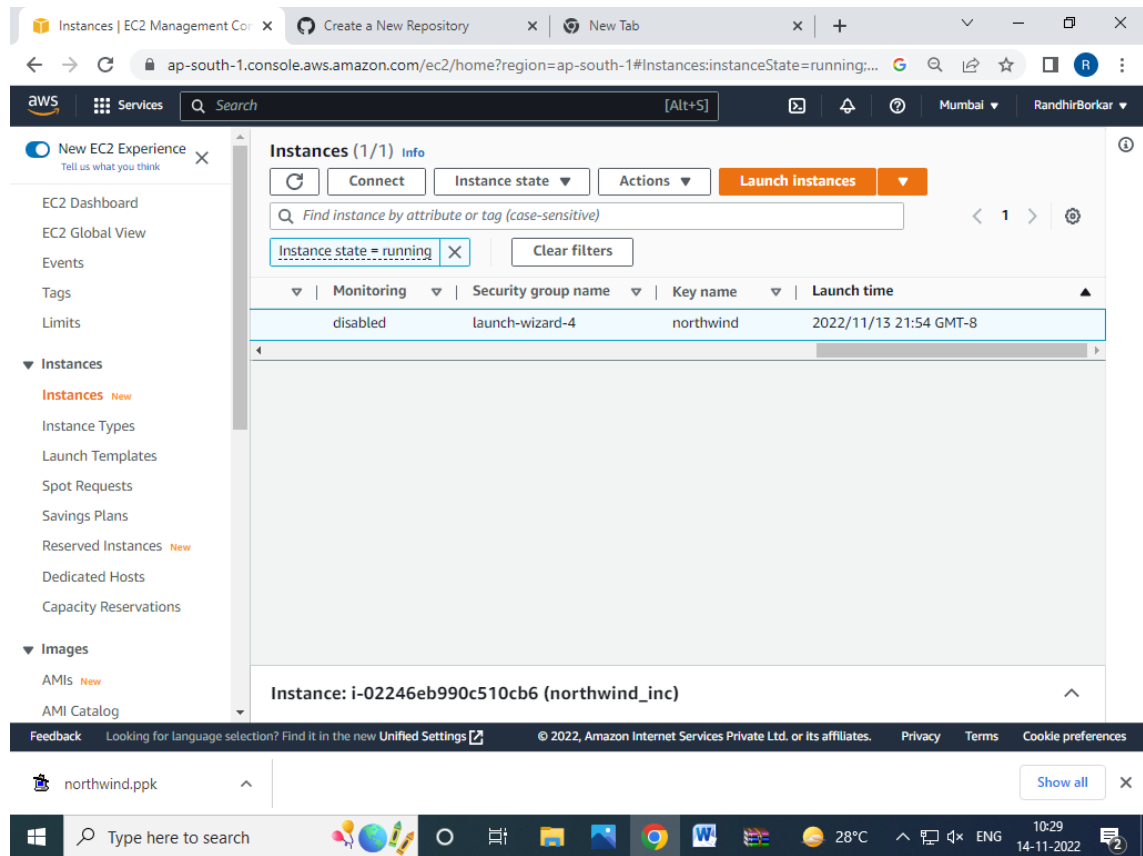


SDM PRACTIACL EXAM (SET 3)
220945920071 Randhir Borkar

SDM PRACTIACL EXAM (SET 3)
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1. Create one virtual machine EC2 instance using AWS (named northwind_inc)



Second screenshot of timing (timing is already wrong and preseted to 2022/11/13 21:54 GMT-8 and can't change during exam)

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The screenshot shows the AWS Management Console interface for the 'ap-south-1' region. The main content area displays the 'Instances (1/1)' page. A filter is applied: 'Instance state = running'. The table below shows one instance:

Monitoring	Security group name	Key name	Launch time
disabled	launch-wizard-4	northwind	2022/11/13 21:54 GMT-8

Below the table, the instance details for 'Instance: i-02246eb990c510cb6 (northwind_inc)' are visible. The left sidebar contains the navigation menu, and the top bar shows the AWS logo and search bar. The bottom bar shows the Windows taskbar with the Start button, search bar, and various application icons.

Putty started

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```
ubuntu@ip-172-31-11-46: ~  
Using username "ubuntu".  
Authenticating with public key "northwind"  
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1019-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Mon Nov 14 06:05:04 UTC 2022  
  
System load:  0.0          Processes:      98  
Usage of /:   19.5% of 7.57GB  Users logged in: 0  
Memory usage: 20%          IPv4 address for eth0: 172.31.11.46  
Swap usage:   0%  
  
0 updates can be applied immediately.  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-11-46:~$
```

Windows taskbar: Type here to search, 28°C, 10:34, 14-11-2022

2. Installing docker engine to newly created ec2 instance

Installing docker

```
ubuntu@ip-172-31-11-46: ~  
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [63.9 kB]  
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [580 B]  
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [747 kB]  
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [123 kB]  
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [4404 B]  
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [7220 B]  
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [2360 B]  
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [420 B]  
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [3008 B]  
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [1432 B]  
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [272 B]  
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]  
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [6744 B]  
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [9360 B]  
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [352 B]  
Get:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]  
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [102 kB]  
Get:33 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [376 kB]  
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [57.6 kB]  
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [606 kB]  
Get:36 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [77.1 kB]  
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [2408 B]  
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4192 B]  
Get:39 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [900 B]  
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [228 B]  
Fetched 24.6 MB in 5s (5201 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
79 packages can be upgraded. Run 'apt list --upgradable' to see them.  
ubuntu@ip-172-31-11-46:~$ sudo apt install docker.io  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan  
Suggested packages:  
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debotstrap docker-doc rinse zfs-fuse | zfsutils  
The following NEW packages will be installed:  
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan  
0 upgraded, 8 newly installed, 0 to remove and 79 not upgraded.  
Need to get 65.6 MB of archives.  
After this operation, 283 MB of additional disk space will be used.  
Do you want to continue? [Y/n]
```

Checking docker status

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```
ubuntu@ip-172-31-11-46: ~  
Adding group 'docker' (GID 121) ...  
Done.  
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -> /lib/systemd/system/docker.service.  
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket -> /lib/systemd/system/docker.socket.  
Processing triggers for dbus (1.12.20-2ubuntu4) ...  
Processing triggers for man-db (2.10.2-1) ...  
Scanning processes...  
Scanning linux images...  
  
Running kernel seems to be up-to-date.  
  
No services need to be restarted.  
  
No containers need to be restarted.  
  
No user sessions are running outdated binaries.  
  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-11-46:~$ sudo apt systemctl status docker  
E: Invalid operation systemctl  
ubuntu@ip-172-31-11-46:~$ sudo systemctl status docker  
● docker.service - Docker Application Container Engine  
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)  
   Active: active (running) since Mon 2022-11-14 06:07:29 UTC; 4min 17s ago  
TriggeredBy: ● docker.socket  
   Docs: https://docs.docker.com  
  Main PID: 2172 (dockerd)  
    Tasks: 7  
  Memory: 37.4M  
     CPU: 268ms  
  CGroup: /system.slice/docker.service  
          └─2172 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock  
  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.447946909Z" level=info msg="scheme \"unix\" not reg  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.448116406Z" level=info msg="ccResolverWrapper: send  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.448276351Z" level=info msg="ClientConn switching bap  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.506363159Z" level=info msg="Loading containers: stab  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.725451333Z" level=info msg="Default bridge (docker0)  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.826445145Z" level=info msg="Loading containers: don  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.908207896Z" level=info msg="Docker daemon" commit=2  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.908681275Z" level=info msg="Daemon has completed in  
Nov 14 06:07:29 ip-172-31-11-46 systemd[1]: Started Docker Application Container Engine.  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.943623641Z" level=info msg="API listen on /run/dock  
lines 1-22/22 (END)
```

3. Creating github repository named northwind

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Instances | EC2 Manage x rdborkar26/northwind: x New Tab x sudo apt systemctl stat x +

github.com/rdborkar26/northwind

Search or jump to... Pull requests Issues Codespaces Marketplace Explore

rdborkar26 / northwind Public

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<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file <> Code

rdborkar26 Initial commit

.gitignore Init

README.md Init

README.md

northwind

northwind for sdm practical exam

About

northwind for sdm practical exam

Readme

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

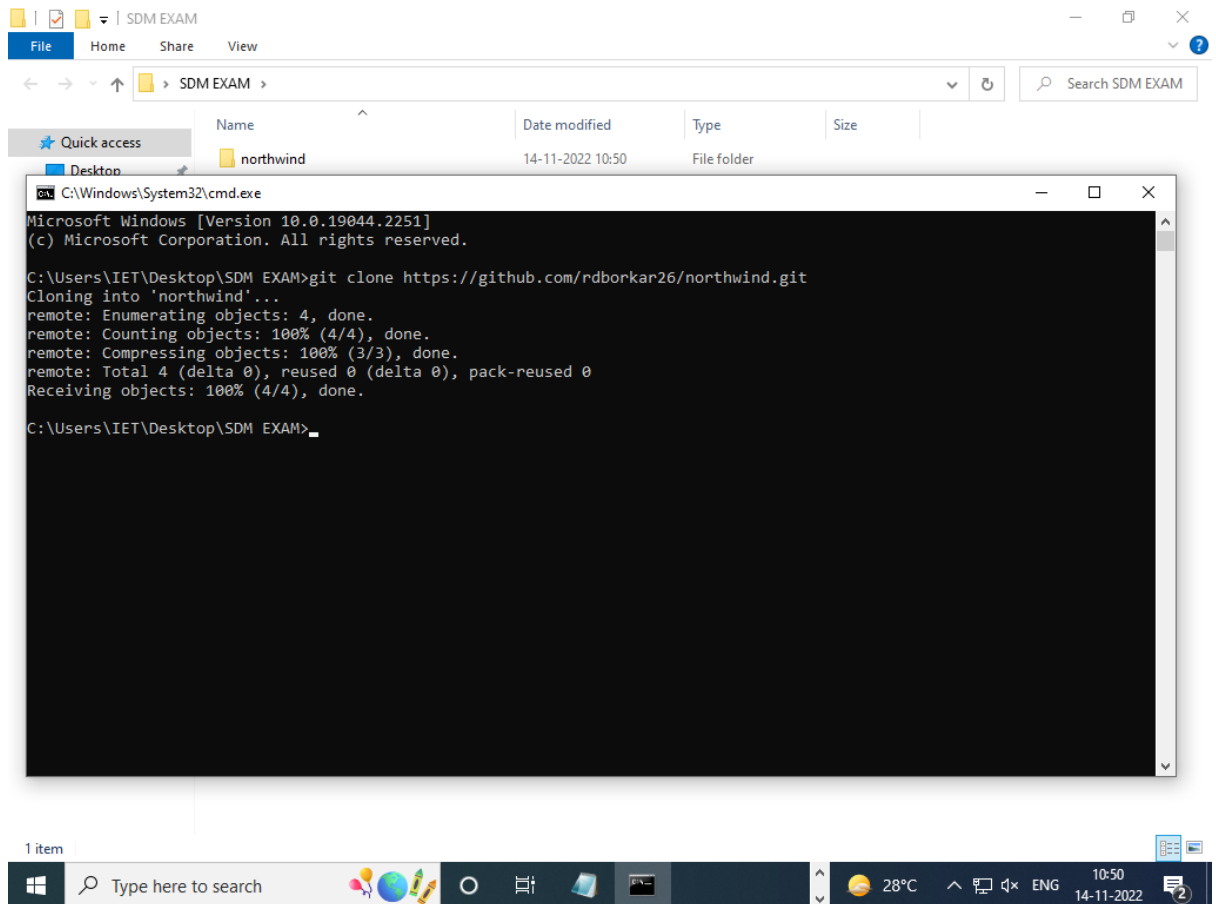
Packages

northwind.ppk Show all

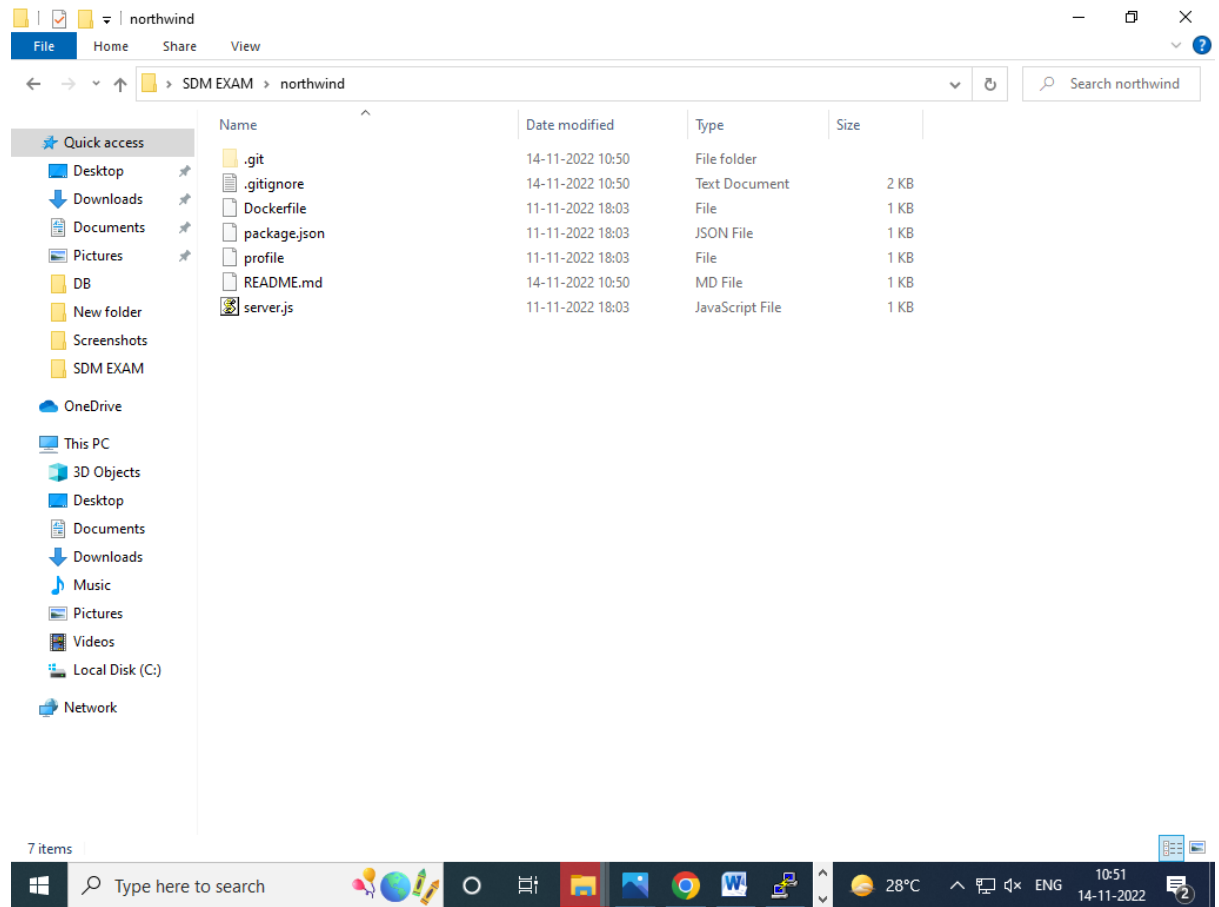
Type here to search

28°C 10:47 14-11-2022

4. Creating local depository on developers machine to clone northwind code repository



5.0 adding files provided for northwind project on developers machine



6.Adding docker file

SDM PRACTIACL EXAM (SET 3)

220945920071 Randhir Borkar

```
C:\Windows\System32\cmd.exe
3 Dir(s) 383,691,010,048 bytes free

C:\Users\IET\Desktop\SDM EXAM>dc northwind
'dc' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\IET\Desktop\SDM EXAM>cd northwind

C:\Users\IET\Desktop\SDM EXAM\northwind>git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Dockerfile
    package.json
    profile
    server.js

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\IET\Desktop\SDM EXAM\northwind>git add .
warning: in the working copy of 'Dockerfile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'profile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'server.js', LF will be replaced by CRLF the next time Git touches it

C:\Users\IET\Desktop\SDM EXAM\northwind>git commit -m "added from local machine"
[main 684946b] added from local machine
 4 files changed, 58 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 package.json
 create mode 100644 profile
 create mode 100644 server.js

C:\Users\IET\Desktop\SDM EXAM\northwind>git push origin main
info: please complete authentication in your browser...
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.29 KiB | 663.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rdborkar26/northwind.git
```

7.0 committing all added files

SDM PRACTIACL EXAM (SET 3)

220945920071 Randhir Borkar

```
C:\Windows\System32\cmd.exe
3 Dir(s) 383,691,010,048 bytes free

C:\Users\IET\Desktop\SDM EXAM>dc northwind
'dc' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\IET\Desktop\SDM EXAM>cd northwind

C:\Users\IET\Desktop\SDM EXAM\northwind>git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Dockerfile
    package.json
    profile
    server.js

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\IET\Desktop\SDM EXAM\northwind>git add .
warning: in the working copy of 'Dockerfile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'profile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'server.js', LF will be replaced by CRLF the next time Git touches it

C:\Users\IET\Desktop\SDM EXAM\northwind>git commit -m "added from local machine"
[main 684946b] added from local machine
 4 files changed, 58 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 package.json
 create mode 100644 profile
 create mode 100644 server.js

C:\Users\IET\Desktop\SDM EXAM\northwind>git push origin main
info: please complete authentication in your browser...
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.29 KiB | 663.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rdborkar26/northwind.git
```

8. pushing changer to github repository

SDM PRACTIACL EXAM (SET 3)

220945920071 Randhir Borkar

```
C:\Windows\System32\cmd.exe
3 Dir(s) 383,691,010,048 bytes free

C:\Users\IET\Desktop\SDM EXAM>dc northwind
'dc' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\IET\Desktop\SDM EXAM>cd northwind

C:\Users\IET\Desktop\SDM EXAM\northwind>git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Dockerfile
    package.json
    profile
    server.js

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\IET\Desktop\SDM EXAM\northwind>git add .
warning: in the working copy of 'Dockerfile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'profile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'server.js', LF will be replaced by CRLF the next time Git touches it

C:\Users\IET\Desktop\SDM EXAM\northwind>git commit -m "added from local machine"
[main 684946b] added from local machine
 4 files changed, 58 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 package.json
 create mode 100644 profile
 create mode 100644 server.js

C:\Users\IET\Desktop\SDM EXAM\northwind>git push origin main
info: please complete authentication in your browser...
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.29 KiB | 663.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rdborkar26/northwind.git
```

```
C:\Windows\System32\cmd.exe
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Dockerfile
    package.json
    profile
    server.js

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\IET\Desktop\SDM EXAM\northwind>git add .
warning: in the working copy of 'Dockerfile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'profile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'server.js', LF will be replaced by CRLF the next time Git touches it

C:\Users\IET\Desktop\SDM EXAM\northwind>git commit -m "added from local machine"
[main 684946b] added from local machine
 4 files changed, 58 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 package.json
 create mode 100644 profile
 create mode 100644 server.js

C:\Users\IET\Desktop\SDM EXAM\northwind>git push origin main
info: please complete authentication in your browser...
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.29 KiB | 663.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rdborkar26/northwind.git
   0af320e..684946b  main -> main

C:\Users\IET\Desktop\SDM EXAM\northwind>
```

9. Installing git to EC2 instance

```
ubuntu@ip-172-31-11-46: ~  
└─2172 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.447946909Z" level=info msg="scheme \"unix\" not reg  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.448116406Z" level=info msg="ccResolverWrapper: send  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.448276351Z" level=info msg="ClientConn switching ba  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.506363159Z" level=info msg="Loading containers: sta  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.725451333Z" level=info msg="Default bridge (docker0)  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.826445145Z" level=info msg="Loading containers: don  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.908207896Z" level=info msg="Docker daemon" commit=2  
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.908681275Z" level=info msg="Daemon has completed in  
Nov 14 06:07:29 ip-172-31-11-46 systemd[1]: Started Docker Application Container Engine.  
ubuntu@ip-172-31-11-46:~$ git --version  
git version 2.34.1  
ubuntu@ip-172-31-11-46:~$ sudo apt install git  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Suggested packages:  
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn  
The following packages will be upgraded:  
  git  
1 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.  
Need to get 3132 kB of archives.  
After this operation, 0 B of additional disk space will be used.  
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-lubuntu1.5 [3132 kB]  
Fetched 3132 kB in 1s (5413 kB/s)  
(Reading database ... 64017 files and directories currently installed.)  
Preparing to unpack .../git_1%3a2.34.1-lubuntu1.5_amd64.deb ...  
Unpacking git (1:2.34.1-lubuntu1.5) over (1:2.34.1-lubuntu1.4) ...  
Setting up git (1:2.34.1-lubuntu1.5) ...  
Scanning processes...  
Scanning linux images...  
  
Running kernel seems to be up-to-date.  
  
No services need to be restarted.  
  
No containers need to be restarted.  
  
No user sessions are running outdated binaries.  
  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-11-46:~$
```

10. clone code repository of northwind to ec2 instance

SDM PRACTIACL EXAM (SET 3)
220945920071 Randhir Borkar

```
ubuntu@ip-172-31-11-46: ~/northwind
Nov 14 06:07:29 ip-172-31-11-46 systemd[1]: Started Docker Application Container Engine.
Nov 14 06:07:29 ip-172-31-11-46 dockerd[2172]: time="2022-11-14T06:07:29.943623641Z" level=info msg="API listen on /run/docker.sock"
ubuntu@ip-172-31-11-46:~$ git --version
git version 2.34.1
ubuntu@ip-172-31-11-46:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following packages will be upgraded:
  git
1 upgraded, 0 newly installed, 0 to remove and 78 not upgraded.
Need to get 3132 kB of archives.
After this operation, 0 B of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/jammy-updates/main amd64 git amd64 1:2.34.1-lubuntul.5 [3132 kB]
Fetched 3132 kB in 1s (5413 kB/s)
(Reading database ... 64017 files and directories currently installed.)
Preparing to unpack .../git_1%3a2.34.1-lubuntul.5_amd64.deb ...
Unpacking git (1:2.34.1-lubuntul.5) over (1:2.34.1-lubuntul.4) ...
Setting up git (1:2.34.1-lubuntul.5) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-11-46:~$ git clone https://github.com/rdborkar26/northwind.git
Cloning into 'northwind'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 10 (delta 0), reused 6 (delta 0), pack-reused 0
Receiving objects: 100% (10/10), done.
ubuntu@ip-172-31-11-46:~$ ls
northwind
ubuntu@ip-172-31-11-46:~$ cd northwind
ubuntu@ip-172-31-11-46:~/northwind$
```

11. creating docker container images for northwind cloned repository in EC2 instance

SDM PRACTIACL EXAM (SET 3)
220945920071 Randhir Borkar

```
ubuntu@ip-172-31-11-46: ~/northwind
After this operation, 0 B of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-lubuntul.5 [3132 kB]
Fetched 3132 kB in 1s (5413 kB/s)
(Reading database ... 64017 files and directories currently installed.)
Preparing to unpack .../git_1%3a2.34.1-lubuntul.5 amd64.deb ...
Unpacking git (1:2.34.1-lubuntul.5) over (1:2.34.1-lubuntul.4) ...
Setting up git (1:2.34.1-lubuntul.5) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-11-46:~$ git clone https://github.com/rdborkar26/northwind.git
Cloning into 'northwind'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 10 (delta 0), reused 6 (delta 0), pack-reused 0
Receiving objects: 100% (10/10), done.
ubuntu@ip-172-31-11-46:~$ ls
northwind
ubuntu@ip-172-31-11-46:~$ cd northwind
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker build -t northwind .
Sending build context to Docker daemon 69.12kB
Step 1/7 : FROM node:7
7: Pulling from library/node
ad74af05f5a2: Extracting [=====>] 12.26MB/52.61MB
2b032b8bbe8b: Download complete
a9a5b35f6ead: Download complete
3245b5alc52c: Downloading [=====>] 94.34MB/131.9MB
afa075743392: Download complete
9fb9f21641cd: Download complete
3f40ad2666bc: Downloading [=====>] 9.521MB/15.68MB
49c0ed396b49: Waiting
```

12. listing down the docker container images in EC2 instance

```
ubuntu@ip-172-31-11-46: ~/northwind
+--- proxy-addr@2.0.7
| +--- forwarded@0.2.0
| | `-- ipaddr.js@1.9.1
+--- qs@6.11.0
| `-- side-channel@1.0.4
|   +--- call-bind@1.0.2
|   | | `-- function-bind@1.1.1
|   | +--- get-intrinsic@1.1.3
|   | | +--- has@1.0.3
|   | | | `-- has-symbols@1.0.3
|   | | `-- object-inspect@1.12.2
+--- range-parser@1.2.1
+--- safe-buffer@5.2.1
+--- send@0.18.0
| +--- mime@1.6.0
| | `-- ms@2.1.3
+--- serve-static@1.15.0
+--- setprototypeof@1.2.0
+--- statuses@2.0.1
+--- type-is@1.6.18
| `-- media-typer@0.3.0
+--- utils-merge@1.0.1
`-- vary@1.1.2

npm info ok
Removing intermediate container 6b8bcebe7d57
--> 1851c6875546
Step 5/7 : COPY . /app
--> a0699541fd22
Step 6/7 : CMD node server.js
--> Running in 45df1e20be4e
Removing intermediate container 45df1e20be4e
--> 165ac9df4baf
Step 7/7 : EXPOSE 9000
--> Running in 32514c4da9bd
Removing intermediate container 32514c4da9bd
--> 7f9ca7c9cc7d
Successfully built 7f9ca7c9cc7d
Successfully tagged northwind:latest
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker images
REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
northwind    latest    7f9ca7c9cc7d   5 seconds ago  667MB
node         7         d9aed20b68a4   5 years ago    660MB
ubuntu@ip-172-31-11-46:~/northwind$
```

13. running docker container images to launch instance of container

SDM PRACTIACL EXAM (SET 3)
220945920071 Randhir Borkar

```
ubuntu@ip-172-31-11-46: ~/northwind
| |-- side-channel@1.0.4
| |   |-- call-bind@1.0.2
| |     |   |-- function-bind@1.1.1
| |     |   |-- get-intrinsic@1.1.3
| |     |   |-- has@1.0.3
| |     |   |-- has-symbols@1.0.3
| |     |   |-- object-inspect@1.12.2
| |   |-- range-parser@1.2.1
| |   |-- safe-buffer@5.2.1
| |   |-- send@0.18.0
| |   |-- mime@1.6.0
| |   |-- ms@2.1.3
| |   |-- serve-static@1.15.0
| |   |-- setprototypeof@1.2.0
| |   |-- statuses@2.0.1
| |   |-- type-is@1.6.18
| |   |-- media-typer@0.3.0
| |   |-- utils-merge@1.0.1
| |   |-- vary@1.1.2
|
npm info ok
Removing intermediate container 6b8bcebe7d57
--> 1851c6875546
Step 5/7 : COPY . /app
--> a0699541fd22
Step 6/7 : CMD node server.js
--> Running in 45df1e20be4e
Removing intermediate container 45df1e20be4e
--> 165ac9df4baf
Step 7/7 : EXPOSE 9000
--> Running in 32514c4da9bd
Removing intermediate container 32514c4da9bd
--> 7f9ca7c9cc7d
Successfully built 7f9ca7c9cc7d
Successfully tagged northwind:latest
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
northwind latest 7f9ca7c9cc7d 5 seconds ago 667MB
node 7 d9aed20b68a4 5 years ago 660MB
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker run --name northwindserver -d -p 9000:9000 northwind
88724fbccf31409ef53d8b1f2462d6db6421e6c63913e0b8b74029965bd333eb
ubuntu@ip-172-31-11-46:~/northwind$
```

14. listing down container instance using docker in EC2 instance

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```
ubuntu@ip-172-31-11-46: ~/northwind
| | '-- has-symbols@1.0.3
| | '-- object-inspect@1.12.2
+-- range-parser@1.2.1
+-- safe-buffer@5.2.1
+-- send@0.18.0
| +-- mime@1.6.0
| |-- ms@2.1.3
+-- serve-static@1.15.0
+-- setprototypeof@1.2.0
+-- statuses@2.0.1
+-- type-is@1.6.18
| '-- media-typer@0.3.0
+-- utils-merge@1.0.1
 '-- vary@1.1.2

npm info ok
Removing intermediate container 6b8bcebe7d57
--> 1851c6875546
Step 5/7 : COPY . /app
--> a0699541fd22
Step 6/7 : CMD node server.js
--> Running in 45df1e20be4e
Removing intermediate container 45df1e20be4e
--> 165ac9df4baf
Step 7/7 : EXPOSE 9000
--> Running in 32514c4da9bd
Removing intermediate container 32514c4da9bd
--> 7f9ca7c9cc7d
Successfully built 7f9ca7c9cc7d
Successfully tagged northwind:latest
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
northwind latest 7f9ca7c9cc7d 5 seconds ago 667MB
node 7 d9aed20b68a4 5 years ago 660MB
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker run --name northwindserver -d -p 9000:9000 northwind
88724fbccf31409ef53d881f2462d6db6421e6c63913e0b8b74029965bd333eb
ubuntu@ip-172-31-11-46:~/northwind$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
88724fbccf31 northwind "/bin/sh -c 'node se..." 2 minutes ago Up 2 minutes 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp
northwindserver
ubuntu@ip-172-31-11-46:~/northwind$
```

15. enable all traffic from anywhere by setting inbound rule of security group assigned to EC2 instance

SDM PRACTIACL EXAM (SET 3)
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EC2 Management Console x rdborkar26/northwind: northwind x 43.204.220.161:9000

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRu...

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules [Info](#)

Inbound rule 1 [Delete](#)

Security group rule ID
sgr-026e9b973e1252dde

Type [Info](#)
SSH

Protocol [Info](#)
TCP

Port range [Info](#)
22

Source type [Info](#)
Custom

Source [Info](#)
0.0.0.0/0 X

Description - optional [Info](#)

Inbound rule 2 [Delete](#)

Security group rule ID

Type [Info](#)

Protocol [Info](#)

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EC2 Management Console x rdborkar26/northwind: northwind x 43.204.220.161:9000

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRu...

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules [Info](#)

Inbound rule 2 [Delete](#)

Security group rule ID
sgr-0eee9c00bc9f30a33

Type [Info](#)
All traffic

Protocol [Info](#)
All

Port range [Info](#)
All

Source type [Info](#)
Custom

Source [Info](#)
0.0.0.0/0 X

Description - optional [Info](#)

Inbound rule 3 [Delete](#)

Security group rule ID
sgr-0916ddec3de8b9f31

Type [Info](#)
HTTP

Protocol [Info](#)
TCP

Port range [Info](#)
80

Source type [Info](#)
Custom

Source [Info](#)
0.0.0.0/0 X

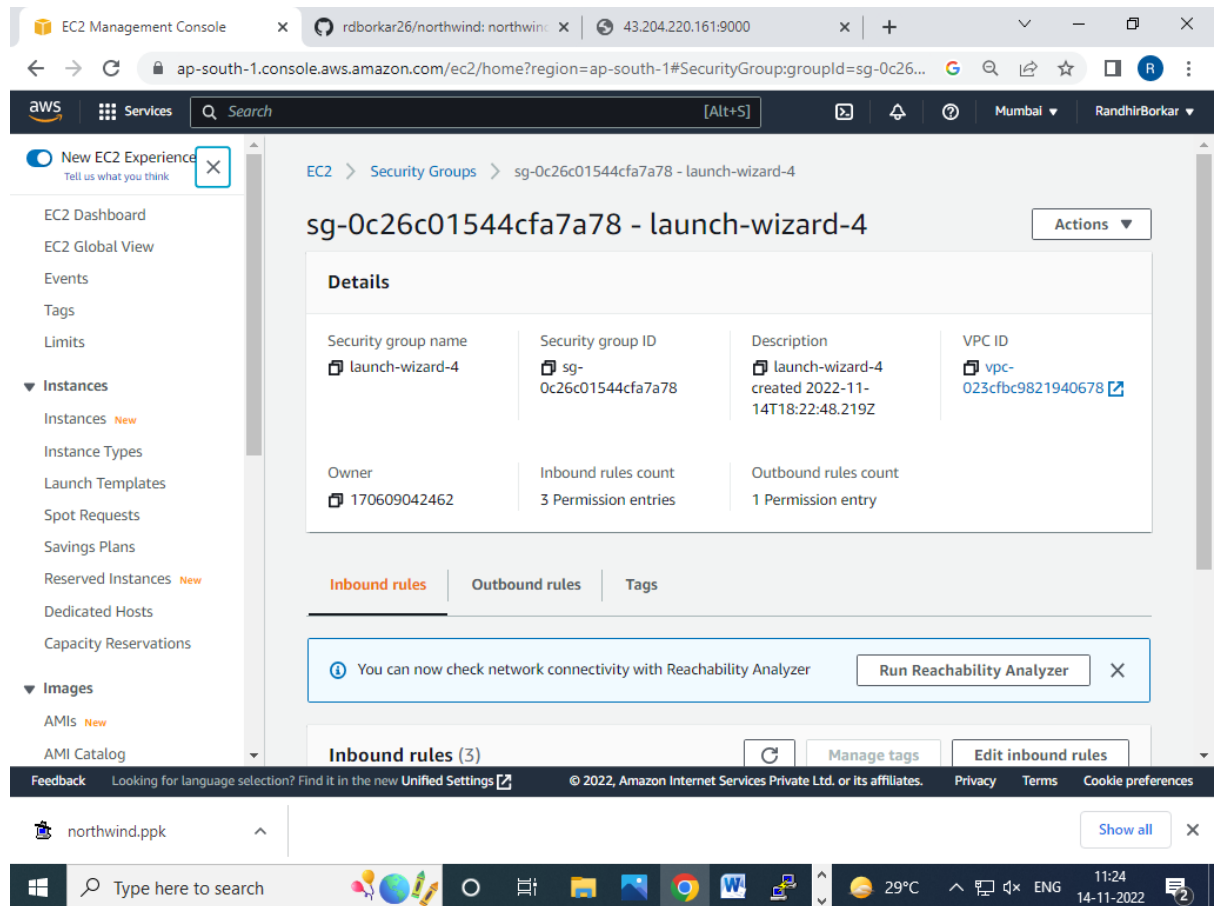
Description - optional [Info](#)

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16. invoking url of northwind portal from chrome browser

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EC2 Management Console x | rdborkar26/northwind: northwind x | 43.204.220.161:9000 x + -

← → ↻ Not secure | 43.204.220.161:9000

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