ELASTIC CONTAINER REGISTRY:

ECR DEFINATION:

Amazon Elastic Container Registry (ECR) is a fully managed container registry that makes it easy to store, manage, share, and deploy your container images and artifacts anywhere.

ECR PRICING:

You pay only for the amount of data you store in your public or private repositories and data transferred to the Internet.

BENEFITS:

Fully managed

Amazon ECR eliminates the need to operate and scale the infrastructure required to power your container registry.

Secure

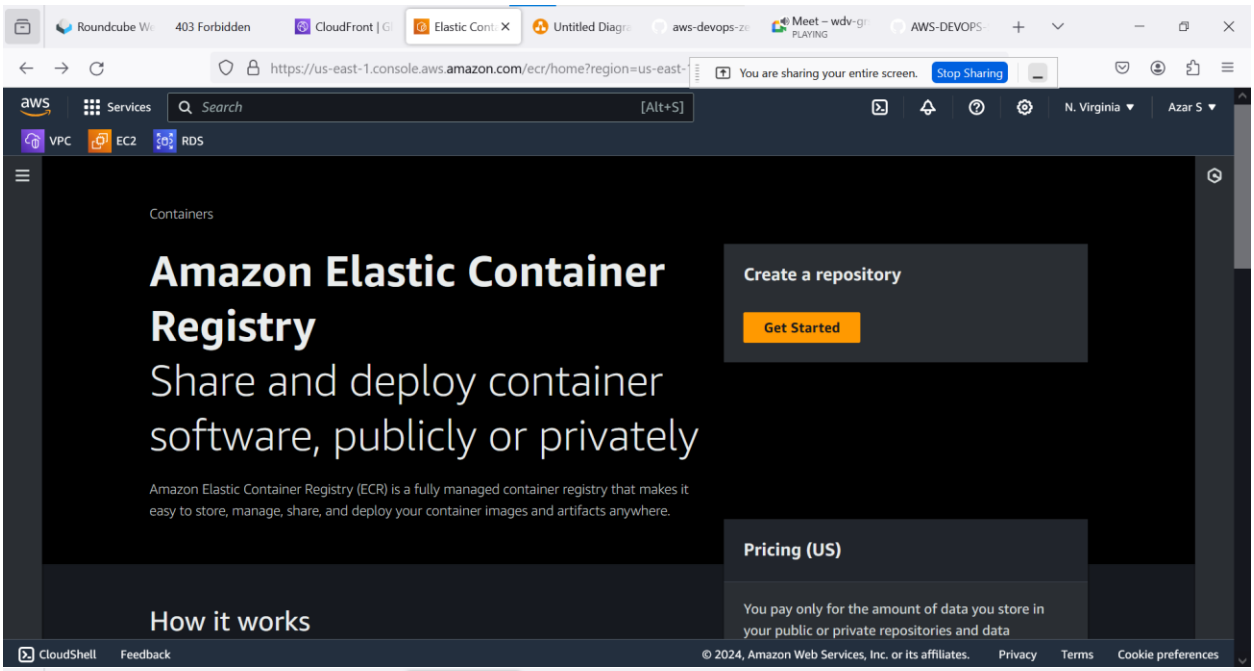
Amazon ECR transfers your container images over HTTPS and automatically encrypts your images at rest.

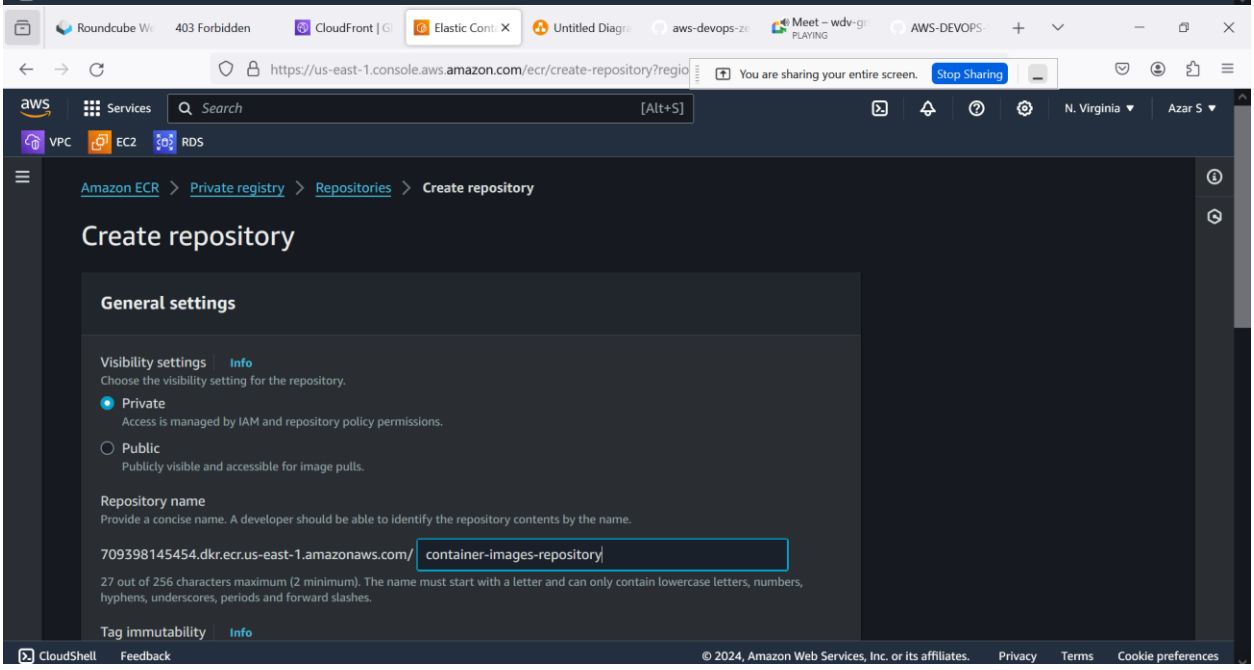
Simplified workflow

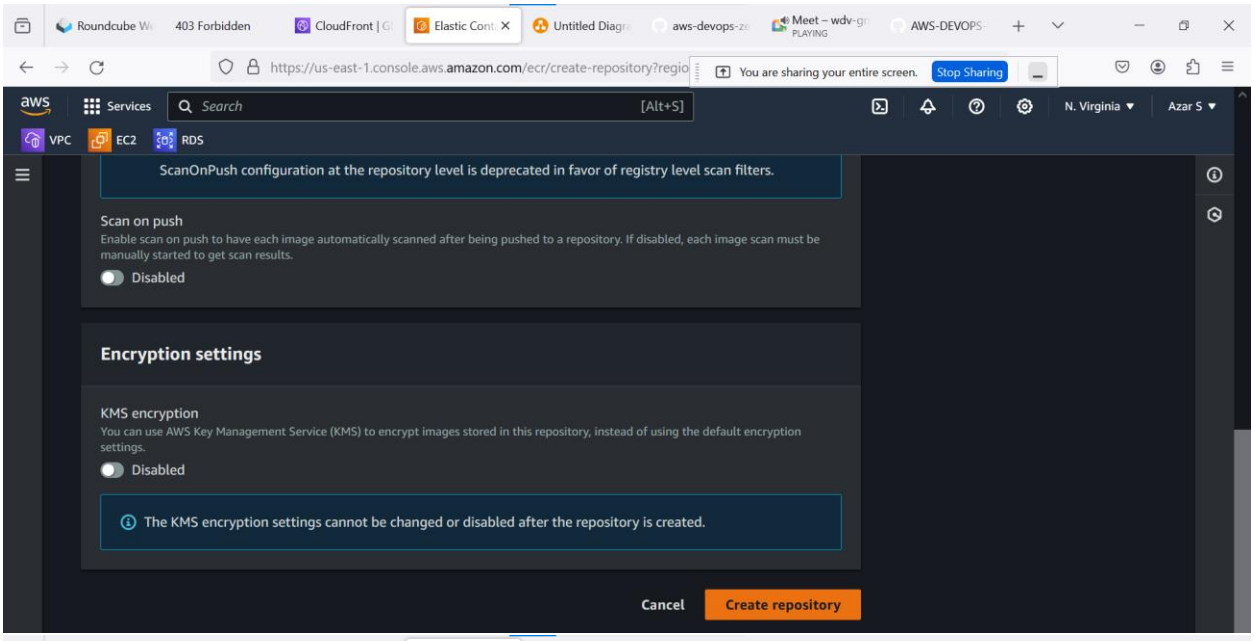
Amazon Elastic Container Registry integrates with Amazon EKS, Amazon ECS, Amazon Lambda, and the Docker CLI, allowing you to simplify your development and production workflows.

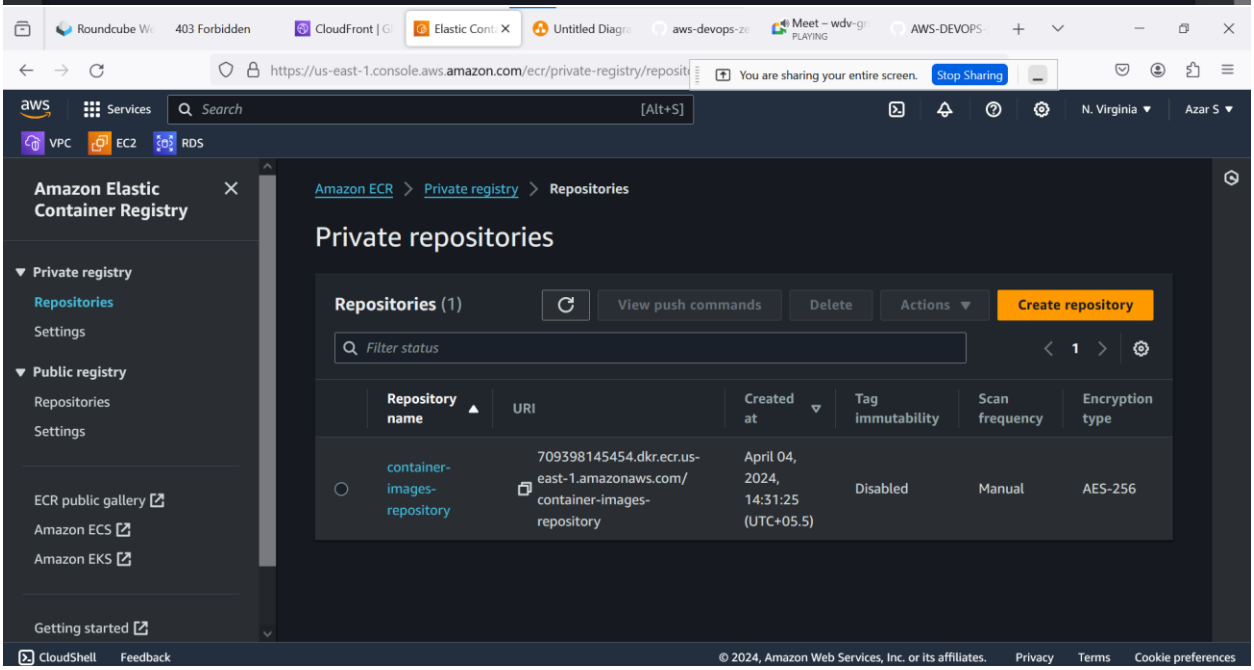
Highly available

Amazon ECR has a highly scalable, redundant, and durable architecture, so your container images are highly available and accessible.


Roundcube W
403 Forbidden
CloudFront | Gl
Elastic Cont
Untitled Diagra
aws-devops-ze
Meet – wdv-gr
PLAYING
AWS-DEVOPS
https://us-east-1.console.aws.amazon.com/ecr/home?region=us-east-
You are sharing your entire screen.
Stop Sharing
aws
Services
Search
[Alt+S]
N. Virginia
Azar S
VPC
EC2
RDS
Containers
Amazon Elastic Container Registry
Share and deploy container software, publicly or privately
Amazon Elastic Container Registry (ECR) is a fully managed container registry that makes it easy to store, manage, share, and deploy your container images and artifacts anywhere.
Create a repository
Get Started
Pricing (US)
You pay only for the amount of data you store in your public or private repositories and data
How it works
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Roundcube W
403 Forbidden
CloudFront | Gl
Elastic Cont
Untitled Diagra
aws-devops-ze
Meet – wdv-gr
PLAYING
AWS-DEVOPS
https://us-east-1.console.aws.amazon.com/ecr/create-repository?regio
You are sharing your entire screen.
Stop Sharing
aws
Services
Search
[Alt+S]
N. Virginia
Azar S
VPC
EC2
RDS
Amazon ECR
Private registry
Repositories
Create repository
Create repository
General settings
Visibility settings
Info
Choose the visibility setting for the repository.
Private
Access is managed by IAM and repository policy permissions.
Public
Publicly visible and accessible for image pulls.
Repository name
Provide a concise name. A developer should be able to identify the repository contents by the name.
709398145454.dkr.ecr.us-east-1.amazonaws.com/
container-images-repository
27 out of 256 characters maximum (2 minimum). The name must start with a letter and can only contain lowercase letters, numbers, hyphens, underscores, periods and forward slashes.
Tag immutability
Info
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


https://us-east-1.console.aws.amazon.com/ecr/create-repository?regio
You are sharing your entire screen.
Stop Sharing
Services
Search
[Alt+S]
N. Virginia
Azar S
VPC
EC2
RDS
ScanOnPush configuration at the repository level is deprecated in favor of registry level scan filters.
Scan on push
Enable scan on push to have each image automatically scanned after being pushed to a repository. If disabled, each image scan must be manually started to get scan results.
Disabled
Encryption settings
KMS encryption
You can use AWS Key Management Service (KMS) to encrypt images stored in this repository, instead of using the default encryption settings.
Disabled
The KMS encryption settings cannot be changed or disabled after the repository is created.
Cancel
Create repository


https://us-east-1.console.aws.amazon.com/ecr/private-registry/reposit
You are sharing your entire screen.
Stop Sharing
Amazon Elastic Container Registry
Private registry
Repositories
Settings
Public registry
Repositories
Settings
ECR public gallery
Amazon ECS
Amazon EKS
Getting started
Amazon ECR > Private registry > Repositories
Private repositories
Repositories (1)
View push commands
Delete
Actions
Create repository
Filter status
Repository name
URI
Created at
Tag immutability
Scan frequency
Encryption type
container-images-repository
709398145454.dkr.ecr.us-east-1.amazonaws.com/container-images-repository
April 04, 2024, 14:31:25 (UTC+05.5)
Disabled
Manual
AES-256
CloudShell
Feedback
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Privacy
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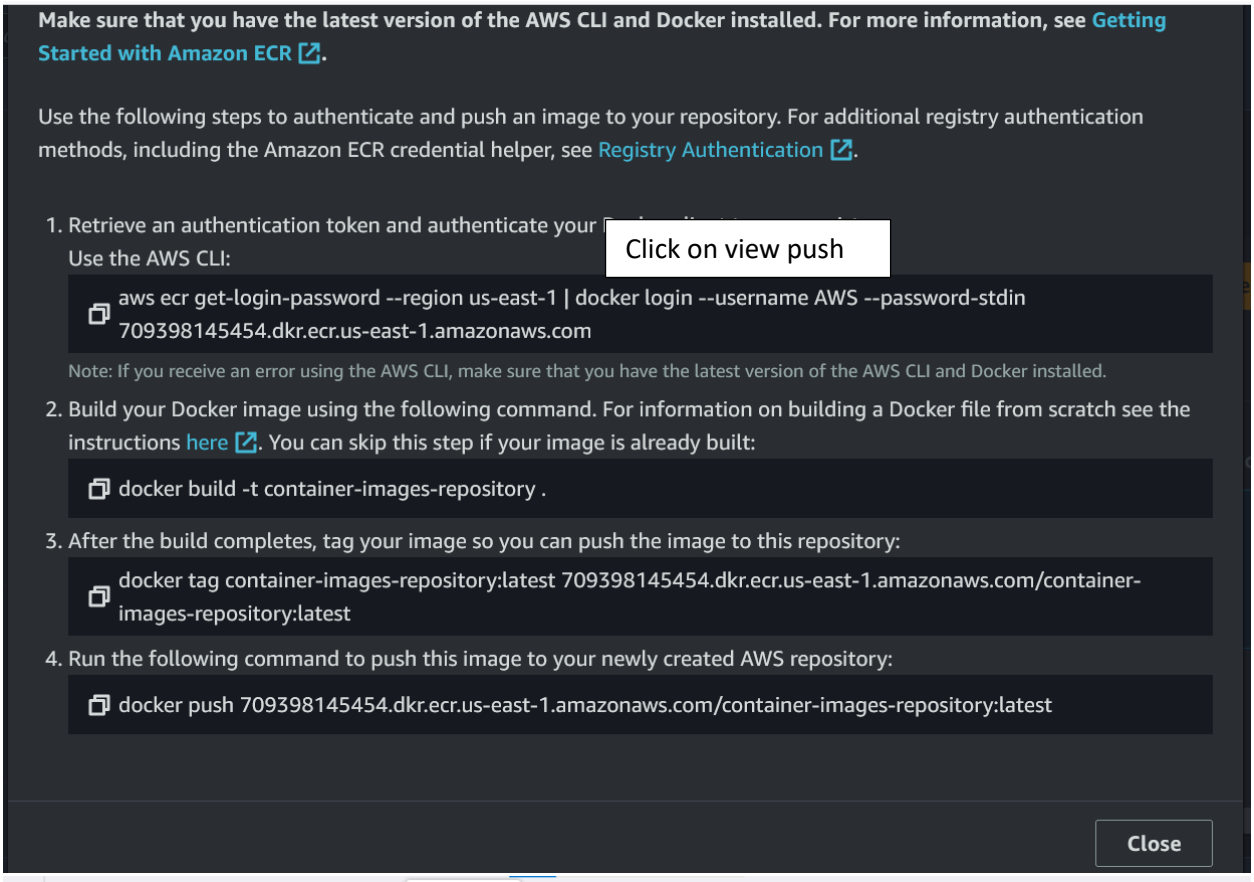
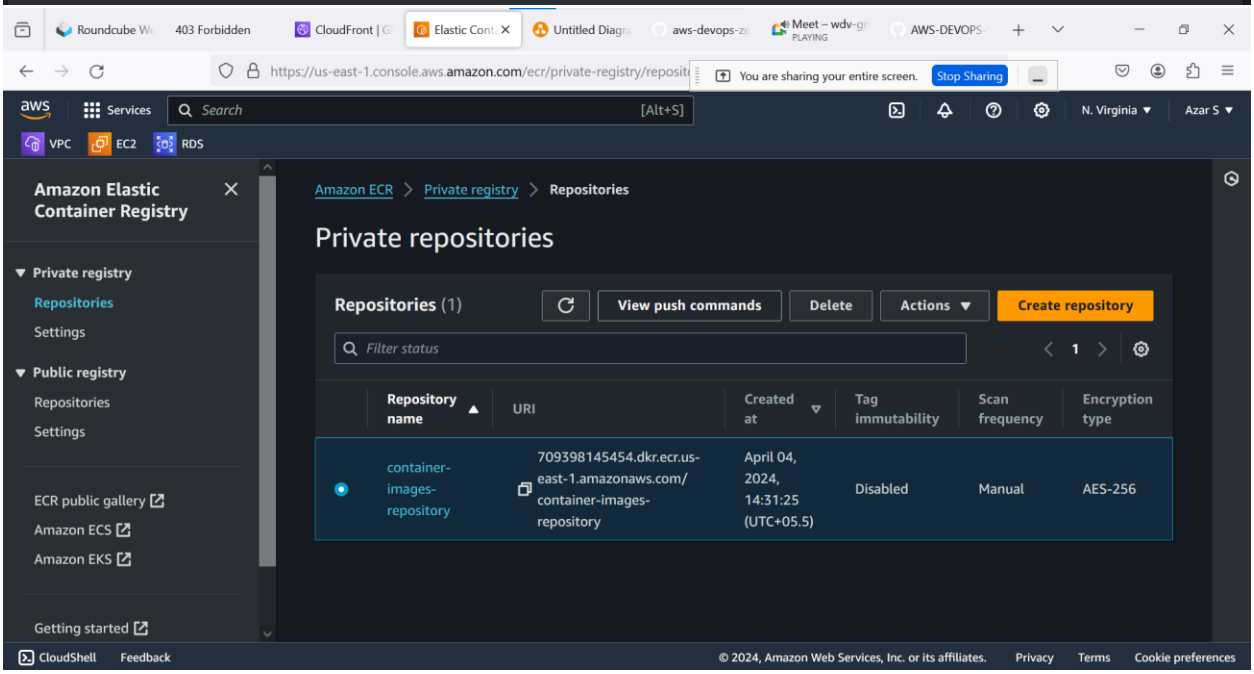
Cookie preferences


Make sure that you have the latest version of the AWS CLI and Docker installed. For more information, see Getting Started with Amazon ECR.
Use the following steps to authenticate and push an image to your repository. For additional registry authentication methods, including the Amazon ECR credential helper, see Registry Authentication.
1. Retrieve an authentication token and authenticate your
Use the AWS CLI:
Click on view push
aws ecr get-login-password --region us-east-1 | docker login --username AWS --password-stdin 709398145454.dkr.ecr.us-east-1.amazonaws.com
Note: If you receive an error using the AWS CLI, make sure that you have the latest version of the AWS CLI and Docker installed.
2. Build your Docker image using the following command. For information on building a Docker file from scratch see the instructions here. You can skip this step if your image is already built:
docker build -t container-images-repository .
3. After the build completes, tag your image so you can push the image to this repository:
docker tag container-images-repository:latest 709398145454.dkr.ecr.us-east-1.amazonaws.com/container-images-repository:latest
4. Run the following command to push this image to your newly created AWS repository:
docker push 709398145454.dkr.ecr.us-east-1.amazonaws.com/container-images-repository:latest
Close


Amazon Elastic Container Registry
Private registry
Repositories
Settings
Public registry
Repositories
Settings
ECR public gallery
Amazon ECS
Amazon EKS
Getting started
Amazon ECR > Private registry > Repositories
Private repositories
Repositories (1)
View push commands
Delete
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Repository name
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Tag immutability
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Encryption type
container-images-repository
709398145454.dkr.ecr.us-east-1.amazonaws.com/container-images-repository
April 04, 2024, 14:31:25 (UTC+05.5)
Disabled
Manual
AES-256
CloudShell
Feedback
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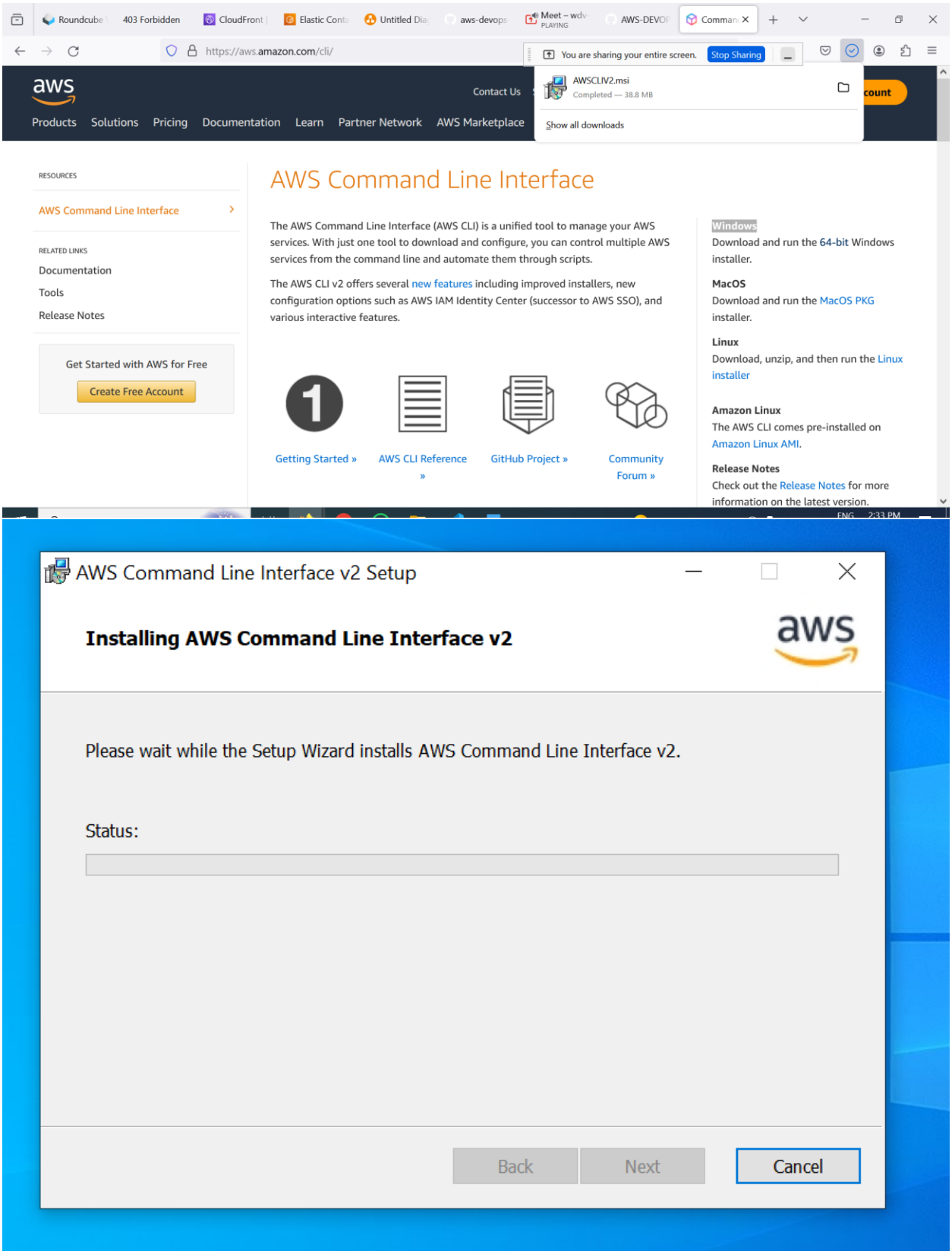
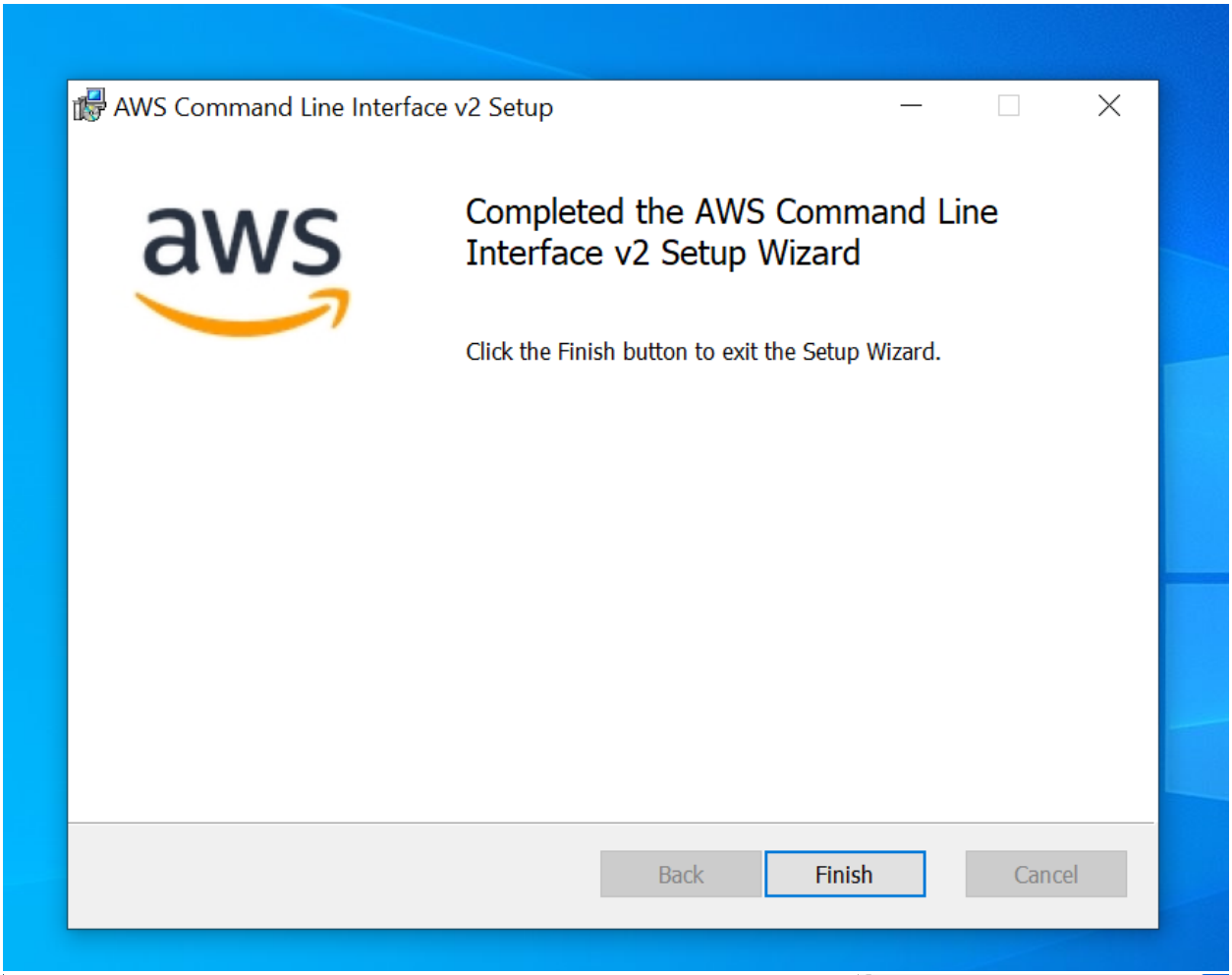
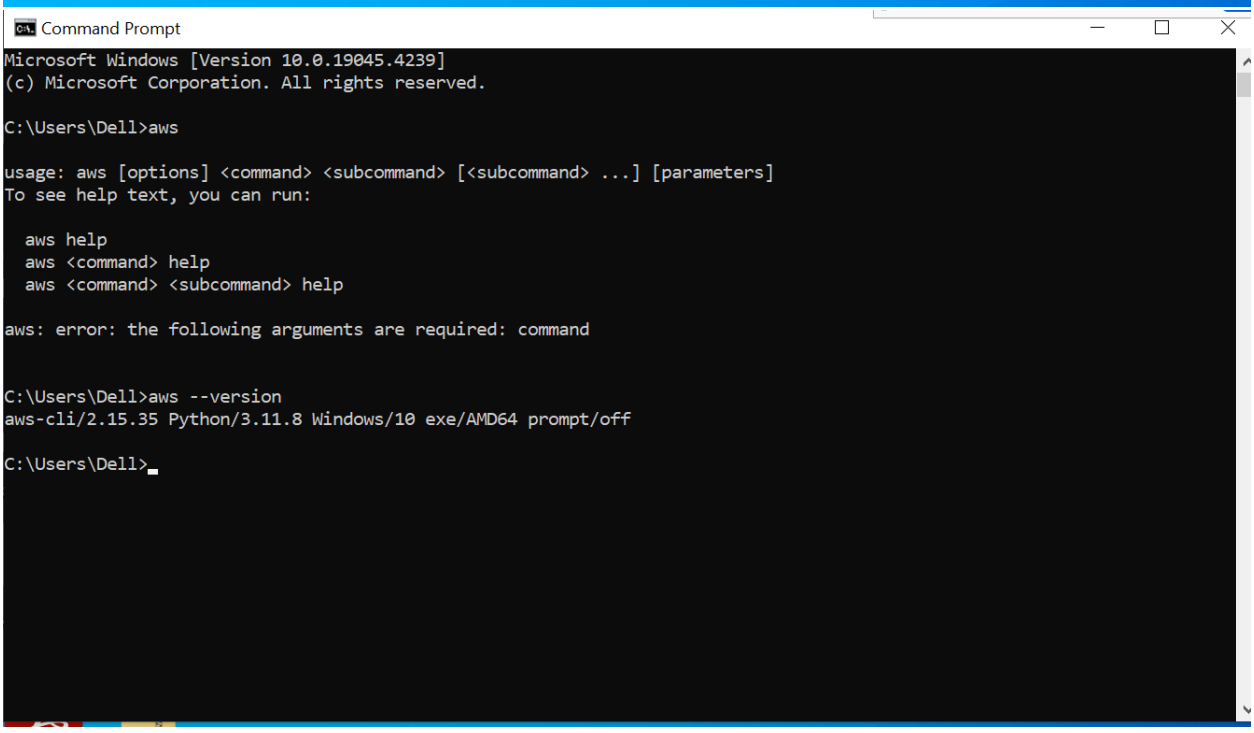
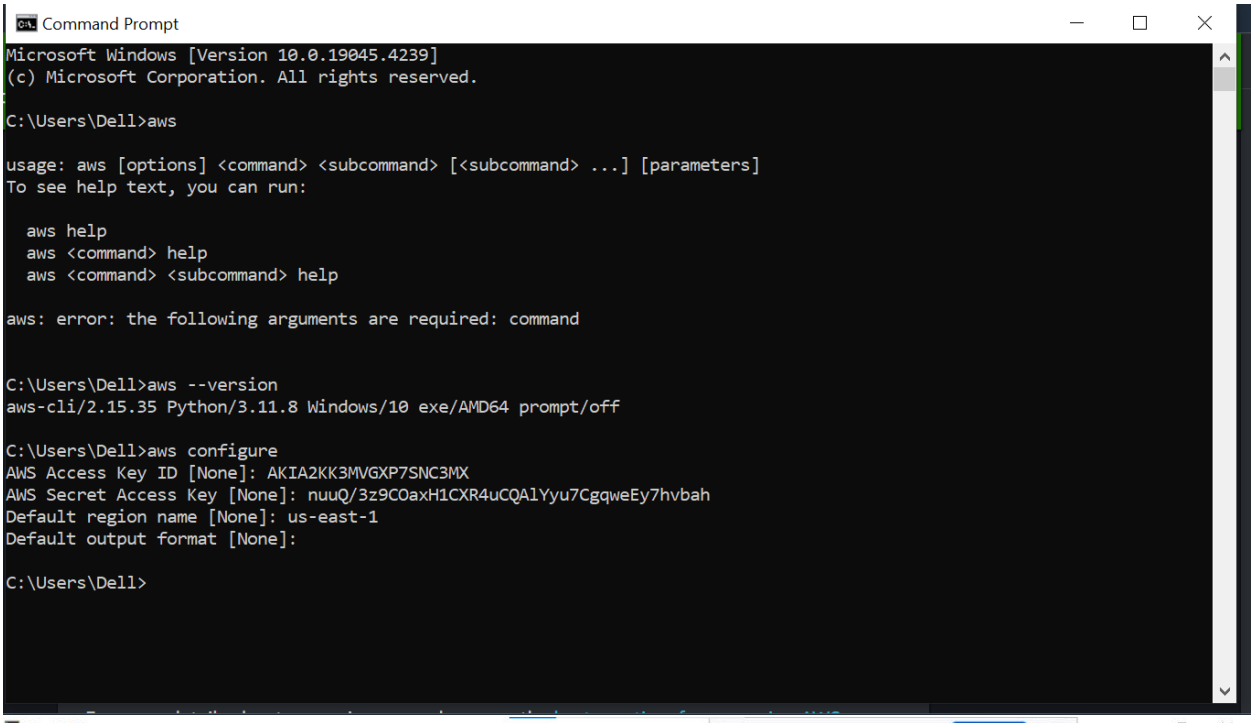
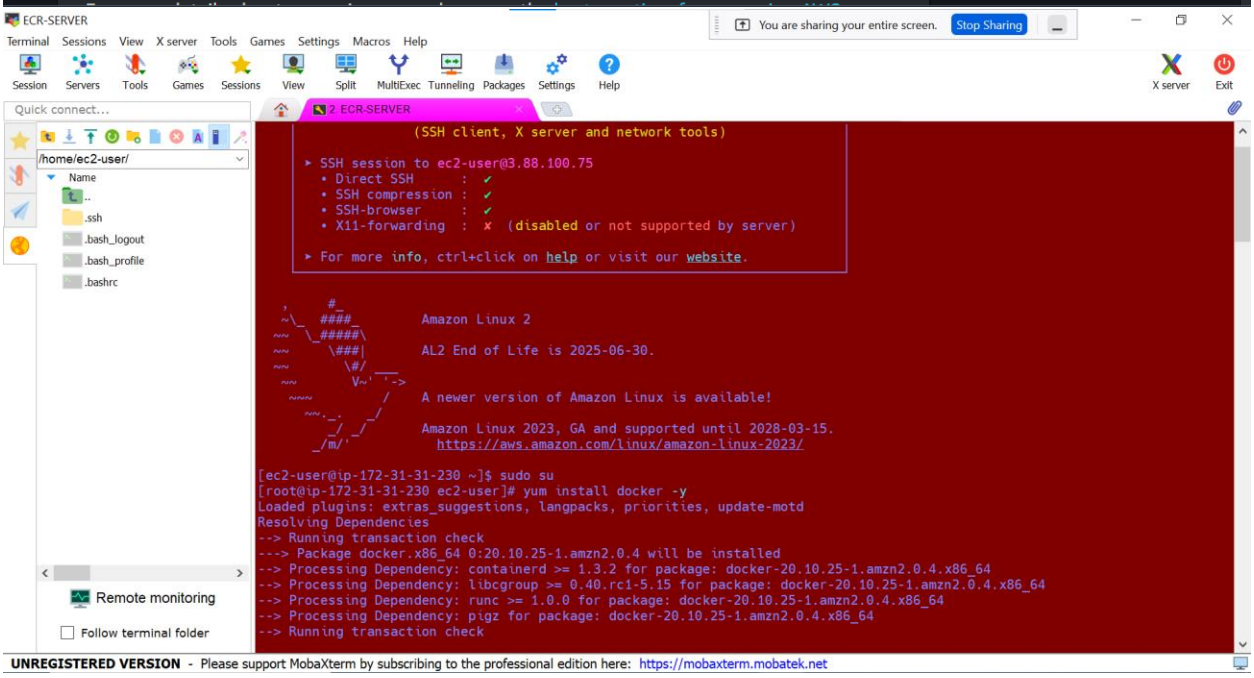

https://aws.amazon.com/cli/
You are sharing your entire screen.
Stop Sharing
AWSCLIV2.msi
Completed — 38.8 MB
Show all downloads
Contact Us
Products
Solutions
Pricing
Documentation
Learn
Partner Network
AWS Marketplace
RESOURCES
AWS Command Line Interface
RELATED LINKS
Documentation
Tools
Release Notes
Get Started with AWS for Free
Create Free Account
AWS Command Line Interface
The AWS Command Line Interface (AWS CLI) is a unified tool to manage your AWS services. With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts.
The AWS CLI v2 offers several new features including improved installers, new configuration options such as AWS IAM Identity Center (successor to AWS SSO), and various interactive features.
Getting Started »
AWS CLI Reference »
GitHub Project »
Community Forum »
Windows
Download and run the 64-bit Windows installer.
MacOS
Download and run the MacOS PKG installer.
Linux
Download, unzip, and then run the Linux installer
Amazon Linux
The AWS CLI comes pre-installed on Amazon Linux AMI.
Release Notes
Check out the Release Notes for more information on the latest version.
AWS Command Line Interface v2 Setup
Installing AWS Command Line Interface v2
Please wait while the Setup Wizard installs AWS Command Line Interface v2.
Status:
Back
Next
Cancel


AWS Command Line Interface v2 Setup
aws
Completed the AWS Command Line Interface v2 Setup Wizard
Click the Finish button to exit the Setup Wizard.
Back
Finish
Cancel


Command Prompt
Microsoft Windows [Version 10.0.19045.4239]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Dell>aws
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:
aws help
aws <command> help
aws <command> <subcommand> help
aws: error: the following arguments are required: command
C:\Users\Dell>aws --version
aws-cli/2.15.35 Python/3.11.8 Windows/10 exe/AMD64 prompt/off
C:\Users\Dell>


Command Prompt
Microsoft Windows [Version 10.0.19045.4239]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Dell>aws
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:
aws help
aws <command> help
aws <command> <subcommand> help
aws: error: the following arguments are required: command
C:\Users\Dell>aws --version
aws-cli/2.15.35 Python/3.11.8 Windows/10 exe/AMD64 prompt/off
C:\Users\Dell>aws configure
AWS Access Key ID [None]: AKIA2KK3MVGXP7SNC3MX
AWS Secret Access Key [None]: nuuQ/3z9COaxH1CXR4uCQAlYyu7CgqweEy7hvbah
Default region name [None]: us-east-1
Default output format [None]:
C:\Users\Dell>


ECR-SERVER
You are sharing your entire screen.
Stop Sharing
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2 ECR-SERVER
(SSH client, X server and network tools)
SSH session to ec2-user@3.88.100.75
Direct SSH : ✓
SSH compression : ✓
SSH-browser : ✓
X11-forwarding : x (disabled or not supported by server)
For more info, ctrl+click on help or visit our website.
/home/ec2-user/
Name
.ssh
.bash_logout
.bash_profile
.bashrc
Remote monitoring
Follow terminal folder
Amazon Linux 2
AL2 End of Life is 2025-06-30.
A newer version of Amazon Linux is available!
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-31-230 ~]$ sudo su
[root@ip-172-31-31-230 ec2-user]# yum install docker -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package docker.x86_64 0:20.10.25-1.amzn2.0.4 will be installed
--> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.25-1.amzn2.0.4.x86_64
--> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-20.10.25-1.amzn2.0.4.x86_64
--> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.25-1.amzn2.0.4.x86_64
--> Processing Dependency: pigz for package: docker-20.10.25-1.amzn2.0.4.x86_64
--> Running transaction check
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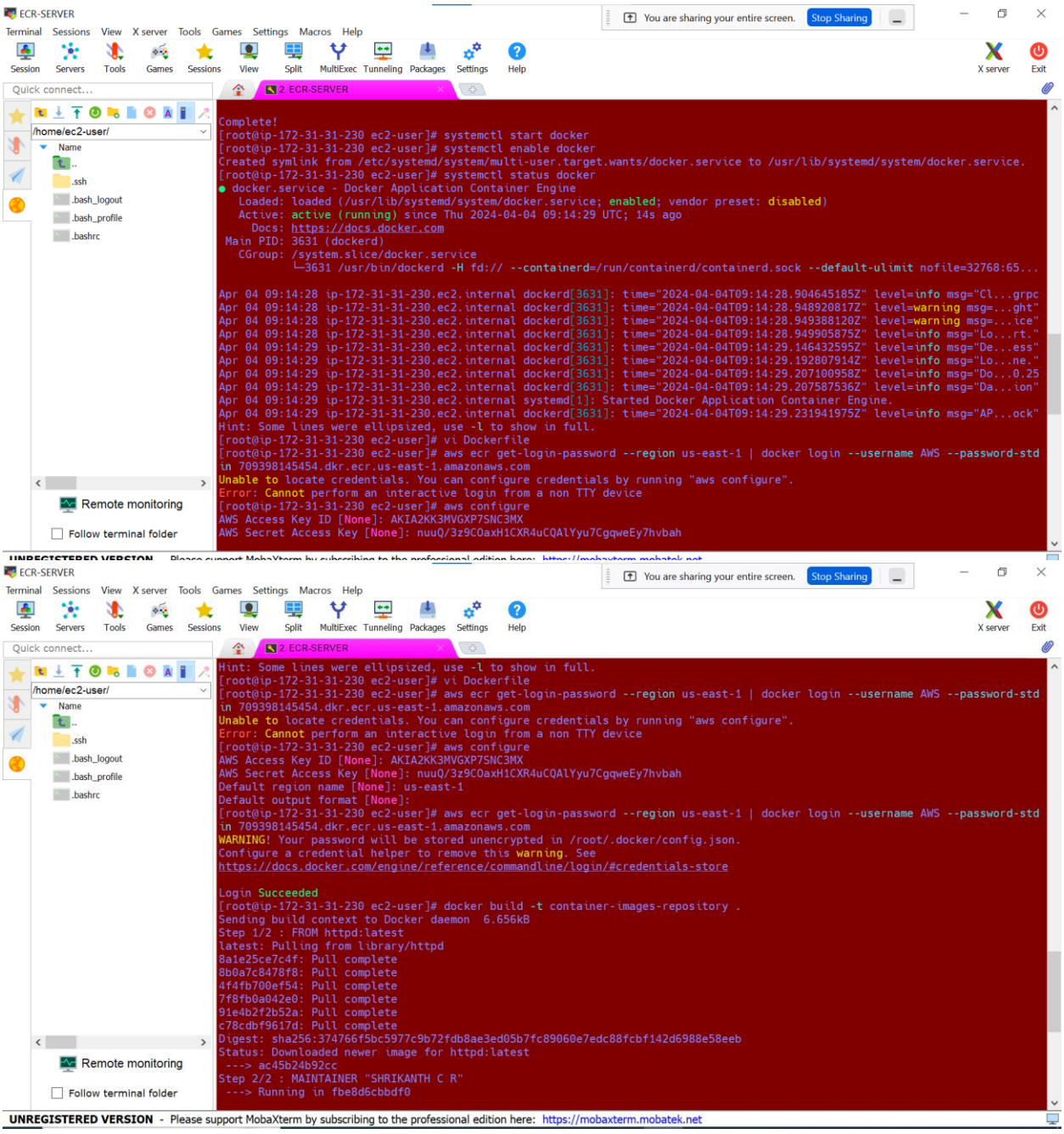
ECR-SERVER
You are sharing your entire screen.
Stop Sharing
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit
Quick connect...
2 ECR-SERVER
/home/ec2-user/
Name
.ssh
.bash_logout
.bash_profile
.bashrc
Remote monitoring
Follow terminal folder
Complete!
[root@ip-172-31-31-230 ec2-user]# systemctl start docker
[root@ip-172-31-31-230 ec2-user]# systemctl enable docker
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.service.
[root@ip-172-31-31-230 ec2-user]# systemctl status docker
● docker.service - Docker Application Container Engine
Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
Active: active (running) since Thu 2024-04-04 09:14:29 UTC; 14s ago
Docs: https://docs.docker.com
Main PID: 3631 (dockerd)
CGroup: /system.slice/docker.service
└─3631 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=32768:65...
Apr 04 09:14:28 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:28.904645185Z" level=info msg="Cl...grpc
Apr 04 09:14:28 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:28.948920817Z" level=warning msg=...ght"
Apr 04 09:14:28 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:28.949388120Z" level=warning msg=...ice"
Apr 04 09:14:28 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:28.949905875Z" level=info msg="Lo...rt."
Apr 04 09:14:29 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:29.146432595Z" level=info msg="De...ess"
Apr 04 09:14:29 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:29.192807914Z" level=info msg="Lo...ne."
Apr 04 09:14:29 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:29.207100958Z" level=info msg="Do...0.25
Apr 04 09:14:29 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:29.207587536Z" level=info msg="Da...ion"
Apr 04 09:14:29 ip-172-31-31-230.ec2.internal systemd[1]: Started Docker Application Container Engine.
Apr 04 09:14:29 ip-172-31-31-230.ec2.internal dockerd[3631]: time="2024-04-04T09:14:29.231941975Z" level=info msg="AP...ock"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-31-230 ec2-user]# vi Dockerfile
[root@ip-172-31-31-230 ec2-user]# aws ecr get-login-password --region us-east-1 | docker login --username AWS --password-std
in 709398145454.dkr.ecr.us-east-1.amazonaws.com
Unable to locate credentials. You can configure credentials by running "aws configure".
Error: Cannot perform an interactive login from a non TTY device
[root@ip-172-31-31-230 ec2-user]# aws configure
AWS Access Key ID [None]: AKIA2KK3MVGXP7SNC3MX
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]:
[root@ip-172-31-31-230 ec2-user]# aws ecr get-login-password --region us-east-1 | docker login --username AWS --password-std
in 709398145454.dkr.ecr.us-east-1.amazonaws.com
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/#credentials-store
Login Succeeded
[root@ip-172-31-31-230 ec2-user]# docker build -t container-images-repository .
Sending build context to Docker daemon 6.656kB
Step 1/2 : FROM httpd:latest
latest: Pulling from library/httpd
8a1e25ce7c4f: Pull complete
8b0a7c8478f8: Pull complete
4f4fb700ef54: Pull complete
7f8fb0a042e0: Pull complete
91e4b2f2b52a: Pull complete
c78cdbf9617d: Pull complete
Digest: sha256:374766f5bc5977c9b72fdb8ae3ed05b7fc89060e7edc88fcbf142d6988e58eeb
Status: Downloaded newer image for httpd:latest
---> ac45b24b92cc
Step 2/2 : MAINTAINER "SHRIKANTH C R"
---> Running in fbe8d6cbbdf0
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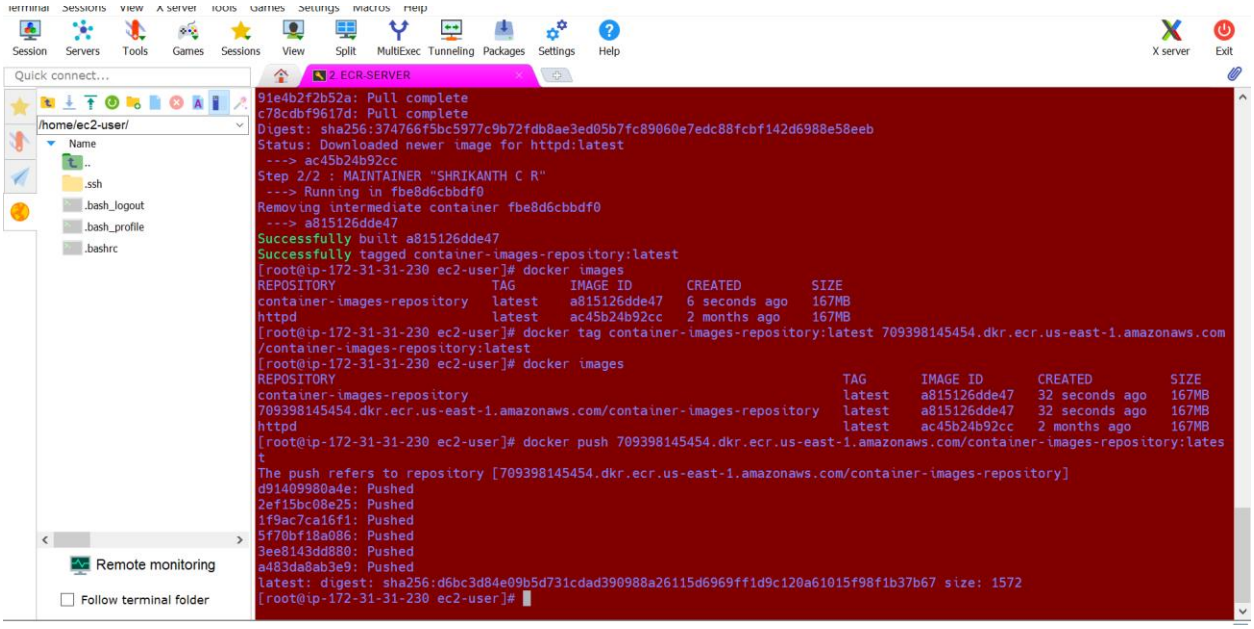
Session
Servers
Tools
Games
Sessions
View
Split
MultiExec
Tunneling
Packages
Settings
Help
X server
Exit
Quick connect...
2 ECR-SERVER
/home/ec2-user/
Name
.ssh
.bash_logout
.bash_profile
.bashrc
Remote monitoring
Follow terminal folder
91e4b2f2b52a: Pull complete
c78cdbf9617d: Pull complete
Digest: sha256:374766f5bc5977c9b72fdb8ae3ed05b7fc89060e7edc88fcbf142d6988e58eeb
Status: Downloaded newer image for httpd:latest
---> ac45b24b92cc
Step 2/2 : MAINTAINER "SHRIKANTH C R"
---> Running in fbe8d6cbbdf0
Removing intermediate container fbe8d6cbbdf0
---> a815126dde47
Successfully built a815126dde47
Successfully tagged container-images-repository:latest
[root@ip-172-31-31-230 ec2-user]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
container-images-repository latest a815126dde47 6 seconds ago 167MB
httpd latest ac45b24b92cc 2 months ago 167MB
[root@ip-172-31-31-230 ec2-user]# docker tag container-images-repository:latest 709398145454.dkr.ecr.us-east-1.amazonaws.com
/container-images-repository:latest
[root@ip-172-31-31-230 ec2-user]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
container-images-repository latest a815126dde47 32 seconds ago 167MB
709398145454.dkr.ecr.us-east-1.amazonaws.com/container-images-repository latest a815126dde47 32 seconds ago 167MB
httpd latest ac45b24b92cc 2 months ago 167MB
[root@ip-172-31-31-230 ec2-user]# docker push 709398145454.dkr.ecr.us-east-1.amazonaws.com/container-images-repository:lates
t
The push refers to repository [709398145454.dkr.ecr.us-east-1.amazonaws.com/container-images-repository]
d91409980a4e: Pushed
2ef15bc08e25: Pushed
1f9ac7ca16f1: Pushed
5f70bf18a086: Pushed
3ee8143dd880: Pushed
a483da8ab3e9: Pushed
latest: digest: sha256:d6bc3d84e09b5d731cdad390988a26115d6969ff1d9c120a61015f98f1b37b67 size: 1572
[root@ip-172-31-31-230 ec2-user]#