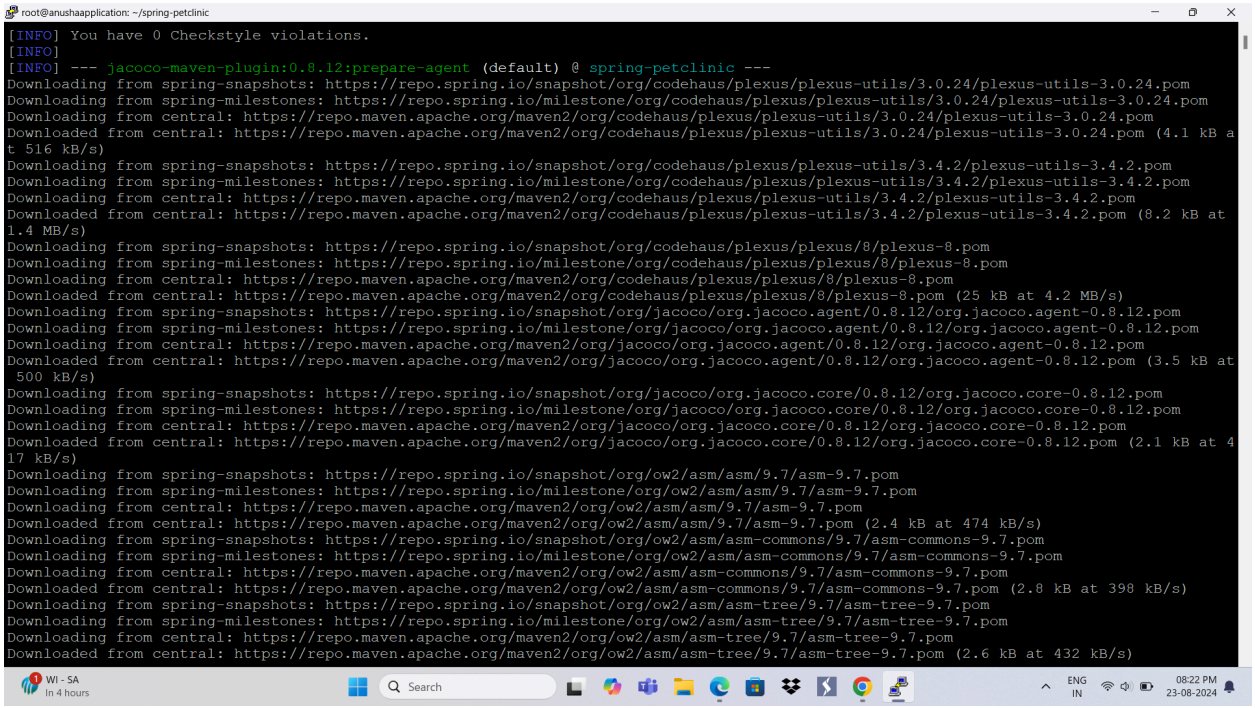
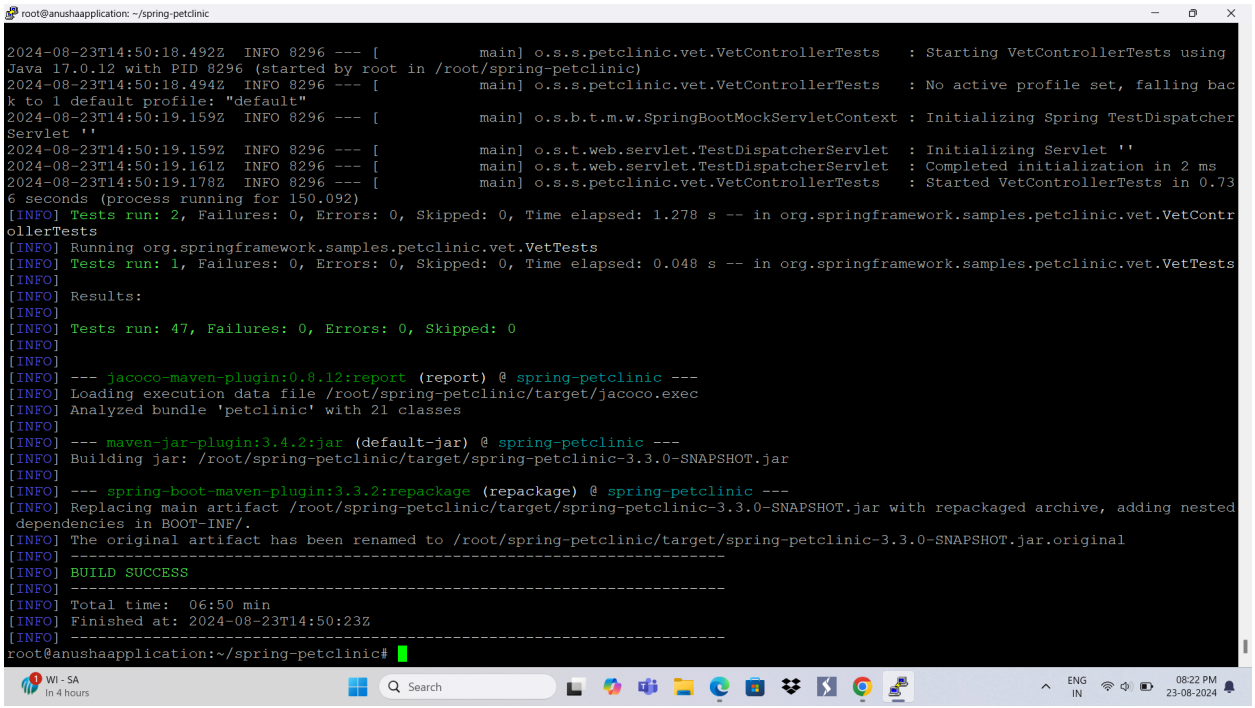
Deploying a Java Spring Boot Application in Azure Kubernetes Service(AKS)




root@anushaapplication: ~/spring-petclinic
2024-08-23T14:50:18.492Z INFO 8296 --- [main] o.s.s.petclinic.vet.VetControllerTests : Starting VetControllerTests using Java 17.0.12 with PID 8296 (started by root in /root/spring-petclinic)
2024-08-23T14:50:18.494Z INFO 8296 --- [main] o.s.s.petclinic.vet.VetControllerTests : No active profile set, falling back to 1 default profile: "default"
2024-08-23T14:50:19.159Z INFO 8296 --- [main] o.s.b.t.m.w.SpringBootMockServletContext : Initializing Spring TestDispatcherServlet ''
2024-08-23T14:50:19.159Z INFO 8296 --- [main] o.s.t.web.servlet.TestDispatcherServlet : Initializing Servlet ''
2024-08-23T14:50:19.161Z INFO 8296 --- [main] o.s.t.web.servlet.TestDispatcherServlet : Completed initialization in 2 ms
2024-08-23T14:50:19.178Z INFO 8296 --- [main] o.s.s.petclinic.vet.VetControllerTests : Started VetControllerTests in 0.736 seconds (process running for 150.092)
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.278 s -- in org.springframework.samples.petclinic.vet.VetControllerTests
[INFO] Running org.springframework.samples.petclinic.vet.VetTests
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.048 s -- in org.springframework.samples.petclinic.vet.VetTests
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 47, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- jacoco-maven-plugin:0.8.12:report (report) @ spring-petclinic ---
[INFO] Loading execution data file /root/spring-petclinic/target/jacoco.exec
[INFO] Analyzed bundle 'petclinic' with 21 classes
[INFO]
[INFO] --- maven-jar-plugin:3.4.2:jar (default-jar) @ spring-petclinic ---
[INFO] Building jar: /root/spring-petclinic/target/spring-petclinic-3.3.0-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:3.3.2:repackage (repackage) @ spring-petclinic ---
[INFO] Replacing main artifact /root/spring-petclinic/target/spring-petclinic-3.3.0-SNAPSHOT.jar with repackaged archive, adding nested dependencies in BOOT-INF/.
[INFO] The original artifact has been renamed to /root/spring-petclinic/target/spring-petclinic-3.3.0-SNAPSHOT.jar.original
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 06:50 min
[INFO] Finished at: 2024-08-23T14:50:23Z
[INFO] --
root@anushaapplication:~/spring-petclinic#
WI - SA
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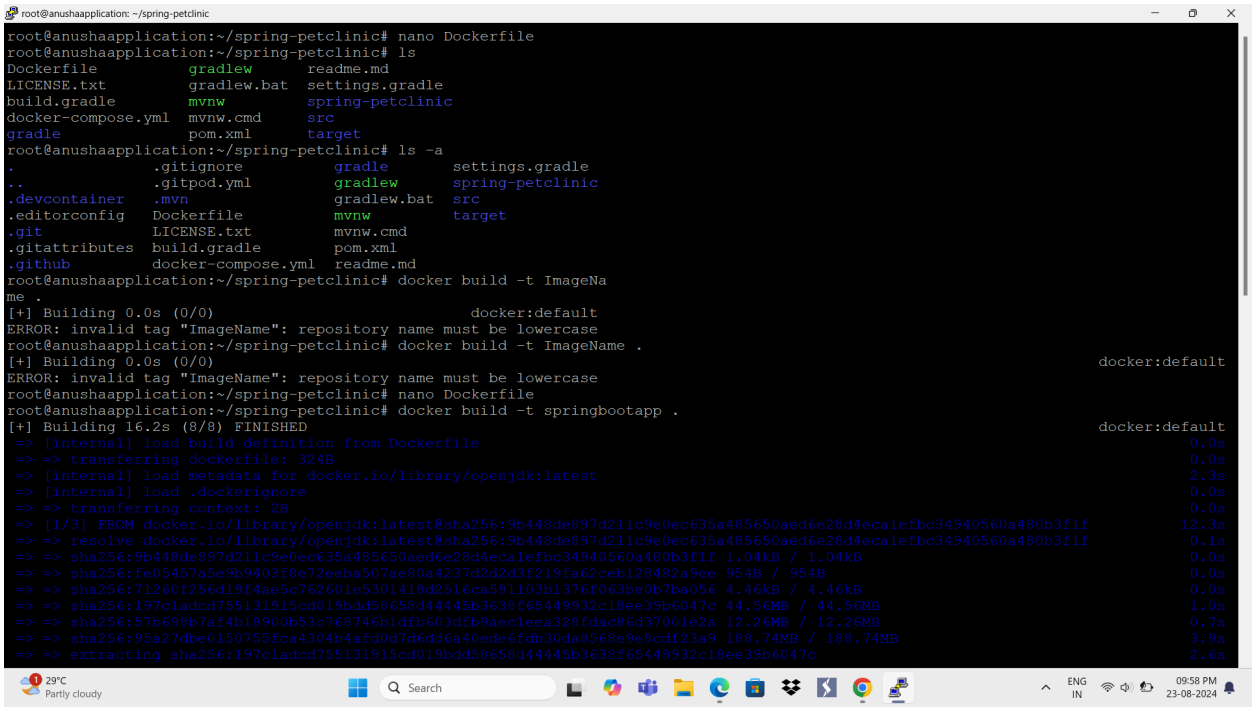
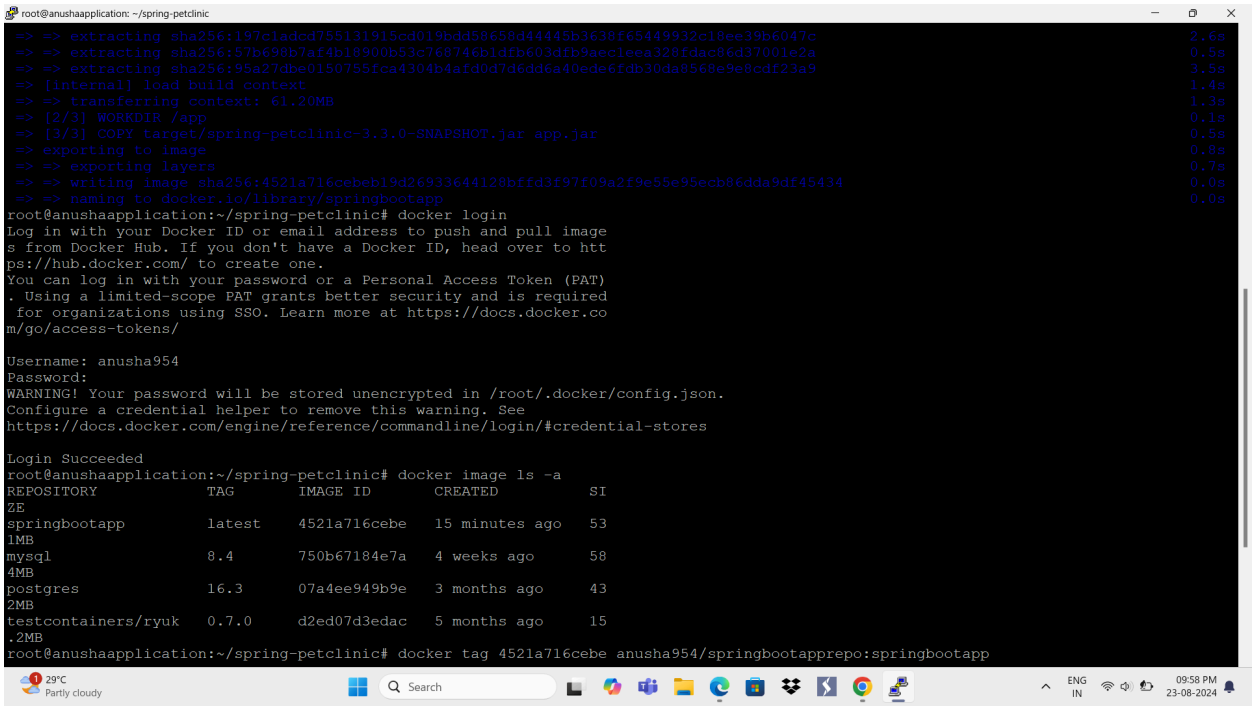
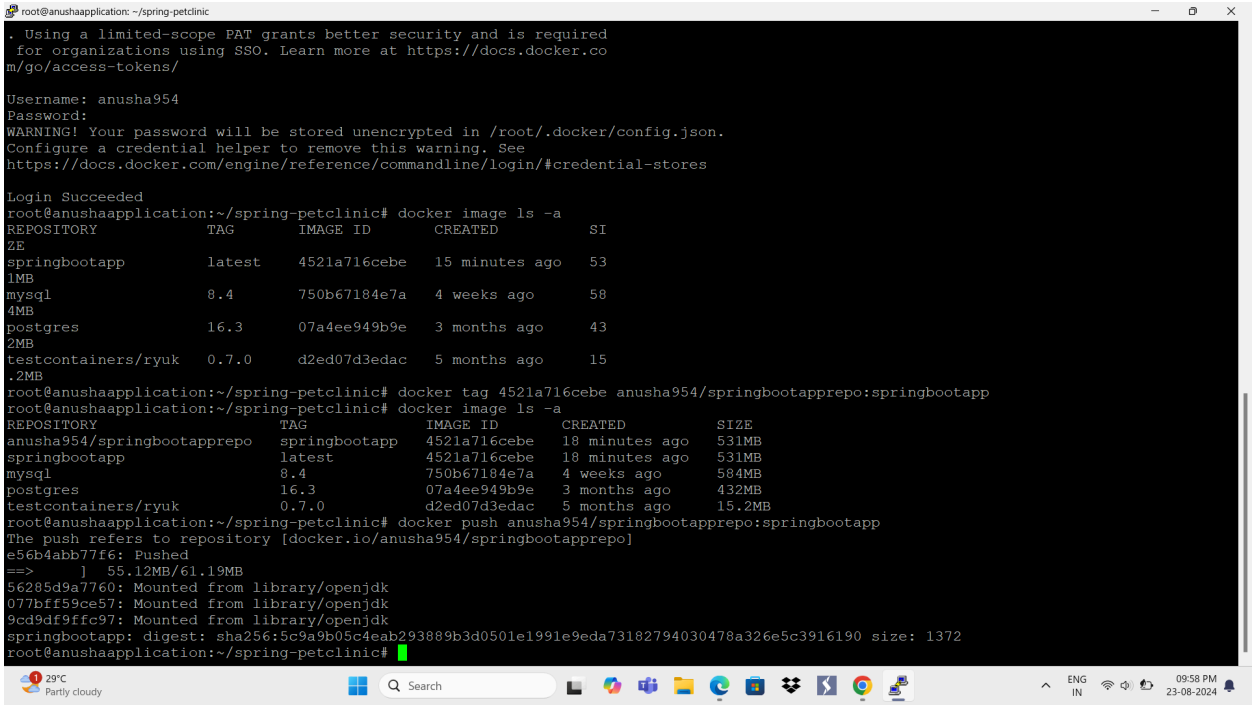
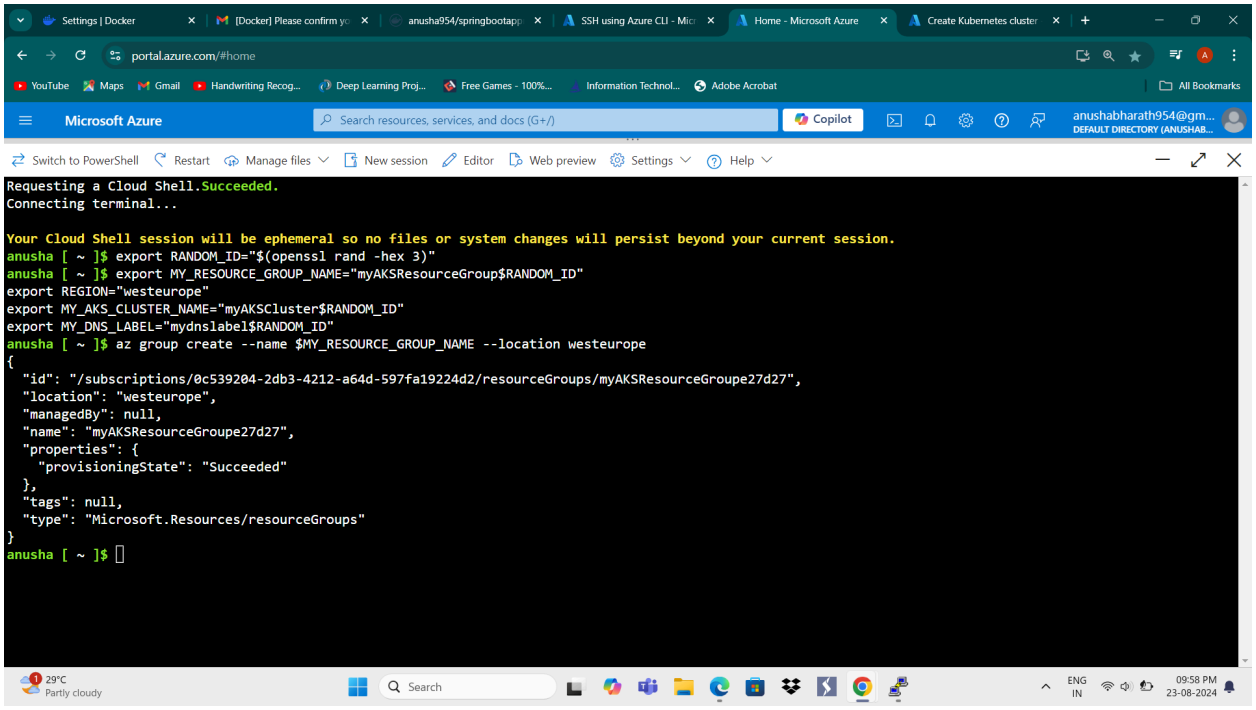
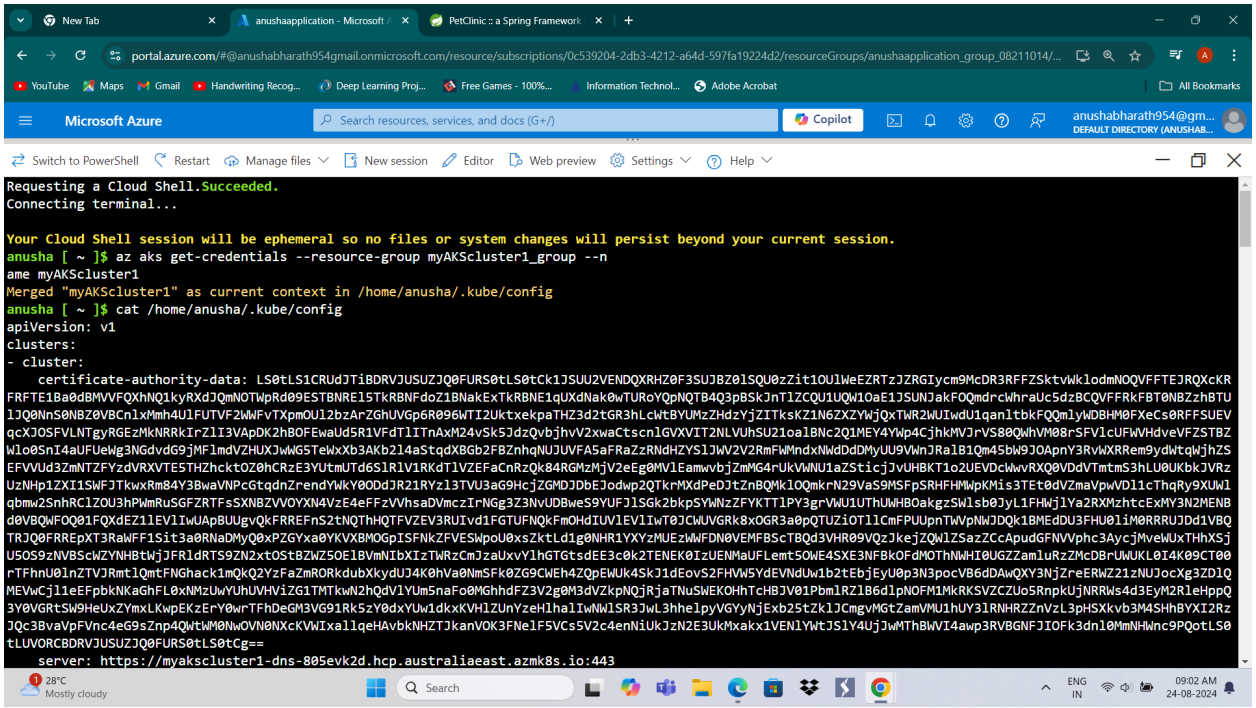
08:22 PM
23-08-2024


root@anushaapplication: ~/spring-petclinic
root@anushaapplication:~/spring-petclinic# nano Dockerfile
root@anushaapplication:~/spring-petclinic# ls
Dockerfile gradlew readme.md
LICENSE.txt gradlew.bat settings.gradle
build.gradle mvnw spring-petclinic
docker-compose.yml mvnw.cmd src
gradle pom.xml target
root@anushaapplication:~/spring-petclinic# ls -a
. .gitignore gradle settings.gradle
.. .gitpod.yml gradlew spring-petclinic
.devcontainer .mvn gradlew.bat src
.editorconfig Dockerfile mvnw target
.git LICENSE.txt mvnw.cmd
.gitattributes build.gradle pom.xml
.github docker-compose.yml readme.md
root@anushaapplication:~/spring-petclinic# docker build -t ImageNa
me .
[+] Building 0.0s (0/0) docker:default
ERROR: invalid tag "ImageName": repository name must be lowercase
root@anushaapplication:~/spring-petclinic# docker build -t ImageName .
[+] Building 0.0s (0/0) docker:default
ERROR: invalid tag "ImageName": repository name must be lowercase
root@anushaapplication:~/spring-petclinic# nano Dockerfile
root@anushaapplication:~/spring-petclinic# docker build -t springbootapp .
[+] Building 16.2s (8/8) FINISHED docker:default
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 324B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:latest 2.3s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [1/3] FROM docker.io/library/openjdk:latest@sha256:9b448de897d211c9e0ec635a485650aed6e28d4ecalefbc34940560a480b3f1f 12.3s
=> => resolve docker.io/library/openjdk:latest@sha256:9b448de897d211c9e0ec635a485650aed6e28d4ecalefbc34940560a480b3f1f 0.1s
=> => sha256:9b448de897d211c9e0ec635a485650aed6e28d4ecalefbc34940560a480b3f1f 1.04kB / 1.04kB 0.0s
=> => sha256:fe05457a5e9b9403f8e72eeba507ae80a4237d2d2d3f219fa62ceb128482a9ee 954B / 954B 0.0s
=> => sha256:71260f256d19f4ae5c76260le530l418d2516ca591103b1376f063be0b7ba056 4.46kB / 4.46kB 0.0s
=> => sha256:197cladcd755131915cd019bdd58658d44445b3638f65449932c18ee39b6047c 44.56MB / 44.56MB 1.0s
=> => sha256:57b698b7af4b18900b53c76874bldfb603dfb9aecleea328fdac86d37001e2a 12.26MB / 12.26MB 0.7s
=> => sha256:95a27dbe0150755fca4304b4afd0d7d6dd6a40ede6fdb30da8568e9e8cdf23a9 188.74MB / 188.74MB 3.9s
=> => extracting sha256:197cladcd755131915cd019bdd58658d44445b3638f65449932c18ee39b6047c 2.6s
29°C
Partly cloudy
Search
ENG
IN
09:58 PM
23-08-2024


root@anushaapplication: ~/spring-petclinic
=> => extracting sha256:197cladcd755131915cd019bdd58658d44445b3638f65449932c18ee39b6047c 2.6s
=> => extracting sha256:57b698b7af4b18900b53c768746b1dfb603dfb9aec1eea328fdac86d37001e2a 0.5s
=> => extracting sha256:95a27dbe0150755fca4304b4afd0d7d6dd6a40ede6fdb30da8568e9e8cdf23a9 3.5s
=> [internal] load build context 1.4s
=> => transferring context: 61.20MB 1.3s
=> [2/3] WORKDIR /app 0.1s
=> [3/3] COPY target/spring-petclinic-3.3.0-SNAPSHOT.jar app.jar 0.5s
=> exporting to image 0.8s
=> => exporting layers 0.7s
=> => writing image sha256:4521a716cebeb19d269336d4128bffd3f97f09a2f9e55e95ecb86dda9df45434 0.0s
=> => naming to docker.io/library/springbootapp 0.0s
root@anushaapplication:~/spring-petclinic# docker login
Log in with your Docker ID or email address to push and pull image
s from Docker Hub. If you don't have a Docker ID, head over to htt
ps://hub.docker.com/ to create one.
You can log in with your password or a Personal Access Token (PAT)
. Using a limited-scope PAT grants better security and is required
for organizations using SSO. Learn more at https://docs.docker.co
m/go/access-tokens/
Username: anusha954
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credential-stores
Login Succeeded
root@anushaapplication:~/spring-petclinic# docker image ls -a
REPOSITORY TAG IMAGE ID CREATED SI
ZE
springbootapp latest 4521a716cebe 15 minutes ago 53
1MB
mysql 8.4 750b67184e7a 4 weeks ago 58
4MB
postgres 16.3 07a4ee949b9e 3 months ago 43
2MB
testcontainers/ryuk 0.7.0 d2ed07d3edac 5 months ago 15
.2MB
root@anushaapplication:~/spring-petclinic# docker tag 4521a716cebe anusha954/springbootapprepo:springbootapp
29°C
Partly cloudy
Search
ENG
IN
09:58 PM
23-08-2024


root@anushaapplication: ~/spring-petclinic
. Using a limited-scope PAT grants better security and is required
for organizations using SSO. Learn more at https://docs.docker.co
m/go/access-tokens/
Username: anusha954
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credential-stores
Login Succeeded
root@anushaapplication:~/spring-petclinic# docker image ls -a
REPOSITORY TAG IMAGE ID CREATED SI
ZE
springbootapp latest 4521a716cebe 15 minutes ago 53
1MB
mysql 8.4 750b67184e7a 4 weeks ago 58
4MB
postgres 16.3 07a4ee949b9e 3 months ago 43
2MB
testcontainers/ryuk 0.7.0 d2ed07d3edac 5 months ago 15
.2MB
root@anushaapplication:~/spring-petclinic# docker tag 4521a716cebe anusha954/springbootapprepo:springbootapp
root@anushaapplication:~/spring-petclinic# docker image ls -a
REPOSITORY TAG IMAGE ID CREATED SIZE
anusha954/springbootapprepo springbootapp 4521a716cebe 18 minutes ago 531MB
springbootapp latest 4521a716cebe 18 minutes ago 531MB
mysql 8.4 750b67184e7a 4 weeks ago 584MB
postgres 16.3 07a4ee949b9e 3 months ago 432MB
testcontainers/ryuk 0.7.0 d2ed07d3edac 5 months ago 15.2MB
root@anushaapplication:~/spring-petclinic# docker push anusha954/springbootapprepo:springbootapp
The push refers to repository [docker.io/anusha954/springbootapprepo]
e56b4abb77f6: Pushed
==>] 55.12MB/61.19MB
56285d9a7760: Mounted from library/openjdk
077bff59ce57: Mounted from library/openjdk
9cd9df9ffc97: Mounted from library/openjdk
springbootapp: digest: sha256:5c9a9b05c4eab293889b3d0501e1991e9eda73182794030478a326e5c3916190 size: 1372
root@anushaapplication:~/spring-petclinic#
29°C
Partly cloudy
Search
ENG
IN
09:58 PM
23-08-2024


Settings | Docker
[Docker] Please confirm yo
anusha954/springbootapp
SSH using Azure CLI - Micr
Home - Microsoft Azure
Create Kubernetes cluster
portal.azure.com/#home
YouTube
Maps
Gmail
Handwriting Recog...
Deep Learning Proj...
Free Games - 100%...
Information Technol...
Adobe Acrobat
All Bookmarks
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
anushabharath954@gm...
DEFAULT DIRECTORY (ANUSHAB...
Switch to PowerShell
Restart
Manage files
New session
Editor
Web preview
Settings
Help
Requesting a Cloud Shell.Succeeded.
Connecting terminal...
Your Cloud Shell session will be ephemeral so no files or system changes will persist beyond your current session.
anusha [~]$ export RANDOM_ID="$(openssl rand -hex 3)"
anusha [~]$ export MY_RESOURCE_GROUP_NAME="myAKSResourceGroup$RANDOM_ID"
export REGION="westeurope"
export MY_AKS_CLUSTER_NAME="myAKSCluster$RANDOM_ID"
export MY_DNS_LABEL="mydnslabel$RANDOM_ID"
anusha [~]$ az group create --name $MY_RESOURCE_GROUP_NAME --location westeurope
{
"id": "/subscriptions/0c539204-2db3-4212-a64d-597fa19224d2/resourceGroups/myAKSResourceGroupe27d27",
"location": "westeurope",
"managedBy": null,
"name": "myAKSResourceGroupe27d27",
"properties": {
"provisioningState": "Succeeded"
},
"tags": null,
"type": "Microsoft.Resources/resourceGroups"
}
anusha [~]$
29°C
Partly cloudy
Search
ENG
IN
09:58 PM
23-08-2024


New Tab
anushaapplication - Microsoft
PetClinic :: a Spring Framework
portal.azure.com/#@anushabharath954gmail.onmicrosoft.com/resource/subscriptions/0c539204-2db3-4212-a64d-597fa19224d2/resourceGroups/anushaapplication_group_08211014/...
YouTube
Maps
Gmail
Handwriting Recog...
Deep Learning Proj...
Free Games - 100%...
Information Technol...
Adobe Acrobat
All Bookmarks
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
anushabharath954@gm...
DEFAULT DIRECTORY (ANUSHAB...
Switch to PowerShell
Restart
Manage files
New session
Editor
Web preview
Settings
Help
Requesting a Cloud Shell.Succeeded.
Connecting terminal...
Your Cloud Shell session will be ephemeral so no files or system changes will persist beyond your current session.
anusha [~]$ az aks get-credentials --resource-group myAKScluster1_group --n
ame myAKScluster1
Merged "myAKScluster1" as current context in /home/anusha/.kube/config
anusha [~]$ cat /home/anusha/.kube/config
apiVersion: v1
clusters:
- cluster:
certificate-authority-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUU2VENDQXRHZ0F3SUJBZ0lSQU0zZit1OUlWeEZRTzJZRGIycm9McDR3RFFZSktvWklodmNOQVFFTEJRQXcKRFRTE1Ba0dBMVVFQXhNQ1kyRXdJQmNOTWpRd09ESTBNRE15TkRBNFdoZ1BNakExTkRBNE1qUXdNak0wTURoYQpNQTB4Q3pBSkJnTlZCQU1UQW1OaE1JSUNJakFOQmdrcWhraUc5dzBCQVFFRkFBT0NBZzhBTUlJQ0NnS0NBZ0VBCnlxMmh4UlFUTVF2WWFvTXpmOUl2bzArZGhUVGp6R096WTI2UktxekpaTHZ3d2tGR3hLcWtBYUMzZHdzYjZITksKZ1N6ZXZYWjQxTWR2WUIwdU1qanltbkFQQmlyWDBHM0FXeCs0RFFSUEVqcXJOSFVLNTgyRGEzMkNRRkIrZlI3VApDK2hBOFEwaUd5R1VFdTlITnAxM24vSk5JdzQvbjhvV2xwaCtscnlGVXVIT2NLVUhSU21oalBNc2Q1MEY4YWp4CjhkMVJrVS80QWhVM08rSFVlcUFWVHdveVFZSTBZWlo0SnI4aUFUeWg3NGdvdG9jMFlmdVZHUXJwWG5TeWxXb3AKb2l4aStqdXBGb2FBZnhqNUJUVFA5aFRaZzRNdHZYSlJWV2V2RmFWMndxNWdDdDMyUU9VWnJRalB1Qm45bW9JOApnY3RvWXRRem9ydWtqWjhZSEFVVUd3ZmNTZFYzdVRXVTE5THZhcktOZ0hCRzE3YUtmUTd6SlRlV1RKdTlVZEFaCnRzQk84RGMzMjV2eEg0MVlEamwvbjZmMG4rUkVWNU1aZSticjJvUHBKT1o2UEVDcWwvRXQ0VDdVTmtmS3hLU0UKbkJVRzUzNHp1ZXI1SWFJTkwxRm84Y3BwaVNPcGtqdnZrendYWkY0ODdJR21RYzl3TVU3aG9HcjZGMDJDbEJodwp2QTkrMXdPeDJtZnBQMklOQmkrN29VaS9MSFpSRHFHMWpKMis3TEt0dVZmaVpwVDl1cThqRy9XUWlqbmw2SnhRC1ZOU3hPWmRuSGFZRTFsSXNBZVVOYXN4VzE4eFFzVVhsaDVmczIrNGg3Z3NvUDBweS9YUFJlSGk2bkpSYWNzZFYKTTlPY3grVWU1UThUWHBOakgzSWlsb0JyL1FHWjlYa2RXMzhtcExMY3N2MENBd0VBQWFOQ01FQVldEZ1lEVlIwUApBUUgvQkFRREFnS2tNQThHQTFVZEV3RUIvd1FGTUFNQkFmOHdIUVlEVlIwT0JCWUVGRk8xOGR3a0pQTUZiOTllCmFPUUpnTWVpNWJDQk1BMEdDU3FHU0liM0RRRUJDd1VBQTRJQ0FRREpXT3RaWFF1Sit3a0RNaDMyQ0xPZGYxa0YKVXBMOGpISFNkZFVESWpoU0xsZktLd1g0NHR1YXYzMUEzWWFDN0VEMFBScTBQd3VHR09VQzJkejZQWlZSazZCcApudGFNVVphc3AycjMveWUxTHhXSjUSOS9zNVBScWZYNHBtWjFRldRTS9ZN2xtOStBZWZ5OElBVmNIbXIzTWRzCmJzaUxvY1hGTGtsdEE3c0k2TENEK0IzUENMaUFLemt5OWE4SXE3NFBkOFdMOThNWHI0UGZZamluRzZMcDBrUWUKL0I4K09CT00rTFhnU0lnZTVJRmtlQmtFNGhack1mQkQ2YzFaZmROKkdubXkydUJ4K0hVa0NmSFk0ZG9CWEh4ZQpEWUk4SkJ1dEovS2FHVW5YdEVNdUw1b2tEbjEyU0p3N3pocVB6DAwQXY3NjZreERWZ21zNUJocXg3ZDlQ
MEVwCj11eEFpbkNkaGhFL0xNMzUwYUhUVHViZG1TMTkwN2hQdVlYUm5naFo0MGhhdFZ3V2g0M3dVZkpNQjRjaTNuSWEKOHhTcHBJV01PbmlRZlB6dlpNOFM1MkRKSVZCZUo5RnpkUjNRRWs4d3EyM2RleHppQ
3Y0VGRtSW9HeUxZYmxLkwpEkzErY0wrTFhDeGM3VG91Rk5zY0dxYUw1dkxKVHlZUnYzeHlhalIwNWlSR3JwL3hhelpyVGYyNjExb25tZklCmgvMGtZamVMU1hUY3lRNHRZZnVzL3pHSXkvb3M4SHhBYXI2RzJQc3BvaVpFVnc4eG9sZnp4QWtWM0NwOVN0NXcKVWIxallqeHAvbkNHZTJkanVOK3FNelF5VCs5V2c4enNiUkJzN2E3UkMxakx1VENlYWtJS1Y4UjJwMTHBWVI4awp3RVBGNFJIOFk3dnl0MmNHWnc9PQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0tCg==
server: https://myakscluster1-dns-805evk2d.hcp.australiaeast.azmk8s.io:443
28°C
Mostly cloudy
Search
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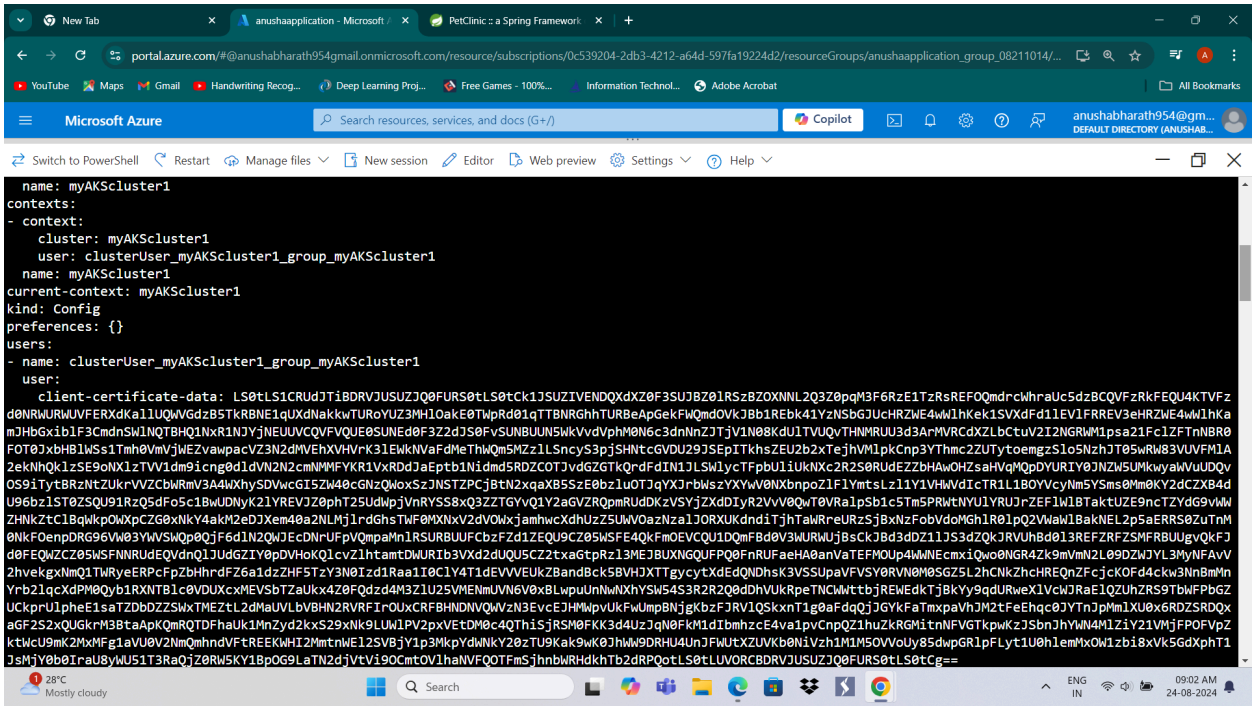
09:02 AM
24-08-2024


New Tab
anushaapplication - Microsoft
PetClinic :: a Spring Framework
portal.azure.com/#@anushabharath954gmail.onmicrosoft.com/resource/subscriptions/0c539204-2db3-4212-a64d-597fa19224d2/resourceGroups/anushaapplication_group_08211014/...
YouTube
Maps
Gmail
Handwriting Recog...
Deep Learning Proj...
Free Games - 100%...
Information Technol...
Adobe Acrobat
All Bookmarks
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
anushabharath954@gm...
DEFAULT DIRECTORY (ANUSHAB...
Switch to PowerShell
Restart
Manage files
New session
Editor
Web preview
Settings
Help
name: myAKScluster1
contexts:
- context:
cluster: myAKScluster1
user: clusterUser_myAKScluster1_group_myAKScluster1
name: myAKScluster1
current-context: myAKScluster1
kind: Config
preferences: {}
users:
- name: clusterUser_myAKScluster1_group_myAKScluster1
user:
client-certificate-data: LS0tLS1CRUdJTiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZIVENDQXdXZ0F3SUJBZ0lRSzBZOXNNL2Q3Z0pqM3F6RzE1TzRsREFOQmdrcWhraUc5dzBCQVFzRkFEQU4KTVFzd0NRWURWUVFERXdKallUQWVGdzB5TkRBNE1qUXdNakkwTURoYUZ3MHlOakE0TWpRd01qTTBNRGhhTURBeApGekFWQmdOVkJBb1REbk41YzNSbGJUcHRZWE4wWlhKek1SVXdFd1lEVlFRREV3eHRZWE4wWlhKa
mJHbGxiblF3CmdnSWlNQTBHQ1NxR1NJYjNEUUVCQVFVQUE0SUNEd0F3Z2dJS0FvSUNBUUN5WkVvdVphM0N6c3dnNnZJTjV1N08KdUlTVUQvTHNMRUU3d3ArMVRCdXZLbCtuV2I2NGRWM1psa21FclZFTnNBR0
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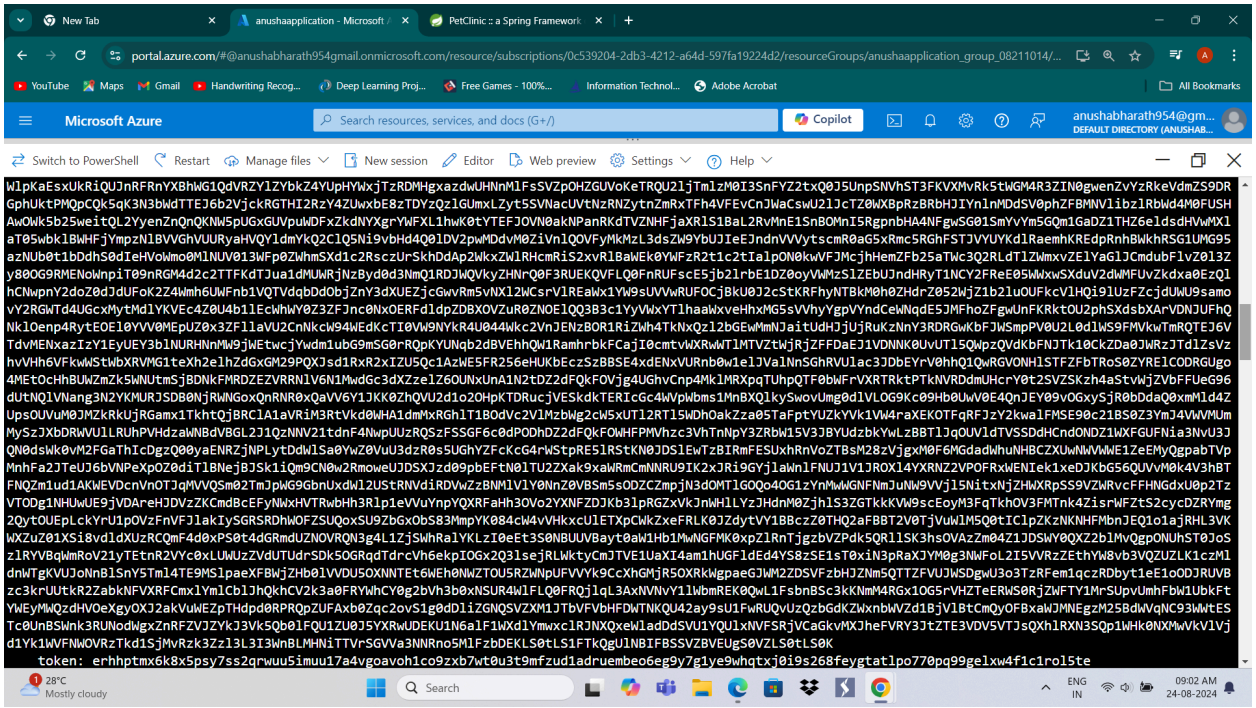
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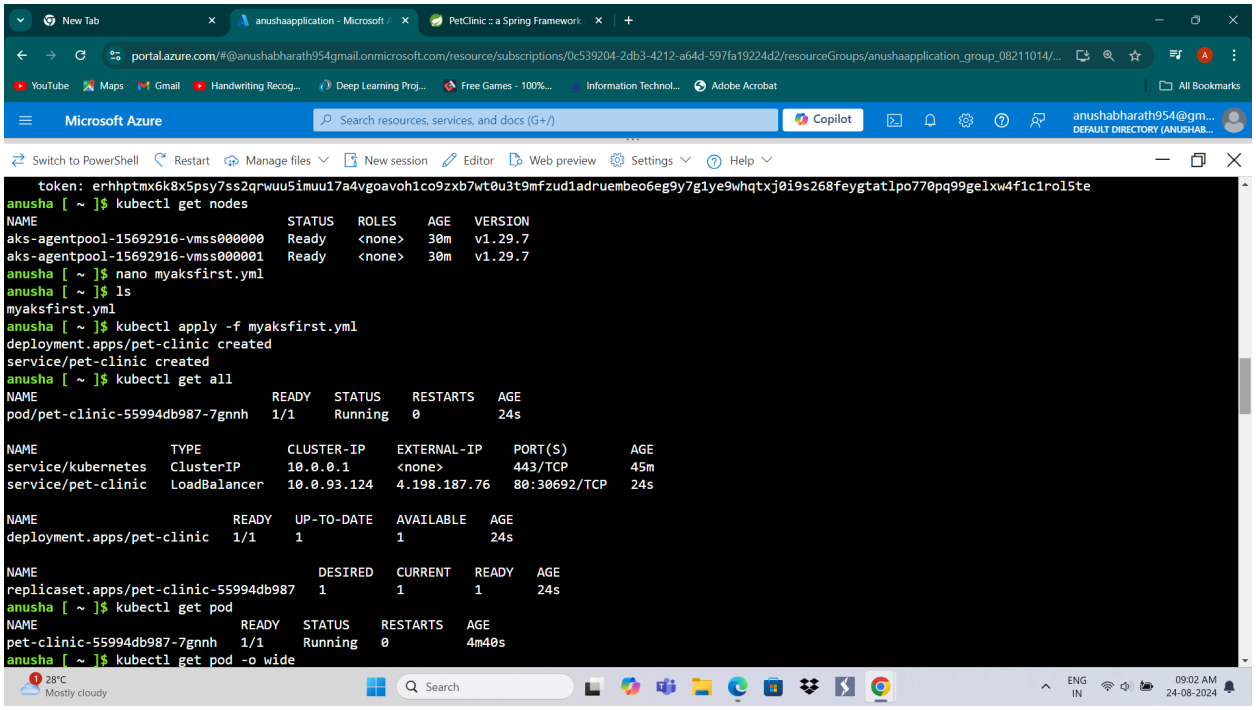
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New session
Editor
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anusha [~]$ kubectl get nodes
NAME STATUS ROLES AGE VERSION
aks-agentpool-15692916-vmss000000 Ready <none> 30m v1.29.7
aks-agentpool-15692916-vmss000001 Ready <none> 30m v1.29.7
anusha [~]$ nano myaksfirst.yml
anusha [~]$ ls
myaksfirst.yml
anusha [~]$ kubectl apply -f myaksfirst.yml
deployment.apps/pet-clinic created
service/pet-clinic created
anusha [~]$ kubectl get all
NAME READY STATUS RESTARTS AGE
pod/pet-clinic-55994db987-7gnnh 1/1 Running 0 24s
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
service/kubernetes ClusterIP 10.0.0.1 <none> 443/TCP 45m
service/pet-clinic LoadBalancer 10.0.93.124 4.198.187.76 80:30692/TCP 24s
NAME READY UP-TO-DATE AVAILABLE AGE
deployment.apps/pet-clinic 1/1 1 1 24s
NAME DESIRED CURRENT READY AGE
replicaset.apps/pet-clinic-55994db987 1 1 1 24s
anusha [~]$ kubectl get pod
NAME READY STATUS RESTARTS AGE
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ENG
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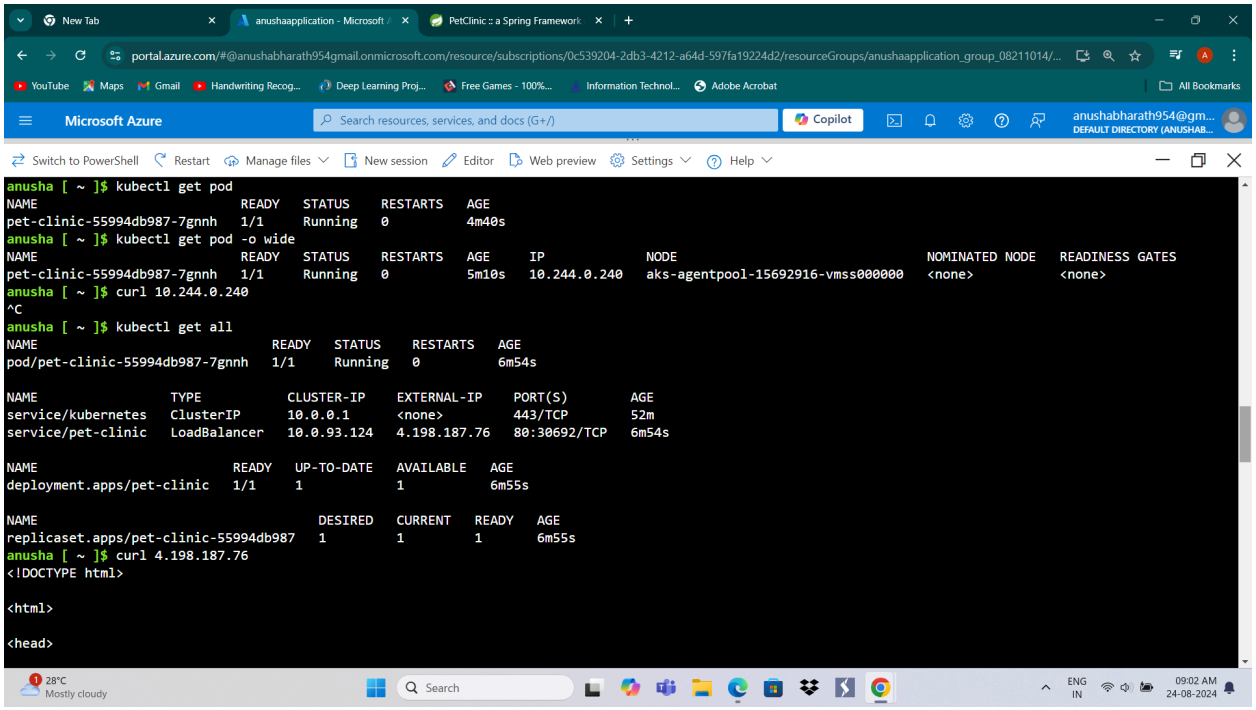
24-08-2024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New session
Editor
Web preview
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Help
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anusha [~]$ kubectl get pod -o wide
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anusha [~]$ curl 10.244.0.240
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NAME READY UP-TO-DATE AVAILABLE AGE
deployment.apps/pet-clinic 1/1 1 1 6m55s
NAME DESIRED CURRENT READY AGE
replicaset.apps/pet-clinic-55994db987 1 1 1 6m55s
anusha [~]$ curl 4.198.187.76
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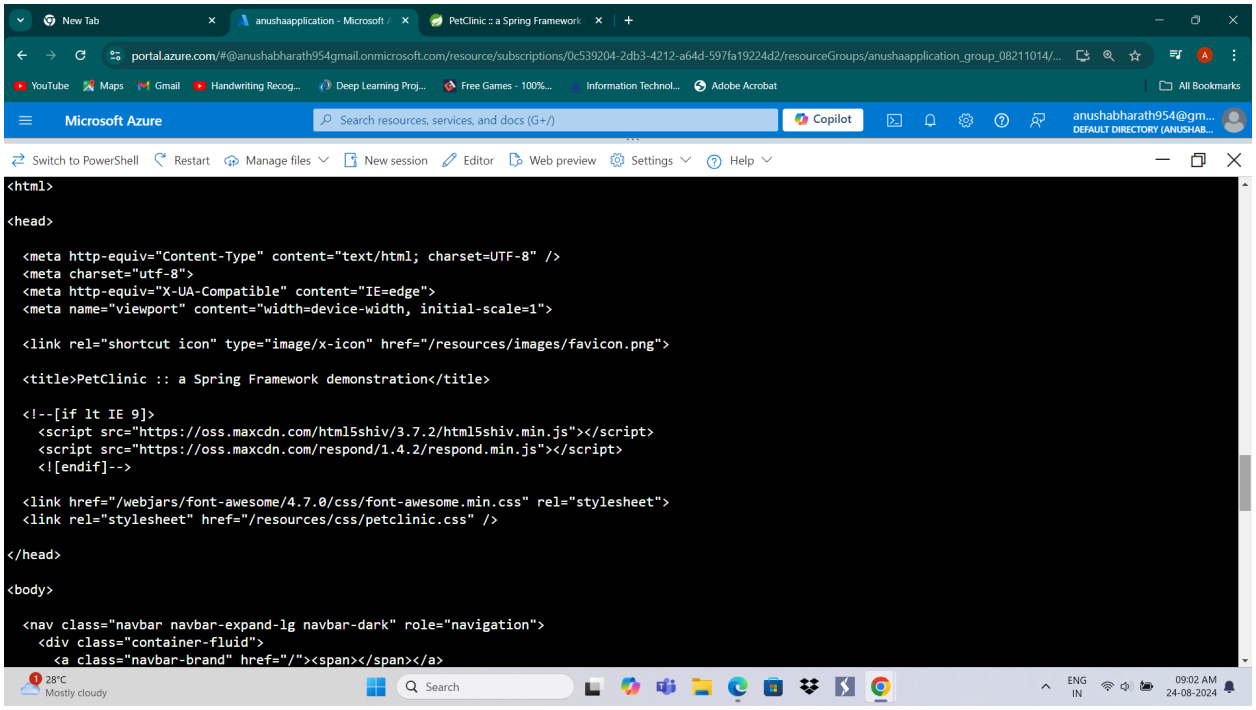
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Mostly cloudy
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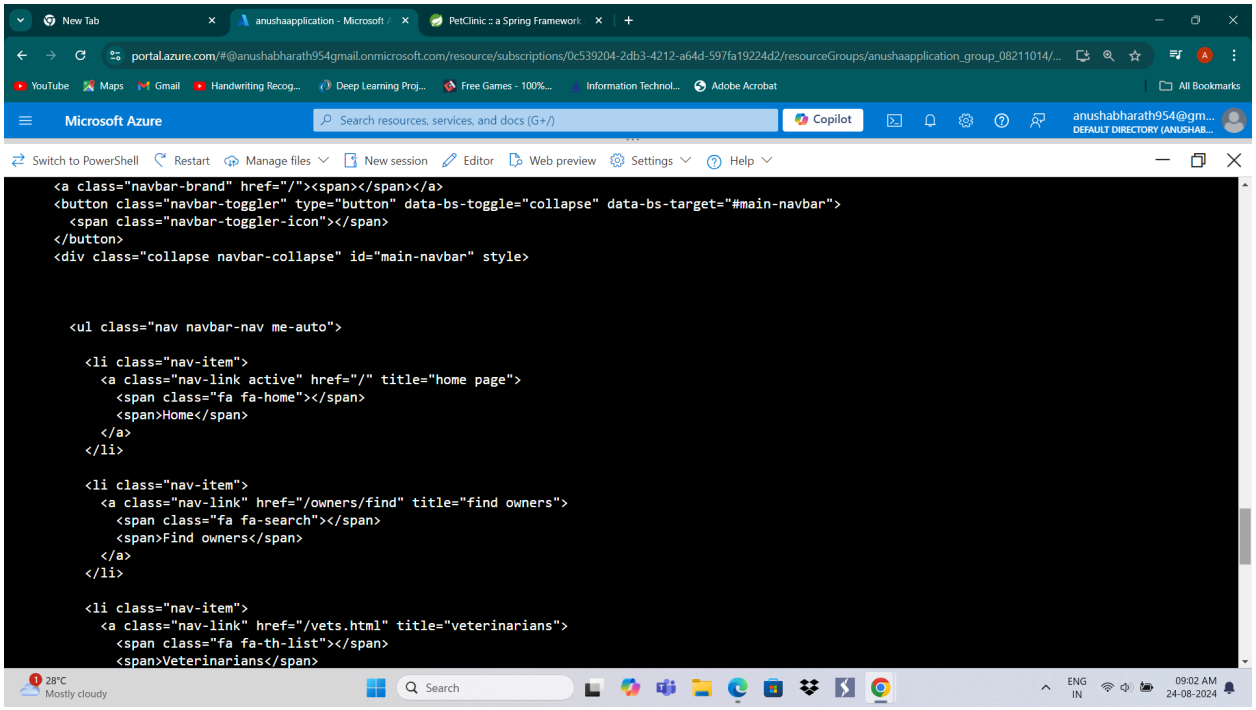
09:02 AM
24-08-2024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Restart
Manage files
New session
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Help
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Home
</a>
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Find owners
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Veterinarians
28°C
Mostly cloudy
Search
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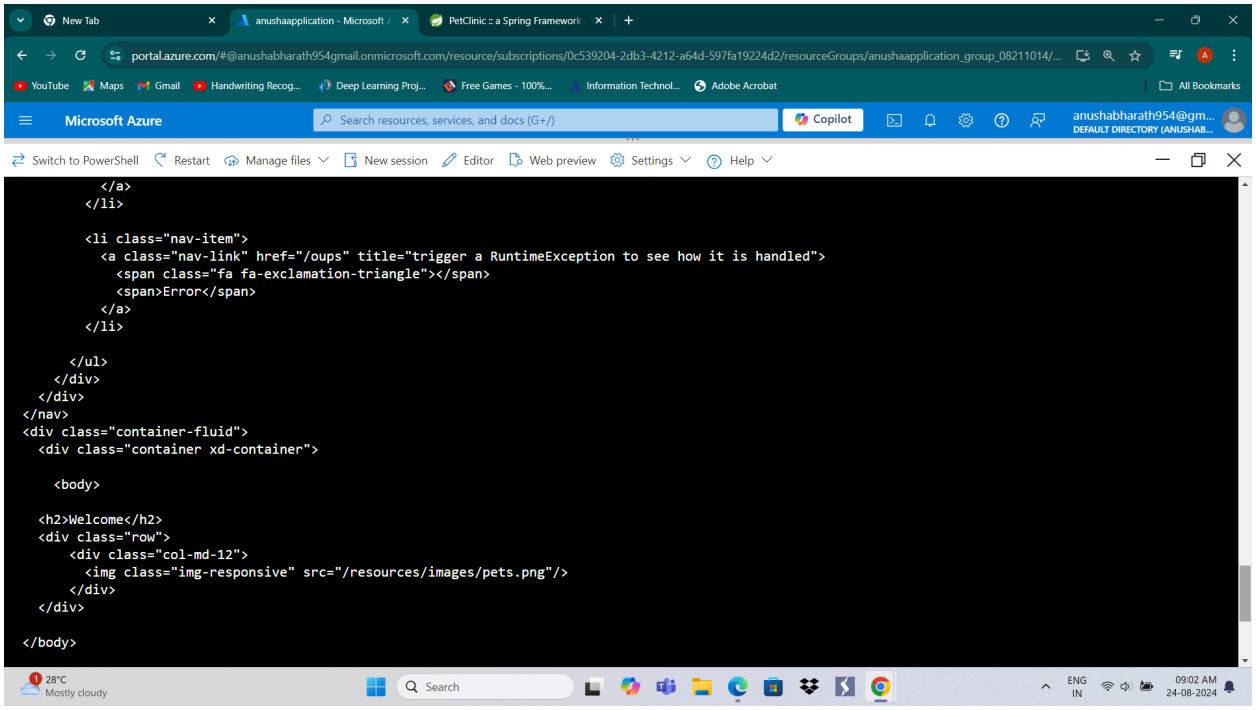
24-08-2024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anushaapplication - Microsoft
PetClinic :: a Spring Framework
portal.azure.com/#@anushabharath954gmail.onmicrosoft.com/resource/subscriptions/0c539204-2db3-4212-a64d-597fa19224d2/resourceGroups/anushaapplication_group_08211014/...
YouTube
Maps
Gmail
Handwriting Recog...
Deep Learning Proj...
Free Games - 100%...
Information Technol...
Adobe Acrobat
All Bookmarks
Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
anushabharath954@gm...
DEFAULT DIRECTORY (ANUSHAB...
Switch to PowerShell
Restart
Manage files
New session
Editor
Web preview
Settings
Help
</a>
</li>
<li class="nav-item">
<a class="nav-link" href="/oups" title="trigger a RuntimeException to see how it is handled">

Error
</a>
</li>
</ul>

</nav>

<body>
<h2>Welcome</h2>

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28°C
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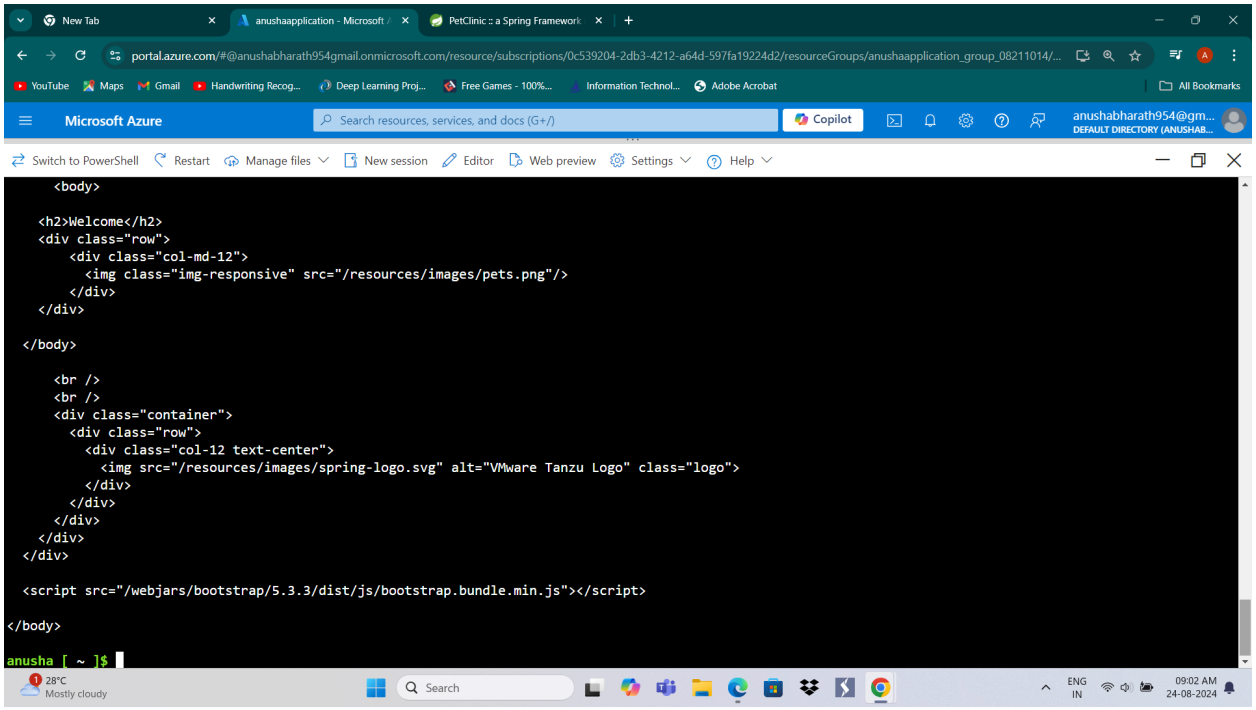
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<h2>Welcome</h2>

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<img src="/resources/images/spring-logo.svg" alt="VMware Tanzu Logo" class="logo">

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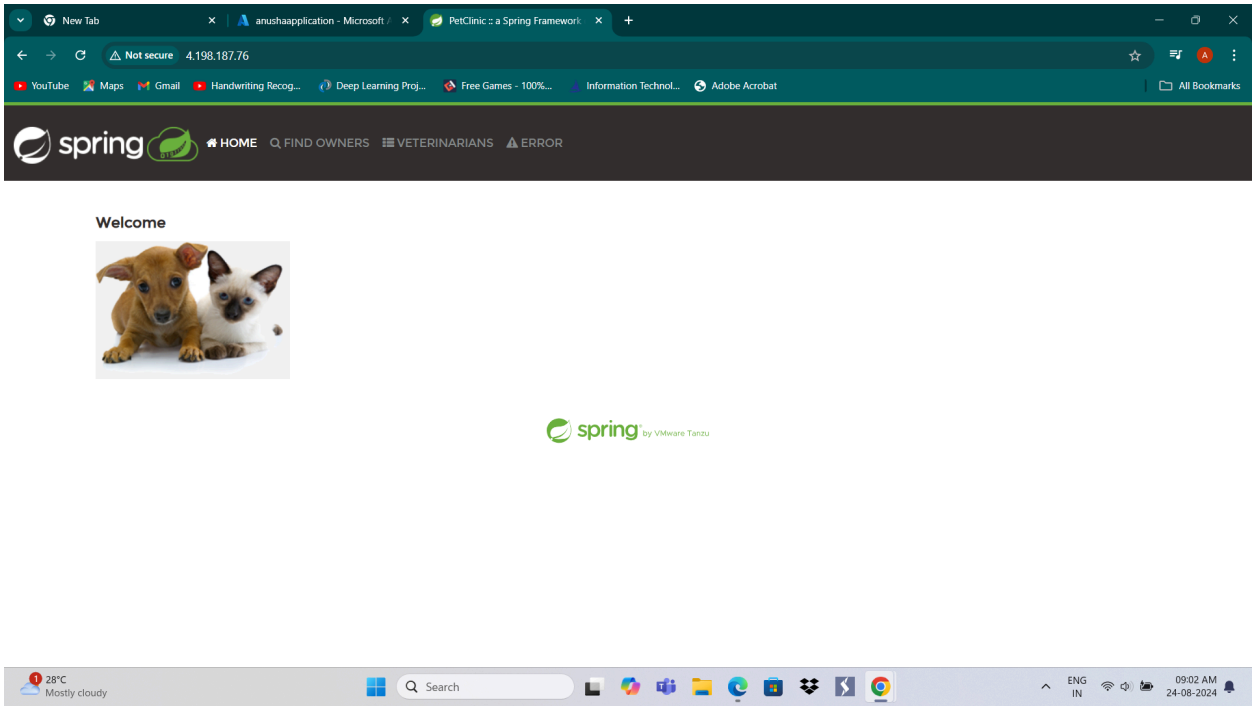
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PetClinic :: a Spring Framework
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Handwriting Recog...
Deep Learning Proj...
Free Games - 100%...
Information Technol...
Adobe Acrobat
All Bookmarks
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FIND OWNERS
VETERINARIANS
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Welcome
spring by VMware Tanzu
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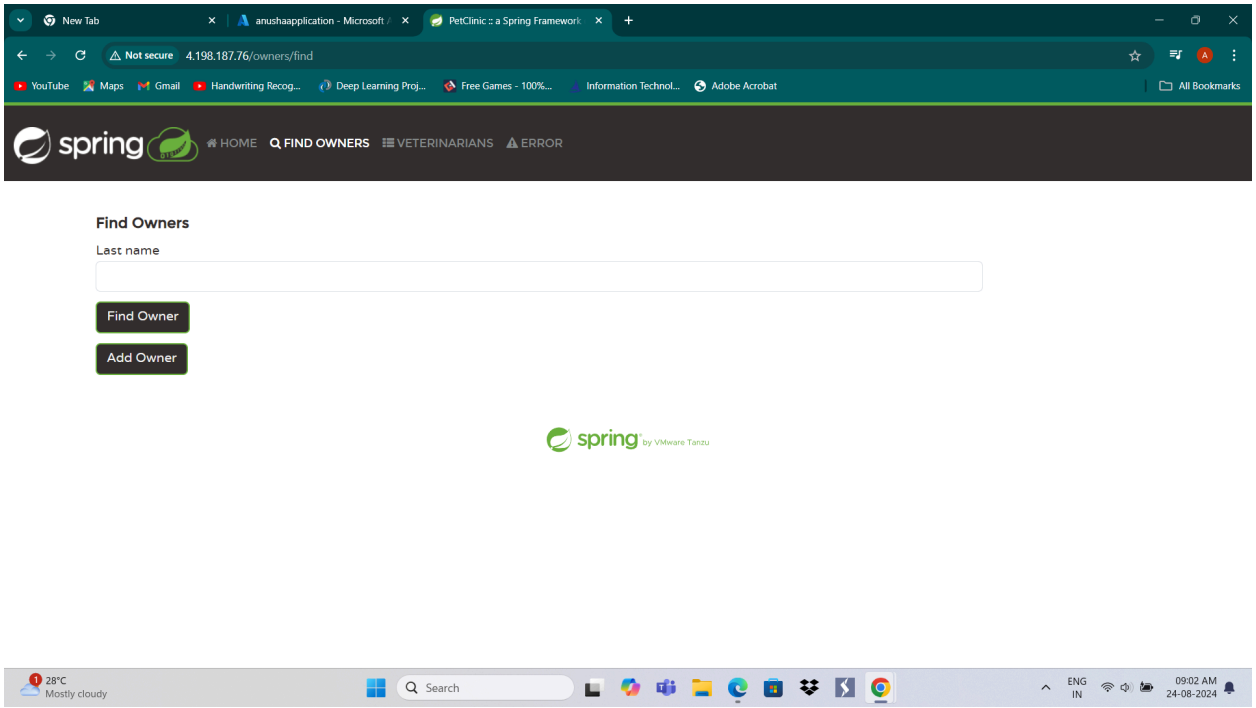
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Not secure
4.198.187.76/owners/find
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Maps
Gmail
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Deep Learning Proj...
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Information Technol...
Adobe Acrobat
All Bookmarks
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HOME
FIND OWNERS
VETERINARIANS
ERROR
Find Owners
Last name
Find Owner
Add Owner
spring by VMware Tanzu
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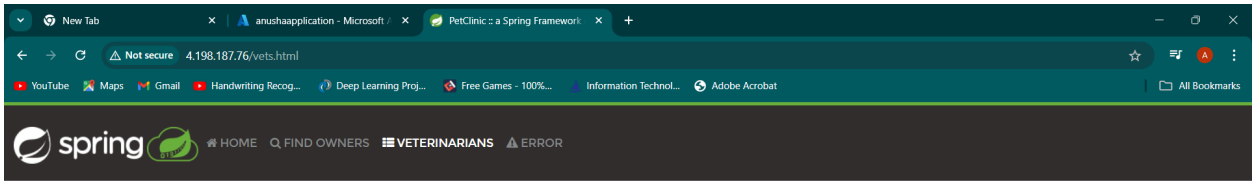
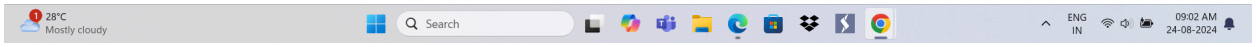


Veterinarians

Name	Specialties
James Carter	none
Helen Leary	radiology
Linda Douglas	dentistry surgery
Rafael Ortega	surgery
Henry Stevens	radiology

Pages: [1 2]

spring by VMware Tanzu