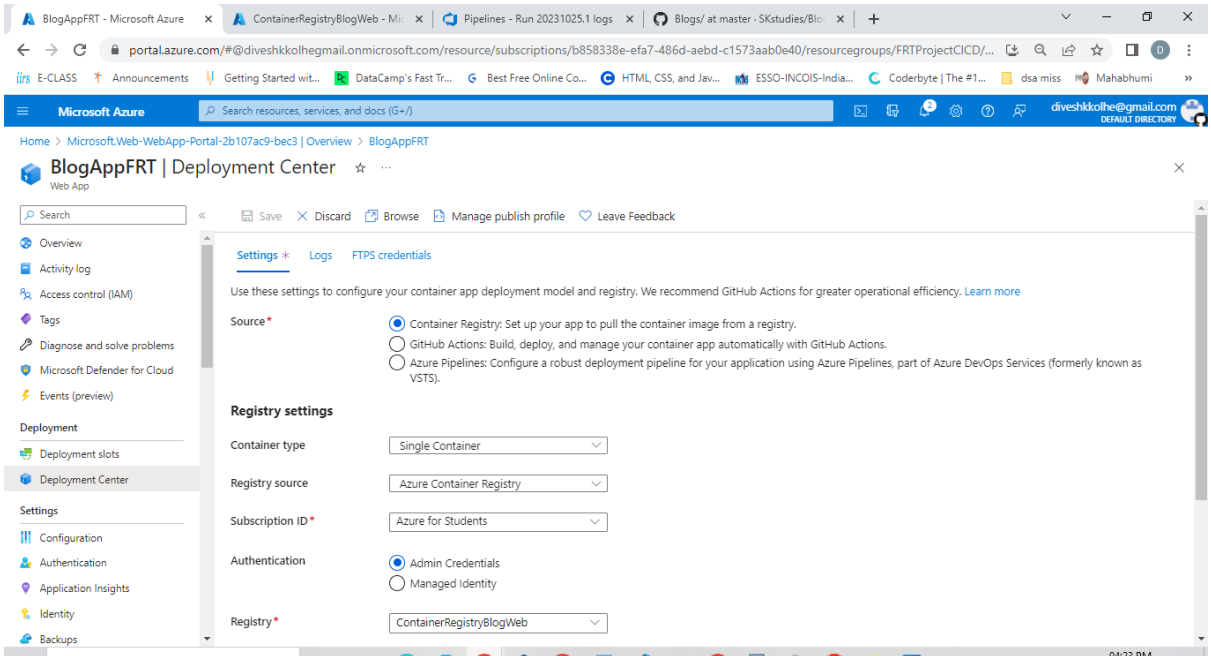
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portal.azure.com/#@diveshkkolhegmail.onmicrosoft.com/resource/subscriptions/b858338e-efa7-486d-aebd-c1573aab0e40/resourcegroups/FRTProjectCICD/...
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Backups
Save
Discard
Browse
Manage publish profile
Leave Feedback
Settings
Logs
FTPS credentials
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Source*
Container Registry: Set up your app to pull the container image from a registry.
GitHub Actions: Build, deploy, and manage your container app automatically with GitHub Actions.
Azure Pipelines: Configure a robust deployment pipeline for your application using Azure Pipelines, part of Azure DevOps Services (formerly known as VSTS).
Registry settings
Container type
Single Container
Registry source
Azure Container Registry
Subscription ID*
Azure for Students
Authentication
Admin Credentials
Managed Identity
Registry*
ContainerRegistryBlogWeb
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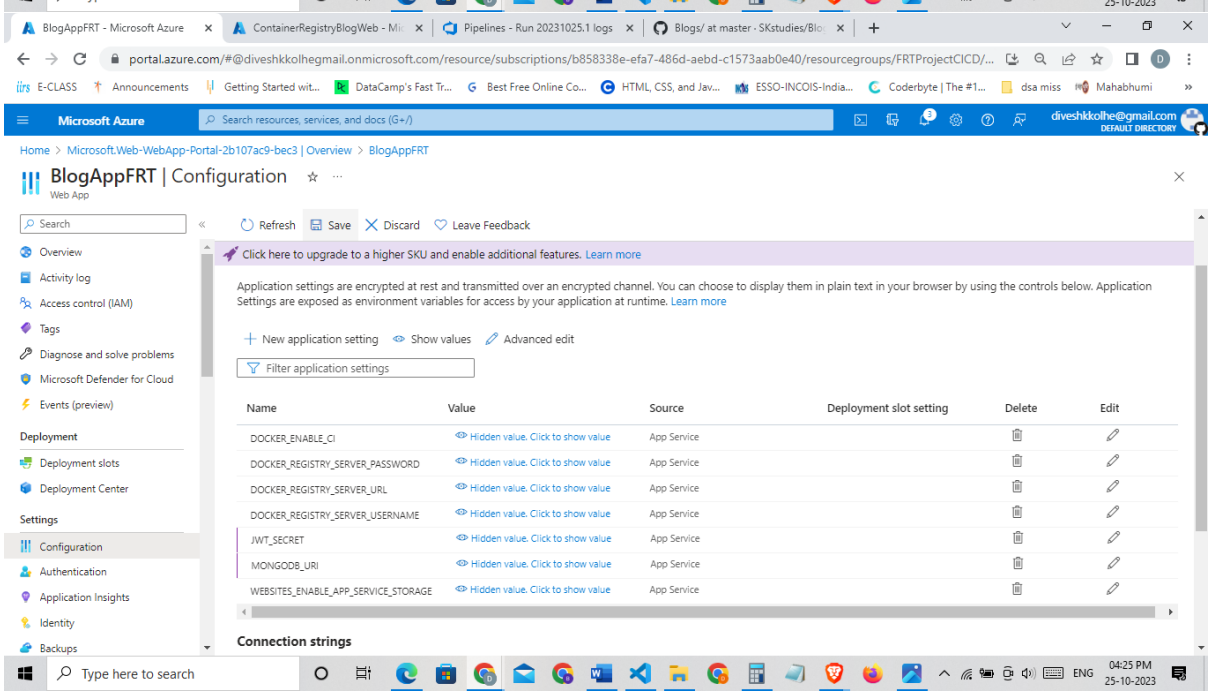
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Leave Feedback
Click here to upgrade to a higher SKU and enable additional features. Learn more
Application settings are encrypted at rest and transmitted over an encrypted channel. You can choose to display them in plain text in your browser by using the controls below. Application Settings are exposed as environment variables for access by your application at runtime. Learn more
New application setting
Show values
Advanced edit
Filter application settings
Name
Value
Source
Deployment slot setting
Delete
Edit
DOCKER_ENABLE_CI
DOCKER_REGISTRY_SERVER_PASSWORD
DOCKER_REGISTRY_SERVER_URL
DOCKER_REGISTRY_SERVER_USERNAME
JWT_SECRET
MONGODB_URI
WEBSITES_ENABLE_APP_SERVICE_STORAGE
Hidden value. Click to show value
App Service
Connection strings
Type here to search
ENG
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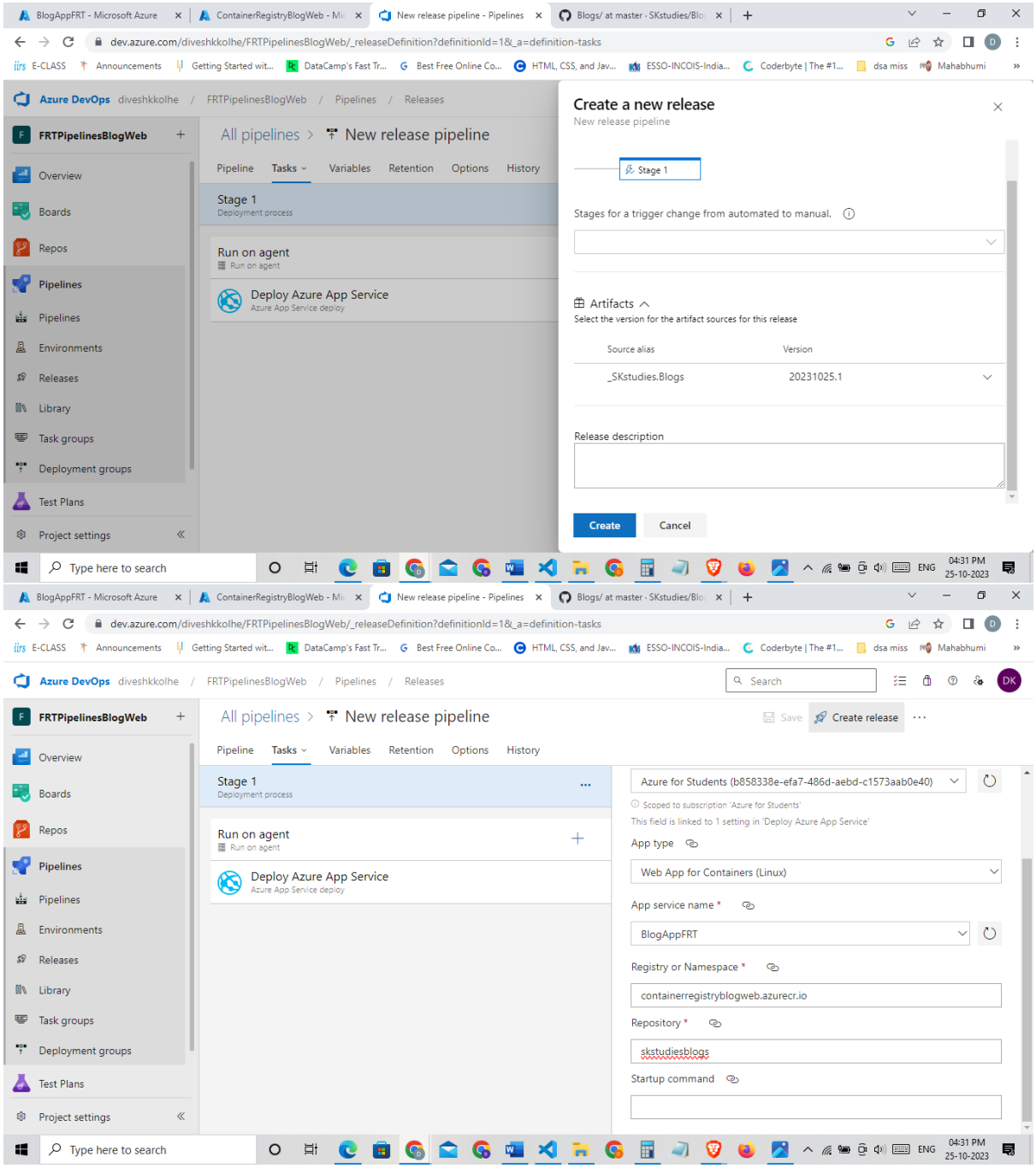
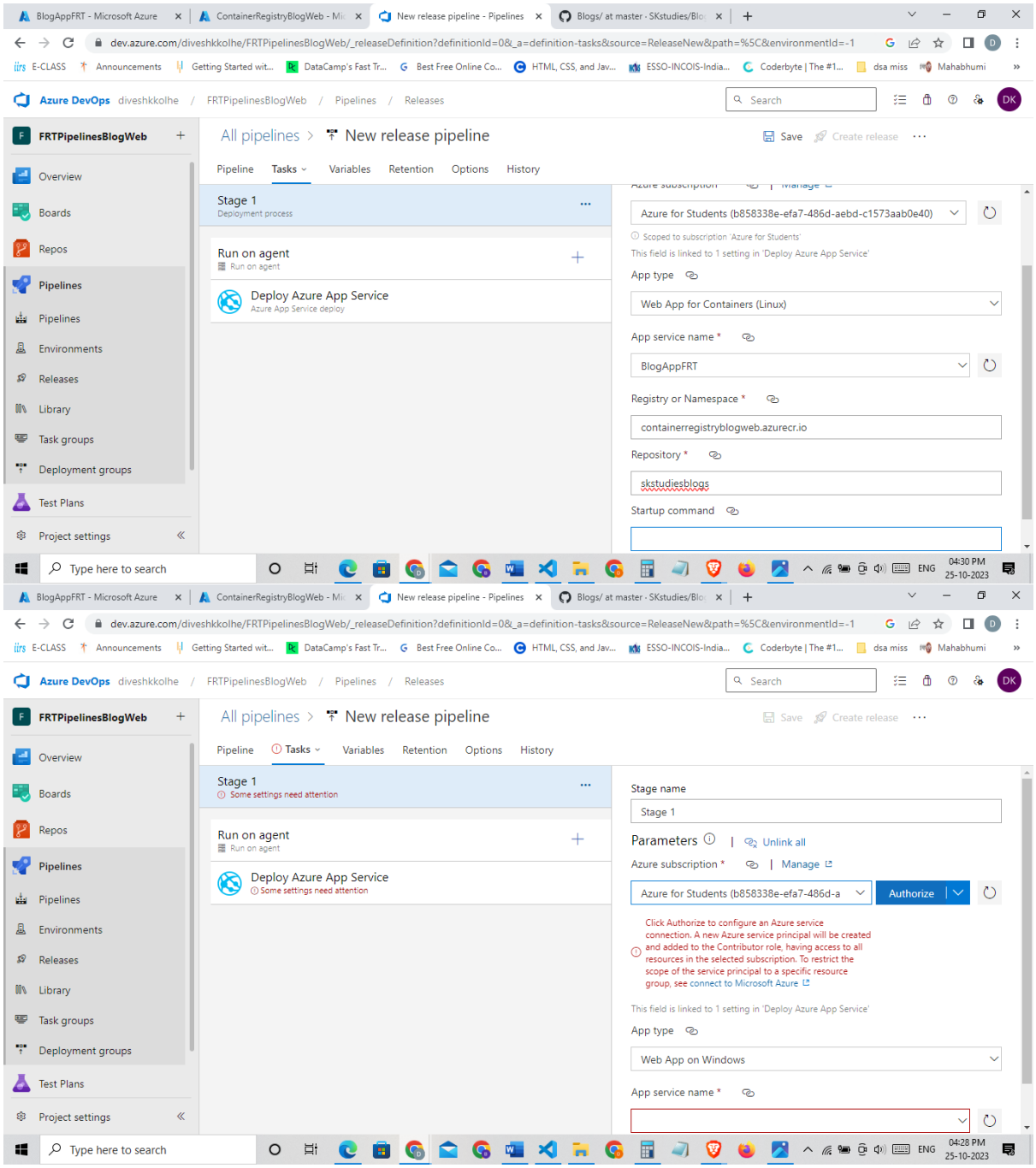
9. Create Release Pipeline.

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dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=definition-tasks&source=ReleaseNew&path=%5C&environmentId=-1
Azure DevOps
diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / Releases
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Stage 1
Deployment process
Run on agent
Run on agent
Deploy Azure App Service
Azure App Service deploy
Azure for Students (b858338e-efa7-486d-aebd-c1573aab0e40)
Scoped to subscription 'Azure for Students'
This field is linked to 1 setting in 'Deploy Azure App Service'
App type
Web App for Containers (Linux)
App service name *
BlogAppFRT
Registry or Namespace *
containerregistryblogweb.azurecr.io
Repository *
skstudiesblogs
Startup command
Type here to search
ENG
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ContainerRegistryBlogWeb - Mi
New release pipeline - Pipelines
Blogs/ at master · SKstudies/Blo
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=definition-tasks&source=ReleaseNew&path=%5C&environmentId=-1
Azure DevOps
diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / Releases
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Stage 1
Some settings need attention
Run on agent
Run on agent
Deploy Azure App Service
Some settings need attention
Stage name
Stage 1
Parameters
Unlink all
Azure subscription *
Manage
Azure for Students (b858338e-efa7-486d-a
Authorize
Click Authorize to configure an Azure service connection. A new Azure service principal will be created and added to the Contributor role, having access to all resources in the selected subscription. To restrict the scope of the service principal to a specific resource group, see connect to Microsoft Azure
This field is linked to 1 setting in 'Deploy Azure App Service'
App type
Web App on Windows
App service name *
Type here to search
ENG
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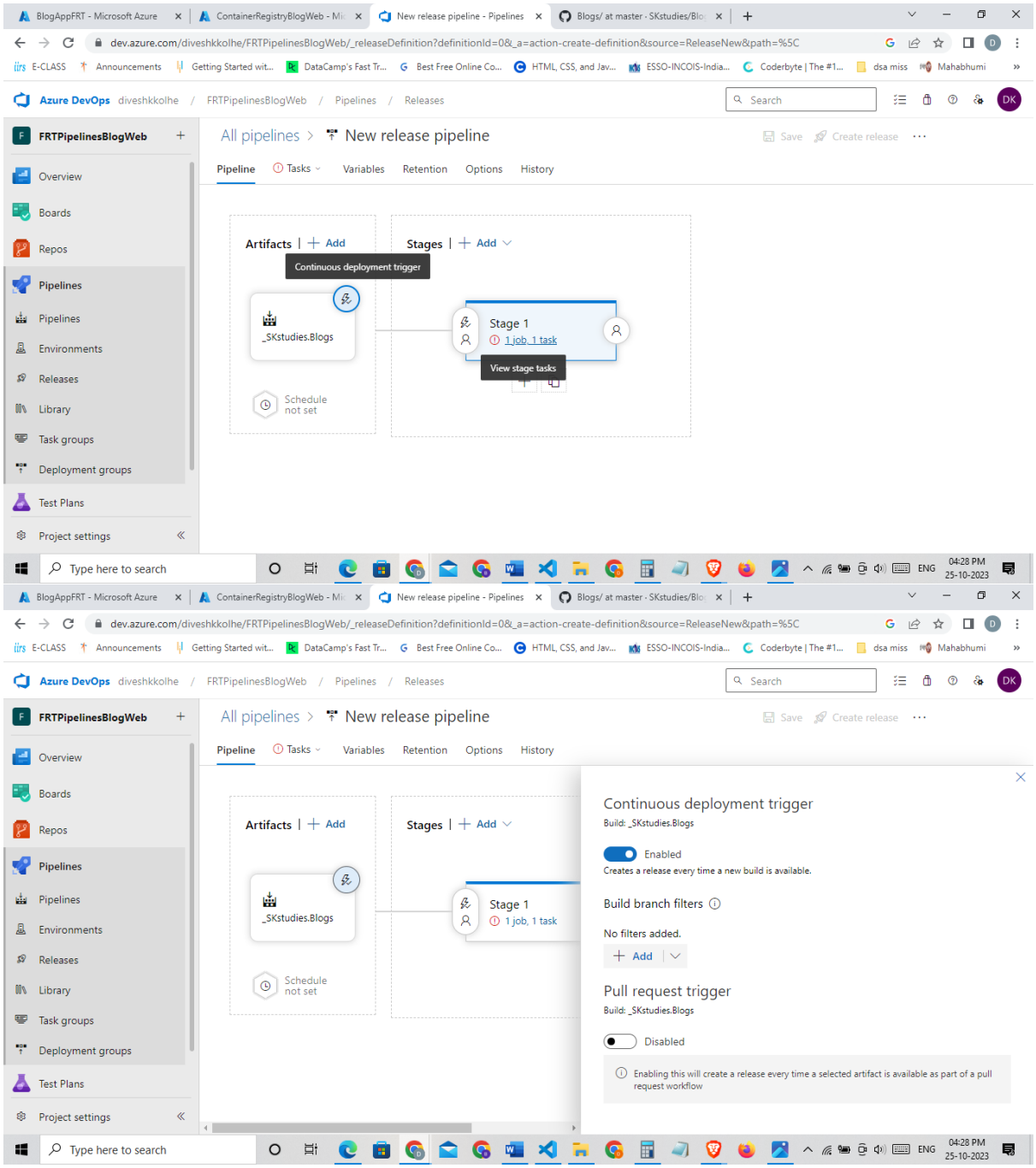
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ContainerRegistryBlogWeb - Mi
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dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=action-create-definition&source=ReleaseNew&path=%5C
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Continuous deployment trigger
_SKstudies.Blogs
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Stages | Add
Stage 1
1 job, 1 task
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dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=action-create-definition&source=ReleaseNew&path=%5C
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_SKstudies.Blogs
Schedule not set
Stages | Add
Stage 1
1 job, 1 task
Continuous deployment trigger
Build: _SKstudies.Blogs
Enabled
Creates a release every time a new build is available.
Build branch filters
No filters added.
Add
Pull request trigger
Build: _SKstudies.Blogs
Disabled
Enabling this will create a release every time a selected artifact is available as part of a pull request workflow
Type here to search
ENG
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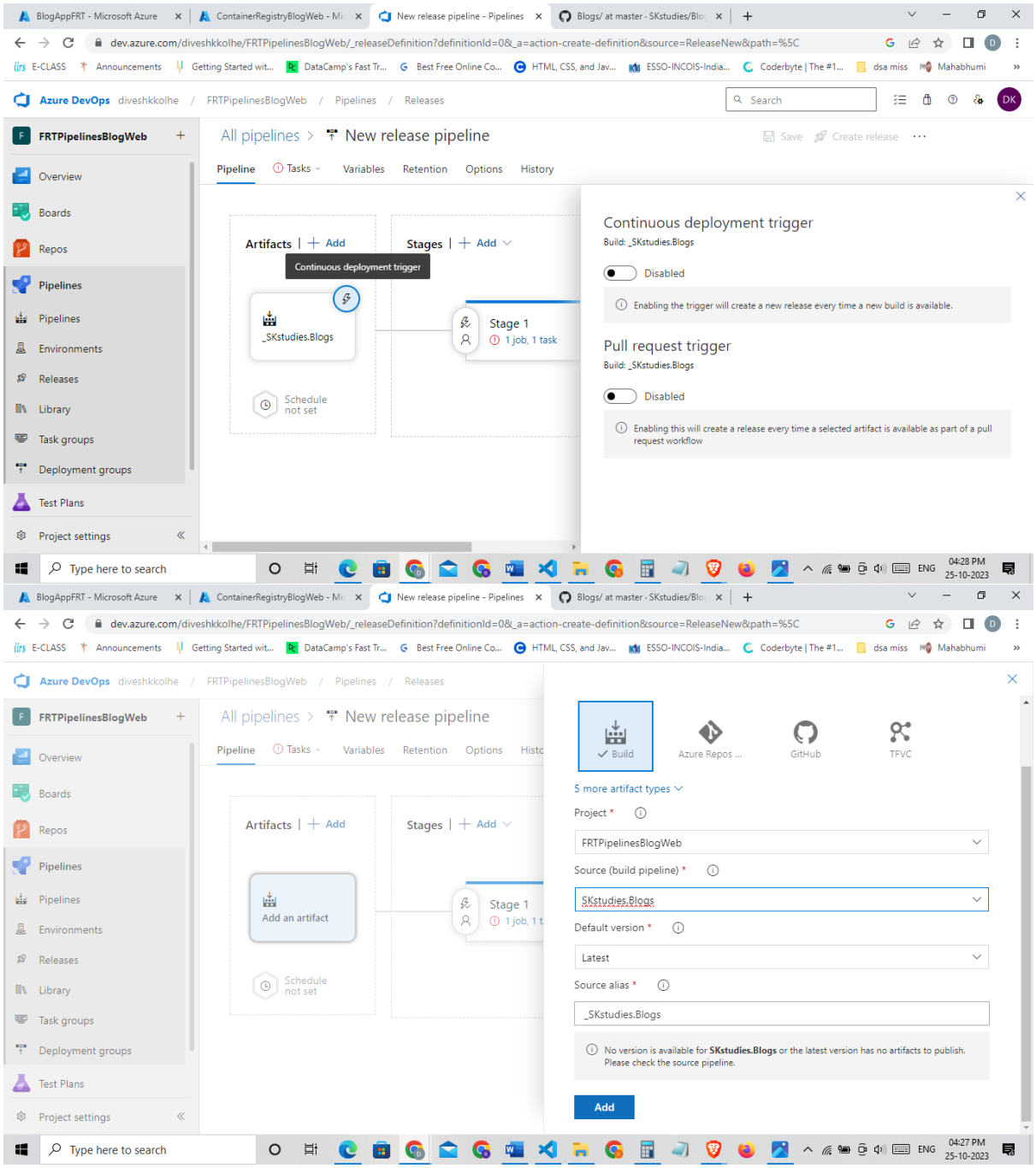
BlogAppFRT - Microsoft Azure
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dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=action-create-definition&source=ReleaseNew&path=%5C
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Artifacts | Add
Continuous deployment trigger
Stages | Add
_SKstudies.Blogs
Stage 1
1 job, 1 task
Schedule not set
Continuous deployment trigger
Build: _SKstudies.Blogs
Disabled
Enabling the trigger will create a new release every time a new build is available.
Pull request trigger
Build: _SKstudies.Blogs
Disabled
Enabling this will create a release every time a selected artifact is available as part of a pull request workflow
Type here to search
ENG
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ContainerRegistryBlogWeb - Mic
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dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=action-create-definition&source=ReleaseNew&path=%5C
Azure DevOps
diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / Releases
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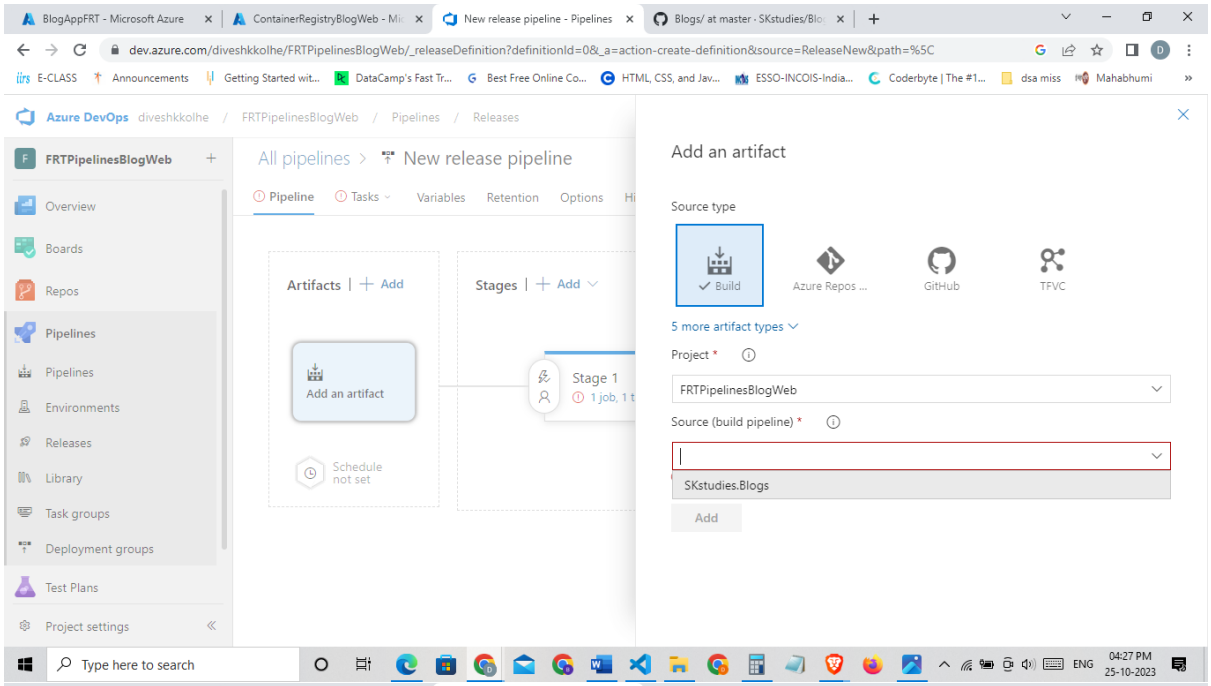
Stages | Add
Add an artifact
Stage 1
Schedule not set
Build
Azure Repos ...
GitHub
TFVC
5 more artifact types
Project *
FRTPipelinesBlogWeb
Source (build pipeline) *
SKstudies.Blogs
Default version *
Latest
Source alias *
_SKstudies.Blogs
No version is available for SKstudies.Blogs or the latest version has no artifacts to publish. Please check the source pipeline.
Add
Type here to search
ENG
04:27 PM
25-10-2023


BlogAppFRT - Microsoft Azure
ContainerRegistryBlogWeb - Mic
New release pipeline - Pipelines
Blogs/ at master · SKstudies/Blo
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=action-create-definition&source=ReleaseNew&path=%5C
Azure DevOps diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / Releases
FRTPipelinesBlogWeb
Overview
Boards
Repos
Pipelines
Pipelines
Environments
Releases
Library
Task groups
Deployment groups
Test Plans
Project settings
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Add an artifact
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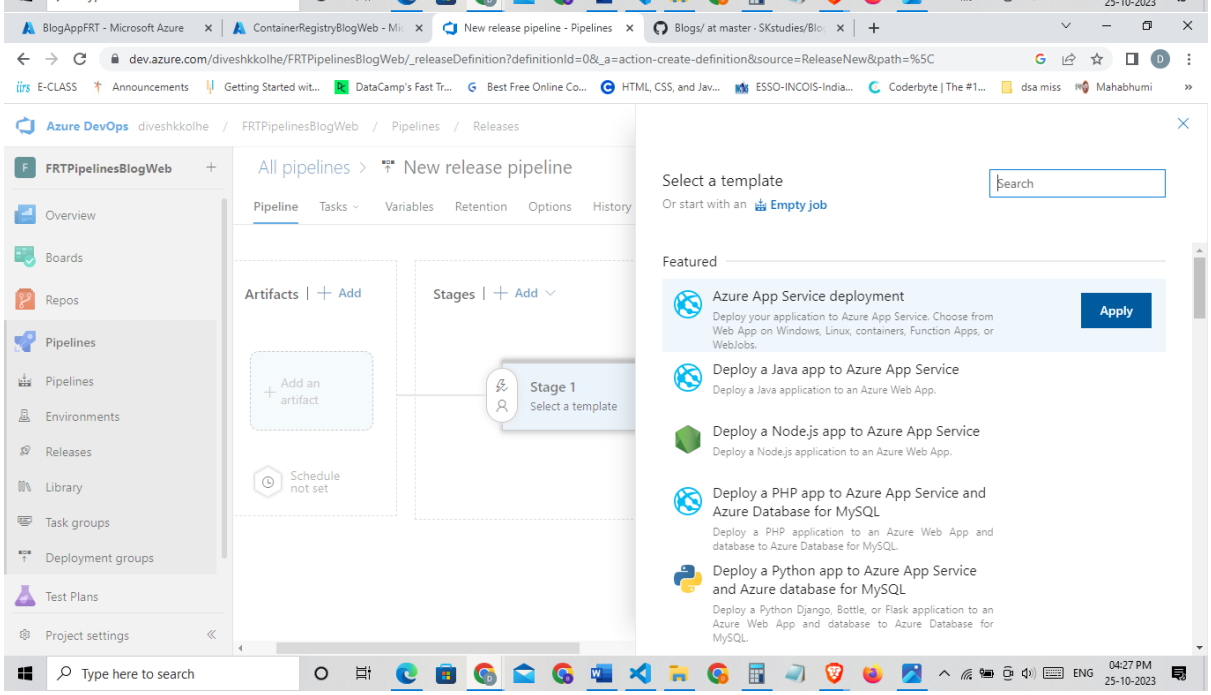
25-10-2023


BlogAppFRT - Microsoft Azure
ContainerRegistryBlogWeb - Mic
New release pipeline - Pipelines
Blogs/ at master · SKstudies/Blo
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseDefinition?definitionId=0&_a=action-create-definition&source=ReleaseNew&path=%5C
Azure DevOps diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / Releases
FRTPipelinesBlogWeb
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Pipeline
Tasks
Variables
Retention
Options
History
Artifacts | Add
Add an artifact
Schedule not set
Stages | Add
Stage 1
Select a template
Select a template
Search
Or start with an Empty job
Featured
Azure App Service deployment
Deploy your application to Azure App Service. Choose from Web App on Windows, Linux, containers, Function Apps, or WebJobs.
Apply
Deploy a Java app to Azure App Service
Deploy a Java application to an Azure Web App.
Deploy a Node.js app to Azure App Service
Deploy a Node.js application to an Azure Web App.
Deploy a PHP app to Azure App Service and Azure Database for MySQL
Deploy a PHP application to an Azure Web App and database to Azure Database for MySQL.
Deploy a Python app to Azure App Service and Azure database for MySQL
Deploy a Python Django, Bottle, or Flask application to an Azure Web App and database to Azure Database for MySQL.
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ENG
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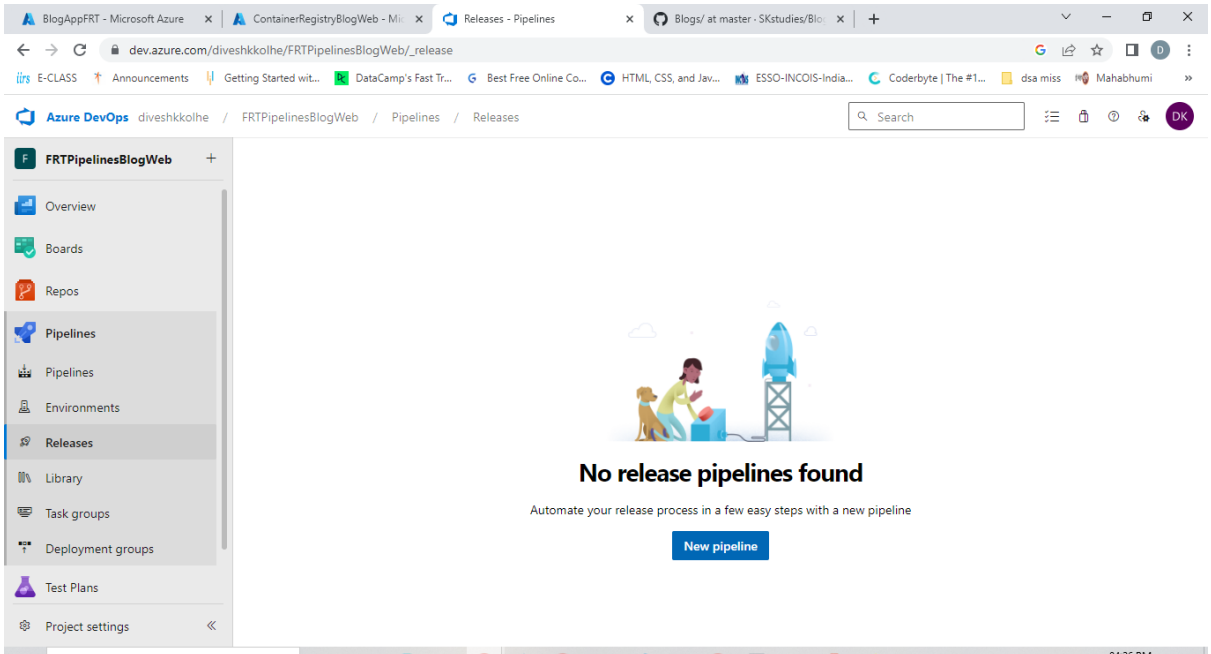
25-10-2023


BlogAppFRT - Microsoft Azure
ContainerRegistryBlogWeb - Mic
Releases - Pipelines
Blogs/ at master · SKstudies/Blo
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_release
Azure DevOps diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / Releases
Search
FRTPipelinesBlogWeb
Overview
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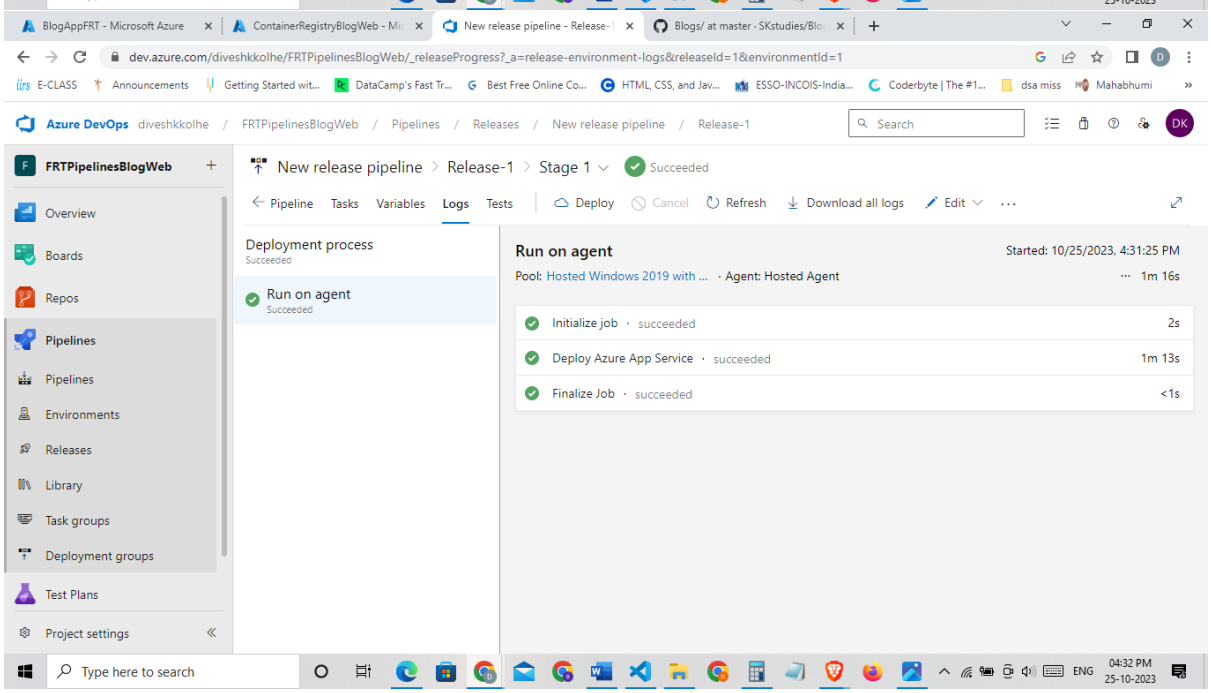
Pipelines
Pipelines
Environments
Releases
Library
Task groups
Deployment groups
Test Plans
Project settings
No release pipelines found
Automate your release process in a few easy steps with a new pipeline
New pipeline
Type here to search
ENG
04:26 PM
25-10-2023


BlogAppFRT - Microsoft Azure
ContainerRegistryBlogWeb - Mic
New release pipeline - Release-1
Blogs/ at master · SKstudies/Blo
dev.azure.com/diveshkkolhe/FRTPipelinesBlogWeb/_releaseProgress?_a=release-environment-logs&releaseId=1&environmentId=1
Azure DevOps diveshkkolhe / FRTPipelinesBlogWeb / Pipelines / Releases / New release pipeline / Release-1
Search
FRTPipelinesBlogWeb
Overview
Boards
Repos
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Pipelines
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Releases
Library
Task groups
Deployment groups
Test Plans
Project settings
New release pipeline > Release-1 > Stage 1
Succeeded
Pipeline
Tasks
Variables
Logs
Tests
Deploy
Cancel
Refresh
Download all logs
Edit
Deployment process
Succeeded
Run on agent
Succeeded
Run on agent
Started: 10/25/2023, 4:31:25 PM
Pool: Hosted Windows 2019 with ... · Agent: Hosted Agent
1m 16s
Initialize job · succeeded 2s
Deploy Azure App Service · succeeded 1m 13s
Finalize Job · succeeded <1s
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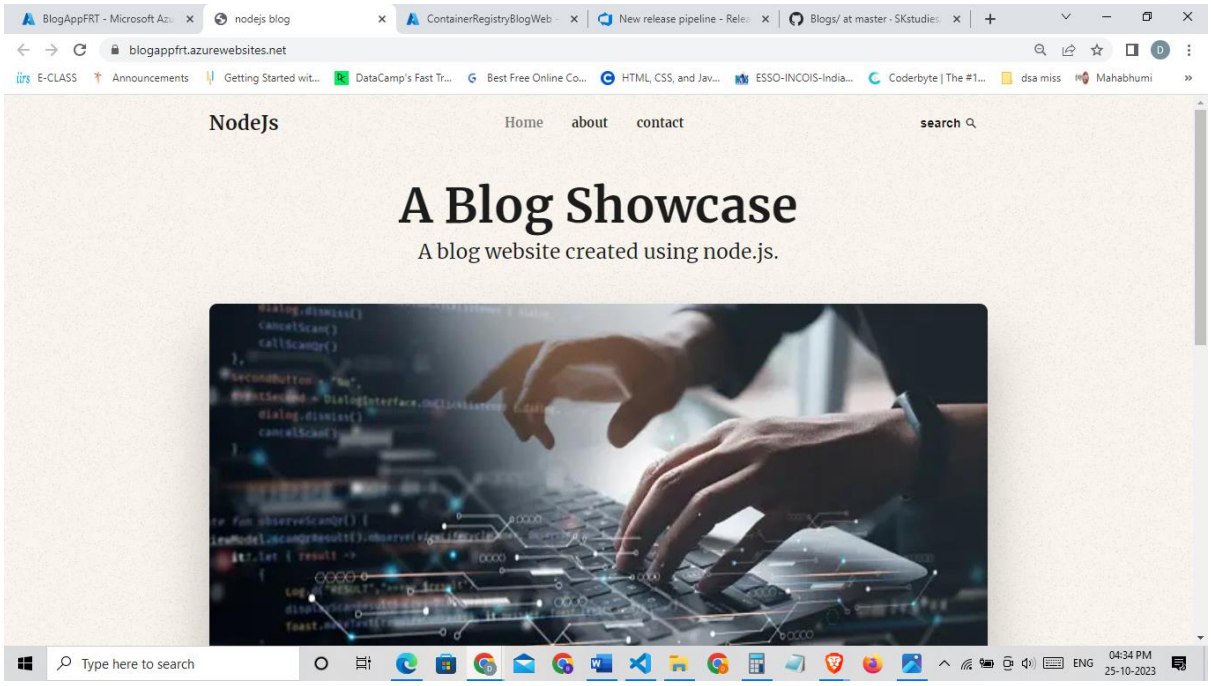
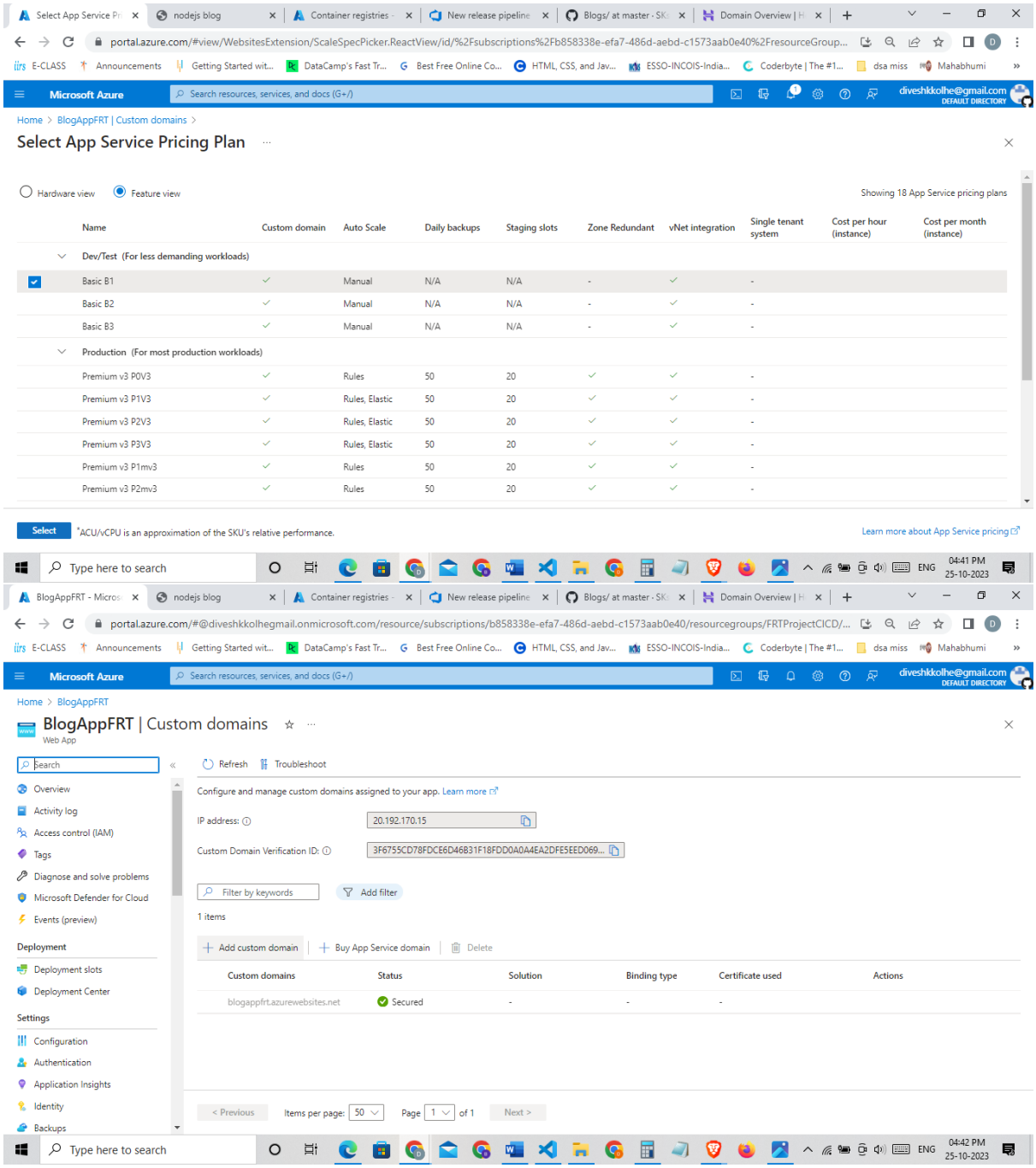
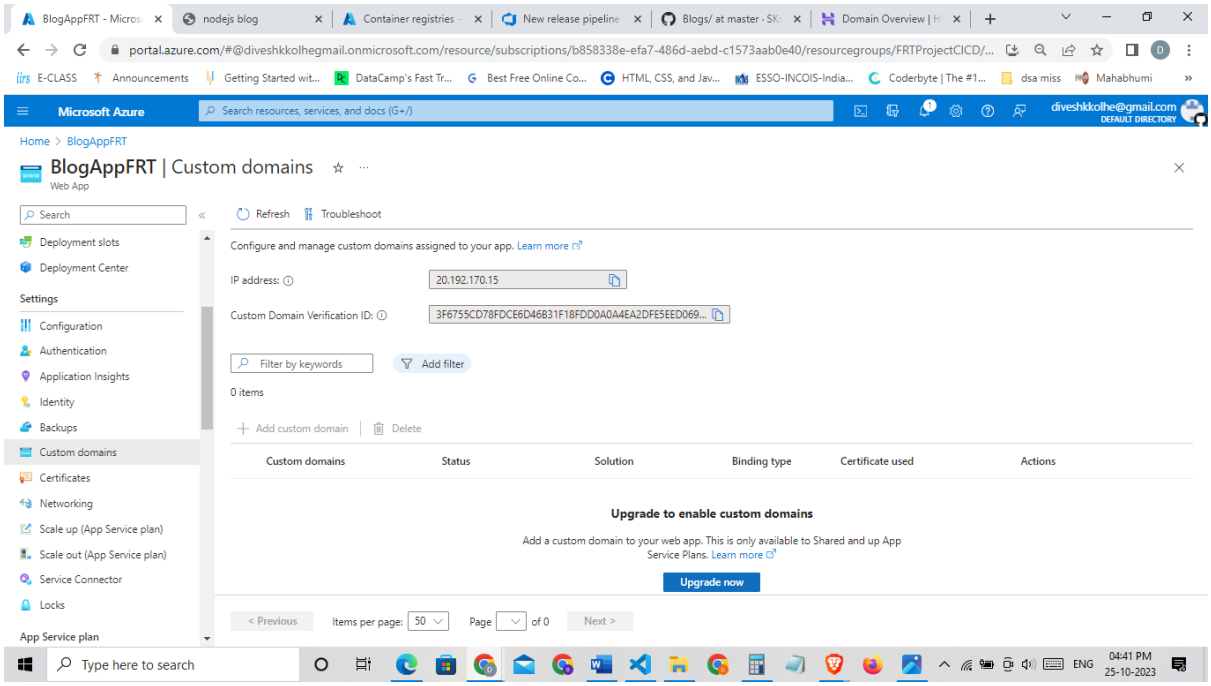
10. Search Default Domain Webiste Is Running.



11. Create Custom Domain Scale Up The Plan AS Free Plan Does Not Support Custom Domain.




BlogAppFRT - Micros
nodejs blog
Container registries -
New release pipeline
Blogs/ at master - SK
Domain Overview | H
portal.azure.com/#@diveshkkolhegmail.onmicrosoft.com/resource/subscriptions/b858338e-efa7-486d-aebd-c1573aab0e40/resourcegroups/FRTProjectCICD/...
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HTML, CSS, and Jav...
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Coderbyte | The #1...
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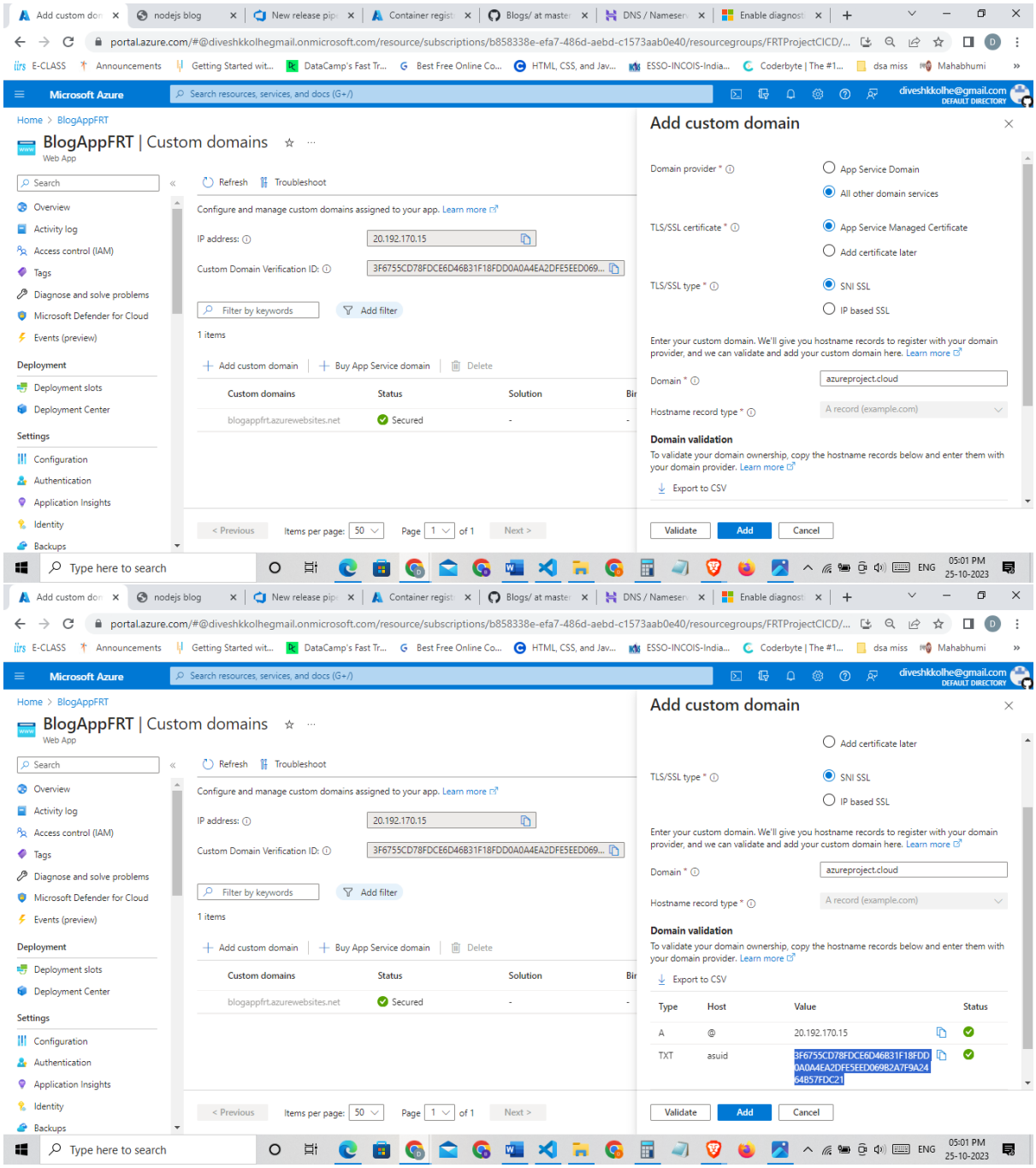
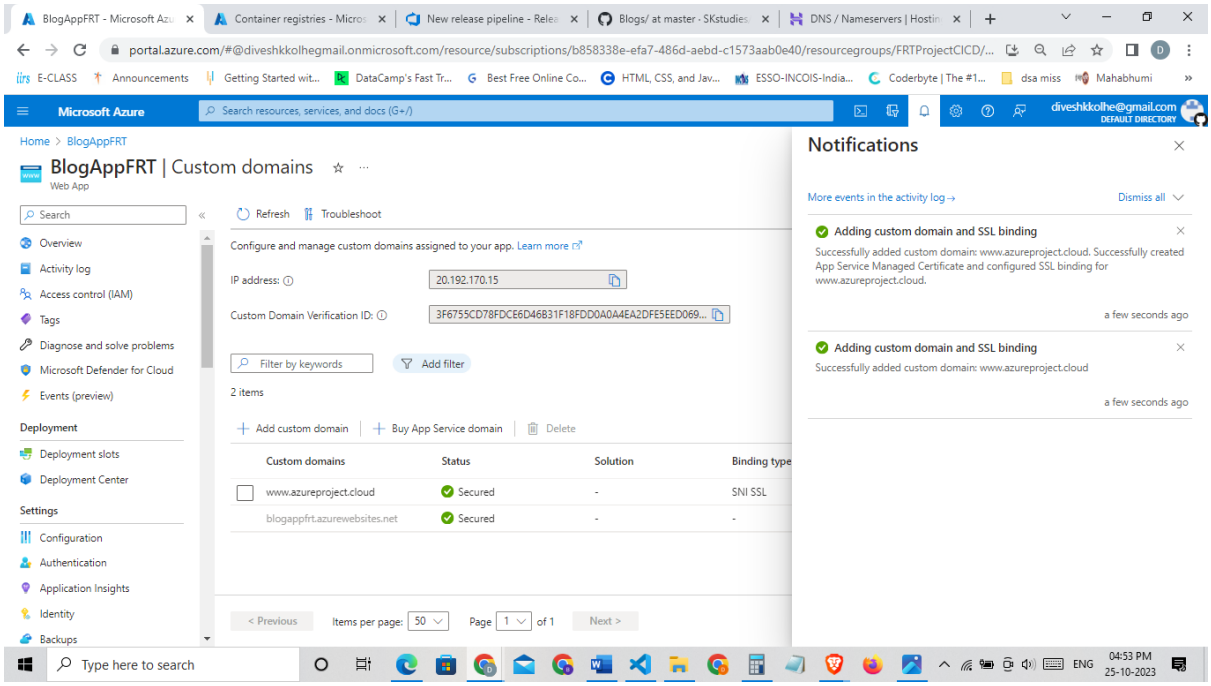
Mahabhumi
Microsoft Azure
Search resources, services, and docs (G+/)
diveshkkolhe@gmail.com
DEFAULT DIRECTORY
Home > BlogAppFRT
BlogAppFRT | Custom domains
Web App
Search
Deployment slots
Deployment Center
Settings
Configuration
Authentication
Application Insights
Identity
Backups
Custom domains
Certificates
Networking
Scale up (App Service plan)
Scale out (App Service plan)
Service Connector
Locks
App Service plan
Refresh
Troubleshoot
Configure and manage custom domains assigned to your app. Learn more
IP address:
20.192.170.15
Custom Domain Verification ID:
3F6755CD78FDCE6D46B31F18FDD0A0A4EA2DFE5EED069...
Filter by keywords
Add filter
0 items
Add custom domain
Delete
Custom domains
Status
Solution
Binding type
Certificate used
Actions
Upgrade to enable custom domains
Add a custom domain to your web app. This is only available to Shared and up App Service Plans. Learn more
Upgrade now
< Previous
Items per page:
50
Page
of 0
Next >
Type here to search
ENG
04:41 PM
25-10-2023

12. Add A Custom Domain With App Service Managed Certificate.




BlogAppFRT - Microsoft Az
Container registries - Micro
New release pipeline - Relea
Blogs/ at master · SKstudies
DNS / Nameservers | Hostin
portal.azure.com/#@diveshkkolhegmail.onmicrosoft.com/resource/subscriptions/b858338e-efa7-486d-aebd-c1573aab0e40/resourcegroups/FRTProjectCICD/...
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HTML, CSS, and Jav...
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Mahabhumi
Microsoft Azure
Search resources, services, and docs (G+/)
diveshkkolhe@gmail.com
DEFAULT DIRECTORY
Home > BlogAppFRT
BlogAppFRT | Custom domains
Web App
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Microsoft Defender for Cloud
Events (preview)
Deployment
Deployment slots
Deployment Center
Settings
Configuration
Authentication
Application Insights
Identity
Backups
Refresh
Troubleshoot
Configure and manage custom domains assigned to your app. Learn more
IP address:
20.192.170.15
Custom Domain Verification ID:
3F6755CD78FDCE6D46B31F18FDD0A0A4EA2DFE5EED069...
Filter by keywords
Add filter
2 items
Add custom domain
Buy App Service domain
Delete
Custom domains
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Binding type
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Secured
< Previous
Items per page: 50
Page 1 of 1
Next >
Notifications
More events in the activity log →
Dismiss all
Adding custom domain and SSL binding
Successfully added custom domain: www.azureproject.cloud. Successfully created App Service Managed Certificate and configured SSL binding for www.azureproject.cloud.
a few seconds ago
Adding custom domain and SSL binding
Successfully added custom domain: www.azureproject.cloud
a few seconds ago
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ENG
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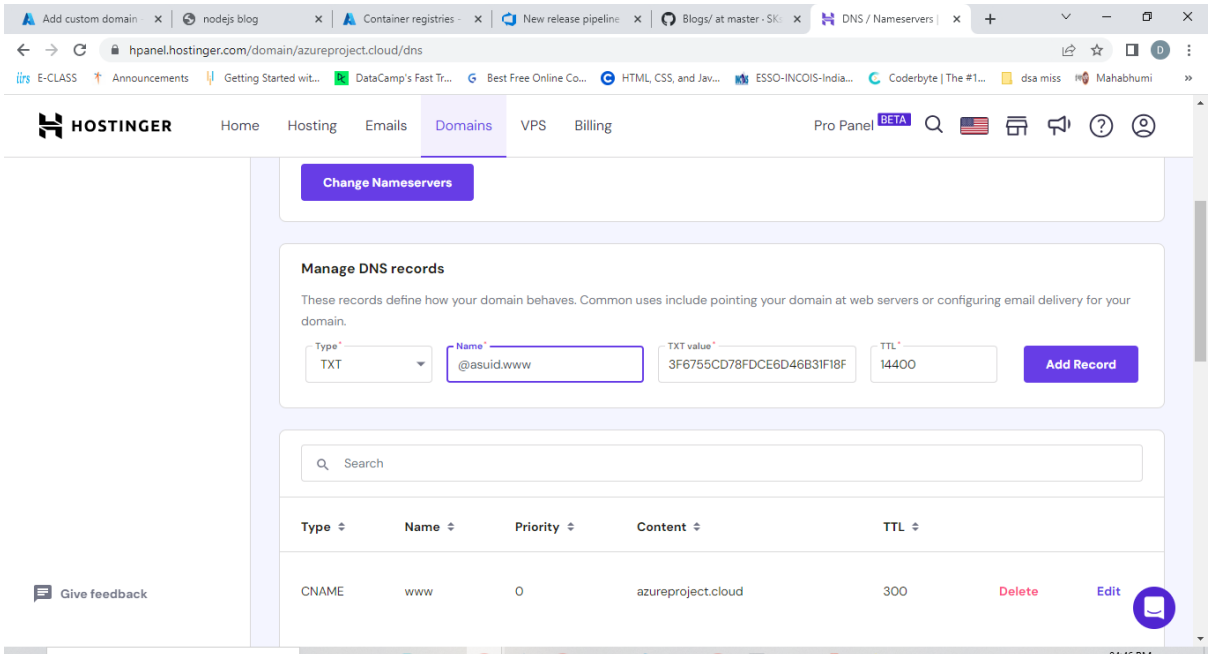
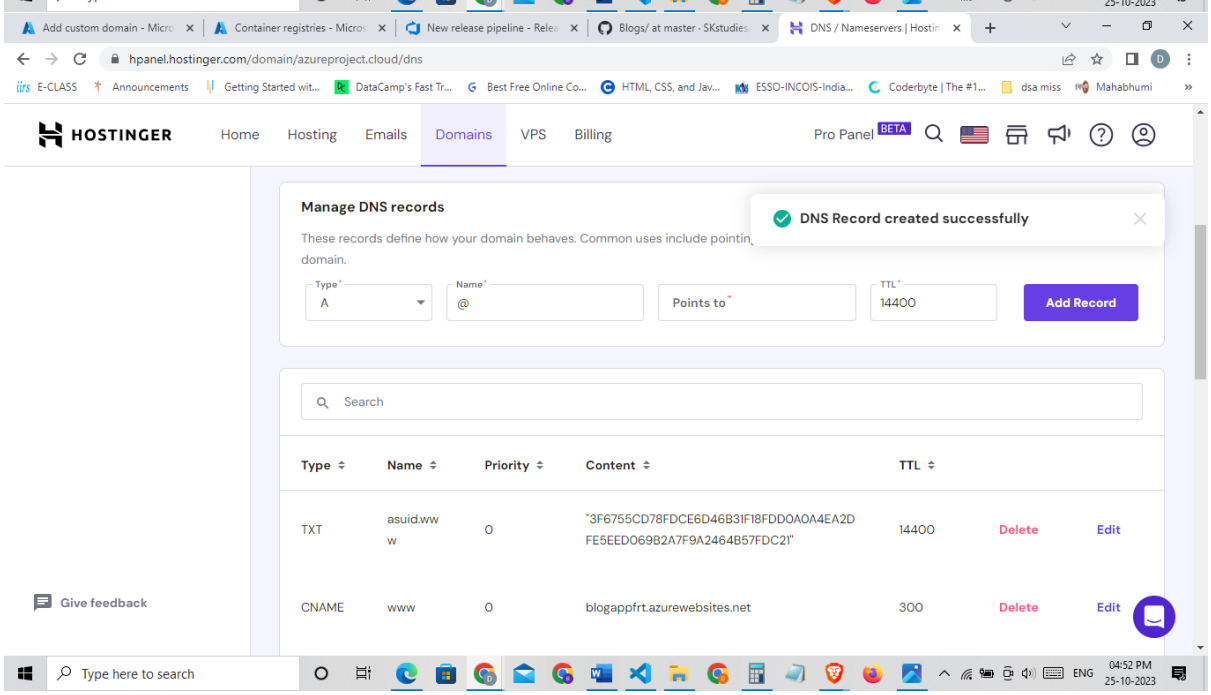
25-10-2023


Add custom domain
nodejs blog
Container registries
New release pipeline
Blogs/ at master - SK
DNS / Nameservers
hpanel.hostinger.com/domain/azureproject.cloud/dns
HOSTINGER
Home
Hosting
Emails
Domains
VPS
Billing
Pro Panel
BETA
Change Nameservers
Manage DNS records
These records define how your domain behaves. Common uses include pointing your domain at web servers or configuring email delivery for your domain.
Type
TXT
Name
@asuid.www
TXT value
3F6755CD78FDCE6D46B31F18F
TTL
14400
Add Record
Search
Type
Name
Priority
Content
TTL
CNAME
www
0
azureproject.cloud
300
Delete
Edit
Give feedback
Type here to search
ENG
04:46 PM
25-10-2023


Add custom domain - Micro
Container registries - Micros
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Blogs/ at master - SKstudies
DNS / Nameservers | Hostin
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HOSTINGER
Home
Hosting
Emails
Domains
VPS
Billing
Pro Panel
BETA
Manage DNS records
DNS Record created successfully
These records define how your domain behaves. Common uses include pointin
domain.
Type
A
Name
@
Points to
TTL
14400
Add Record
Search
Type
Name
Priority
Content
TTL
TXT
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"3F6755CD78FDCE6D46B31F18FDD0A0A4EA2D
FE5EED069B2A7F9A2464B57FDC21"
14400
Delete
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CNAME
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Give feedback
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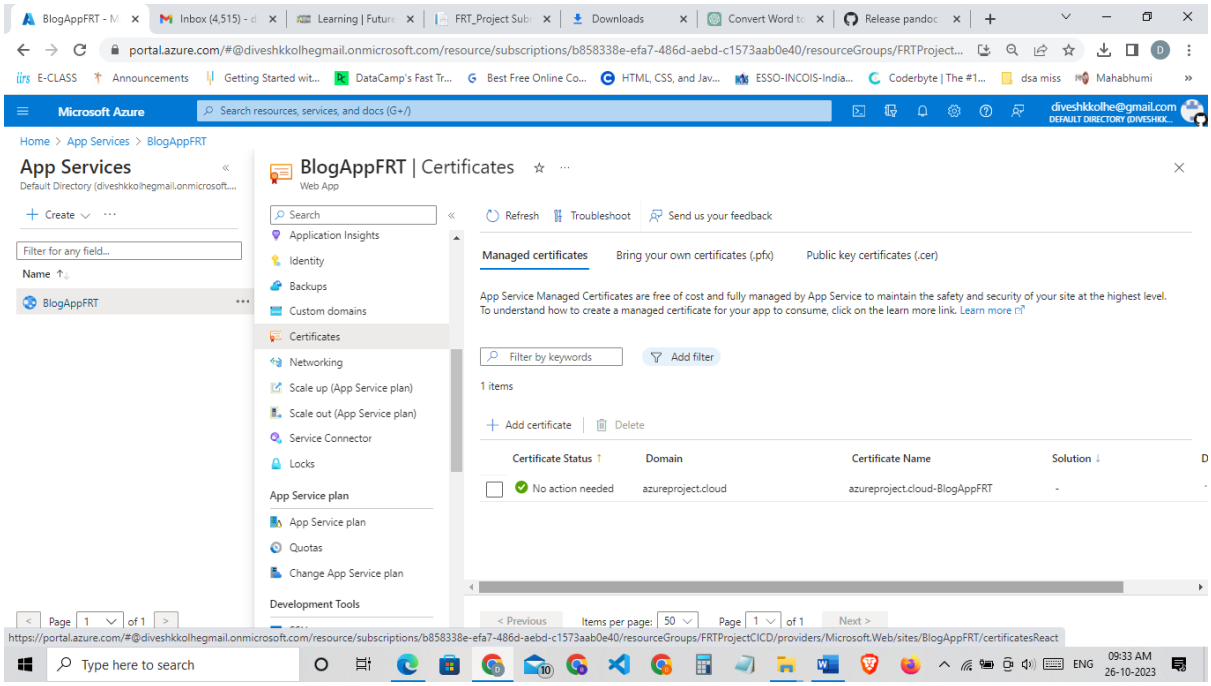
25-10-2023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Inbox (4,515) - d
Learning | Future
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Downloads
Convert Word to
Release pandoc
portal.azure.com/#@diveshkkolhegmail.onmicrosoft.com/resource/subscriptions/b858338e-efa7-486d-aebd-c1573aab0e40/resourceGroups/FRTProject...
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ESSO-INCOIS-India...
Coderbyte | The #1...
dsa miss
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DEFAULT DIRECTORY (DIVESHKK...
Home > App Services > BlogAppFRT
App Services
Default Directory (diveshkkolhegmail.onmicrosoft....
Create
Filter for any field...
Name
BlogAppFRT
Page 1 of 1
BlogAppFRT | Certificates
Web App
Search
Application Insights
Identity
Backups
Custom domains
Certificates
Networking
Scale up (App Service plan)
Scale out (App Service plan)
Service Connector
Locks
App Service plan
App Service plan
Quotas
Change App Service plan
Development Tools
Refresh
Troubleshoot
Send us your feedback
Managed certificates
Bring your own certificates (.pfx)
Public key certificates (.cer)
App Service Managed Certificates are free of cost and fully managed by App Service to maintain the safety and security of your site at the highest level.
To understand how to create a managed certificate for your app to consume, click on the learn more link. Learn more
Filter by keywords
Add filter
1 items
Add certificate
Delete
Certificate Status
Domain
Certificate Name
Solution
No action needed
azureproject.cloud
azureproject.cloud-BlogAppFRT
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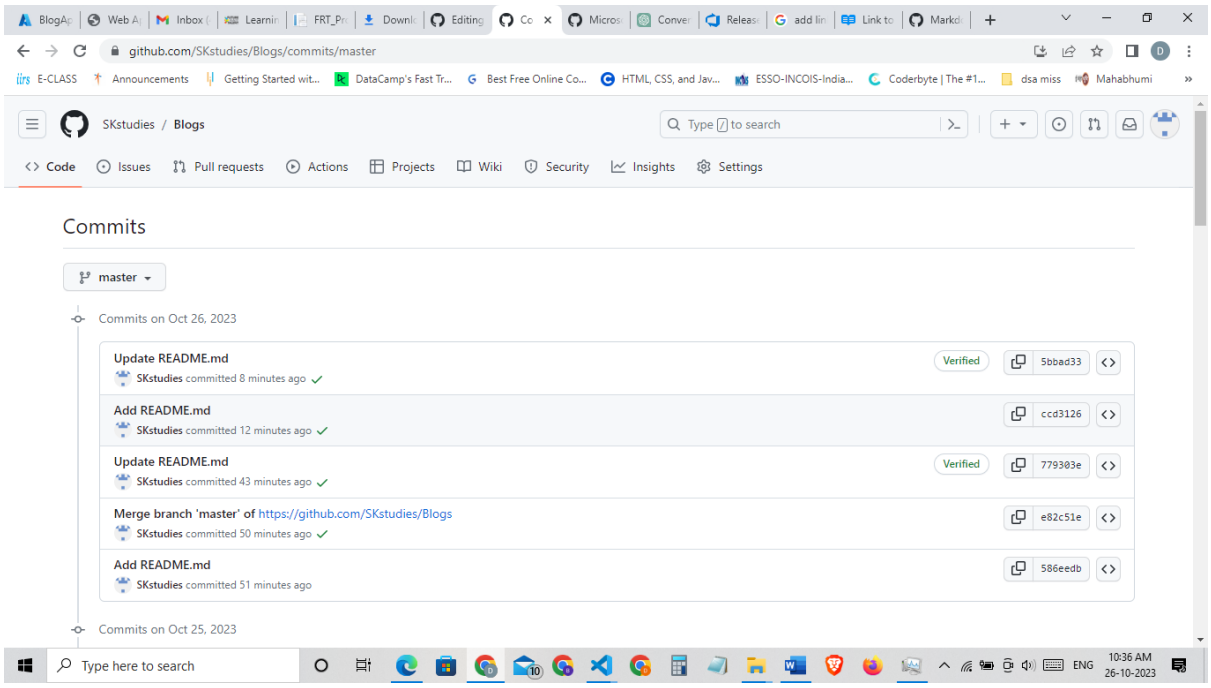
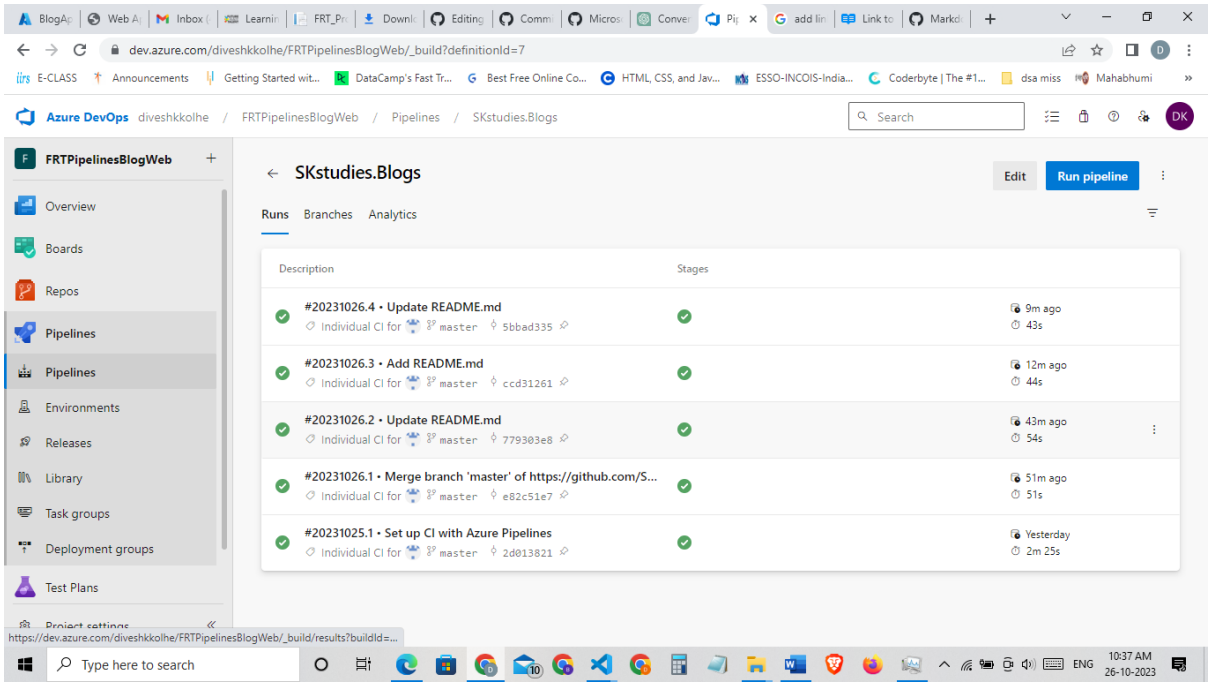
26-10-2023

CICD pipeline in action

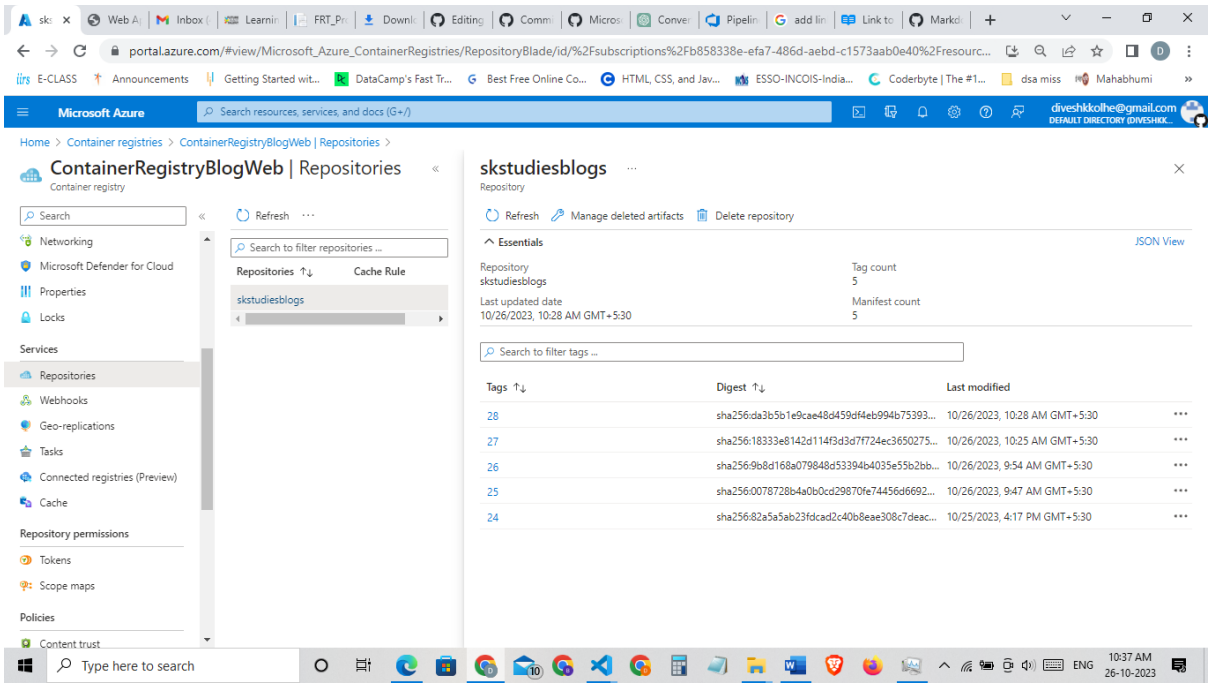
13. Commit Changes To github.



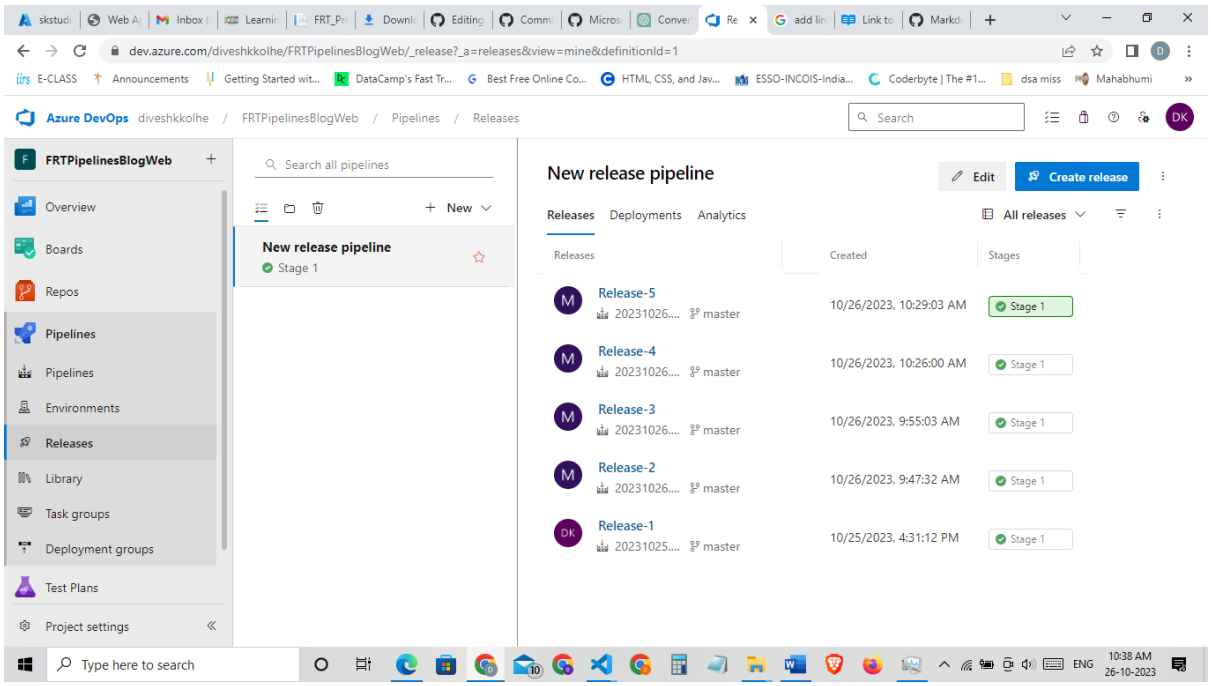
14. Build Pipline Triggered.



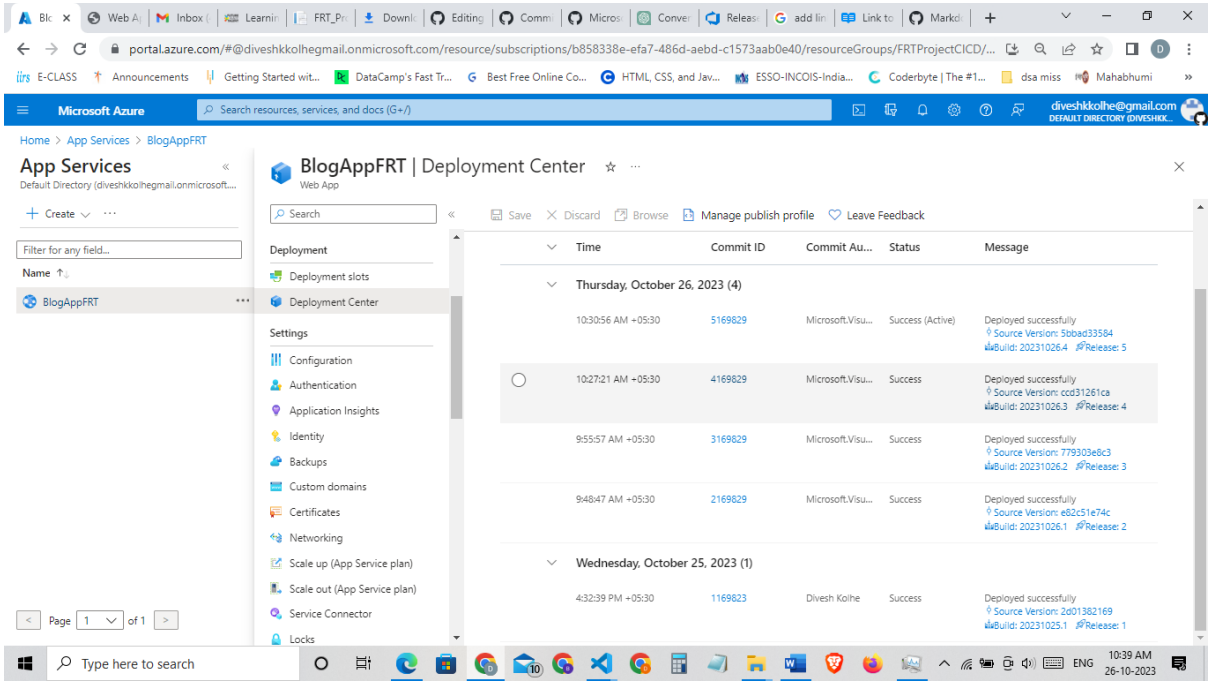
15. Containers Created In ACR.



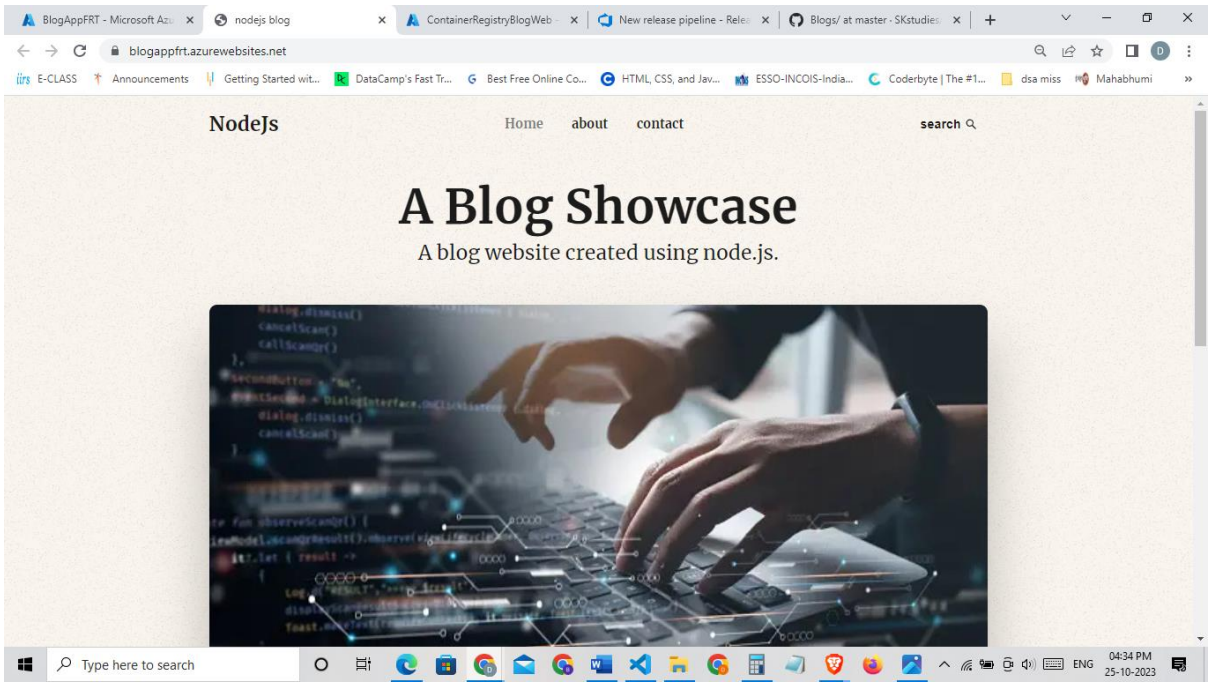
16. Release Pipeline Triggered.



17. Successful Deployment On App Service.



18. Site is Running



Future Scope:

The future scope of your project can be extended to include additional Azure services such as Cosmos DB, Azure Front Door, and Azure Content Delivery Network (CDN) to further enhance and optimize your web application deployment and delivery. Here's how you can integrate these services:

1. Cosmos DB Integration:

Database Layer Optimization: Integrate Azure Cosmos DB as a globally distributed, highly available, and scalable database solution. This is particularly useful if your web application requires a database for data storage. Cosmos DB can enhance data scalability, redundancy, and global availability.

Microservices Architecture: Implement a microservices architecture and use Cosmos DB to store and manage data for each microservice.

2. Azure Front Door:

Global Load Balancing and Security: Azure Front Door can be employed to improve global load balancing, increase application security, and enhance content delivery to users across the world. It offers features such as WAF (Web Application Firewall), DDoS protection, and SSL offloading.

Application Acceleration: Use Azure Front Door to accelerate the delivery of your web application by routing user requests to the nearest, most responsive backend service.

3. Azure CDN Integration:

Content Distribution: Azure CDN can be used to deliver static content such as images, videos, and large files to users efficiently. It reduces the load on your App Service and improves the user experience by minimizing latency.

Global Scalability: Azure CDN caches content in edge locations around the world, ensuring low latency and high availability for users globally.