

# Project 1

1) Screenshot of AWS Console showing the instance running and the volumes you allocated on EBS:

Instance is running and up:

The screenshot shows the AWS Management Console for the us-east-1 region. The left sidebar contains navigation links for Events, Instances, Images, Elastic Block Store, and Network & Security. The main content area displays the 'Instances (1/1)' page. A table lists the instance 'Application\_D...' with ID 'i-Oe950afbb1334e3e1', state 'Running', and type 't2.small'. Below the table, the 'Details' tab for instance 'i-Oe950afbb1334e3e1 (Application\_Deployment)' is selected. The 'Instance summary' section shows the instance ID, IPv6 address, and instance state 'Running'. The 'Public IPv4 address' is '54.175.142.209' and the 'Private IPv4 addresses' are '172.31.39.74'. The 'Public IPv4 DNS' is 'ec2-54-175-142-209.compute-1.amazonaws.com'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Application_D...	i-Oe950afbb1334e3e1	Running	t2.small	2/2 checks passed	View alarms +

**i-Oe950afbb1334e3e1 (Application\_Deployment)**

**Instance summary**

Instance ID: i-Oe950afbb1334e3e1

IPv6 address: -

Public IPv4 address: 54.175.142.209 | open address

Instance state: Running

Private IPv4 addresses: 172.31.39.74

Public IPv4 DNS: ec2-54-175-142-209.compute-1.amazonaws.com

Volumes attached:

The screenshot shows the AWS Management Console for the us-east-1 region. The left sidebar contains navigation links for Events, Instances, Images, Elastic Block Store, and Network & Security. The main content area displays the 'Instances (1/1)' page. A table lists the instance 'Application\_D...' with ID 'i-Oe950afbb1334e3e1', state 'Running', and type 't2.small'. Below the table, the 'Details' tab for instance 'i-Oe950afbb1334e3e1 (Application\_Deployment)' is selected. The 'Block devices' section shows a list of attached EBS volumes.

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time
vol-01865549554db9b57	/dev/xvda	8	Attached	2025/01/31 12:38 GMT-5
vol-0fda047ddaba85645	/dev/sdb	1	Attached	2025/01/31 12:38 GMT-5

**i-Oe950afbb1334e3e1 (Application\_Deployment)**

**Block devices**

Filter block devices

Volume monitoring (1)

2) Linux command “df” in instance:

```
[ec2-user@ip-172-31-39-74 ~]$  
[ec2-user@ip-172-31-39-74 ~]$ df  
Filesystem      1K-blocks    Used Available Use% Mounted on  
devtmpfs         993748        0    993748   0% /dev  
tmpfs            1003088        0    1003088   0% /dev/shm  
tmpfs            1003088     572    1002516   1% /run  
tmpfs            1003088        0    1003088   0% /sys/fs/cgroup  
/dev/xvda1       8376300 3299184    5077116  40% /  
/dev/xvdb        998060    47596    898036   6% /data  
tmpfs            200620        0    200620   0% /run/user/1000  
[ec2-user@ip-172-31-39-74 ~]$  
[ec2-user@ip-172-31-39-74 ~]$
```

“fdisk -l” command:

```
[ec2-user@ip-172-31-39-74 ~]$ sudo fdisk -l  
Disk /dev/xvda: 8 GiB, 8589934592 bytes, 16777216 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: gpt  
Disk identifier: C19EA533-E536-46F1-B7F1-2B3696B3C827  
  
Device          Start      End  Sectors  Size Type  
/dev/xvda1       4096 16777182 16773087    8G Linux filesystem  
/dev/xvda128     2048      4095     2048    1M BIOS boot  
  
Partition table entries are not in disk order.  
  
Disk /dev/xvdb: 1 GiB, 1073741824 bytes, 2097152 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
[ec2-user@ip-172-31-39-74 ~]$  
[ec2-user@ip-172-31-39-74 ~]$
```

3) Running docker inspect on the database and application containers.

Output for container “cs548db”:

```
[ec2-user@ip-172-31-39-74 ~]$ docker inspect cs548db  
[  
  {  
    "Id": "afc39c0fe8ec27332716494aa09fd669256776003f8b9e101b7f27766d9d99ab",  
    "Created": "2025-01-31T17:50:16.142385747Z",  
    "Path": "docker-entrypoint.sh",  
    "Args": [  
      "postgres"  
    ],  
    "State": {  
      "Status": "running",  
      "Running": true,  
      "Paused": false,  
      "Restarting": false,  
      "OOMKilled": false,  
      "Dead": false,  
      "Pid": 3621,  
      "ExitCode": 0,  
      "Error": "",  
      "StartedAt": "2025-01-31T19:18:28.035479607Z",  
      "FinishedAt": "2025-01-31T19:16:49.960664411Z"  
    },  
    "Image": "sha256:9a0ce6be5dd4a74a9b9c1e4709f8cc8496ce2ee09adcb64c2689a03e78c2e5214",  
    "ResolvConfPath": "/var/lib/docker/containers/afc39c0fe8ec27332716494aa09fd669256776003f8b9e101b7f27766d9d99ab/resolv.conf",  
    "HostnamePath": "/var/lib/docker/containers/afc39c0fe8ec27332716494aa09fd669256776003f8b9e101b7f27766d9d99ab/hostname",  
    "HostsPath": "/var/lib/docker/containers/afc39c0fe8ec27332716494aa09fd669256776003f8b9e101b7f27766d9d99ab/hosts",  
    "LogPath":  
"/var/lib/docker/containers/afc39c0fe8ec27332716494aa09fd669256776003f8b9e101b7f27766d9d99ab/afc39c0fe8ec27332716494aa09fd669256776003f8b9e101b7f27766d9d99ab-json.log",  
    "Name": "/cs548db",  
    "RestartCount": 0,  
    "Driver": "overlay2",  
    "Platform": "linux",  
    "MountLabel": "",  
    "ProcessLabel": ""  
  }  
]
```

```

"AppArmorProfile": "",
"ExecIDs": null,
"HostConfig": {
  "Binds": [
    "/data:/var/lib/postgresql/data"
  ],
  "ContainerIDFile": "",
  "LogConfig": {
    "Type": "json-file",
    "Config": {}
  },
  "NetworkMode": "cs548-network",
  "PortBindings": {
    "5432/tcp": [
      {
        "HostIp": "",
        "HostPort": "5432"
      }
    ]
  },
  "RestartPolicy": {
    "Name": "no",
    "MaximumRetryCount": 0
  },
  "AutoRemove": false,
  "VolumeDriver": "",
  "VolumesFrom": null,
  "ConsoleSize": [
    31,
    115
  ],
  "CapAdd": null,
  "CapDrop": null,
  "CgroupsMode": "host",
  "Dns": [],
  "DnsOptions": [],
  "DnsSearch": [],
  "ExtraHosts": null,
  "GroupAdd": null,
  "IpcMode": "private",
  "Cgroup": "",
  "Links": null,
  "OomScoreAdj": 0,
  "PidMode": "",
  "Privileged": false,
  "PublishAllPorts": false,
  "ReadonlyRootfs": false,
  "SecurityOpt": null,
  "UTSMode": "",
  "UsernsMode": "",
  "ShmSize": 67108864,
  "Runtime": "runc",
  "Isolation": "",
  "CpuShares": 0,
  "Memory": 0,
  "NanoCpus": 0,
  "CgroupParent": "",
  "BlkioWeight": 0,
  "BlkioWeightDevice": [],
  "BlkioDeviceReadBps": [],
  "BlkioDeviceWriteBps": [],
  "BlkioDeviceReadIOps": [],
  "BlkioDeviceWriteIOps": [],
  "CpuPeriod": 0,
  "CpuQuota": 0,
  "CpuRealtimePeriod": 0,
  "CpuRealtimeRuntime": 0,
  "CpusetCpus": "",
  "CpusetMems": "",
  "Devices": [],
  "DeviceCgroupRules": null,
  "DeviceRequests": null,
  "MemoryReservation": 0,
  "MemorySwap": 0,
  "MemorySwappiness": null,
  "OomKillDisable": false,
  "PidsLimit": null,
  "Ulimits": [
    {
      "Name": "nofile",
      "Hard": 65536,
      "Soft": 32768
    }
  ],
  "CpuCount": 0,
  "CpuPercent": 0,
  "IOMaximumIOps": 0,
  "IOMaximumBandwidth": 0,
  "MaskedPaths": [
    "/proc/asound",
    "/proc/acpi",
    "/proc/kcore",
    "/proc/keys",
    "/proc/latency_stats",
    "/proc/timer_list",
    "/proc/timer_stats",
    "/proc/sched_debug",
    "/proc/scsi",
    "/sys/firmware",

```

```

"/sys/devices/virtual/powercap"
],
"ReadOnlyPaths": [
"/proc/bus",
"/proc/fs",
"/proc/irq",
"/proc/sys",
"/proc/sysrq-trigger"
]
},
"GraphDriver": {
"Data": {
"LowerDir":
"/var/lib/docker/overlay2/ea5da4af97bd8638daalef670b6c1a6a000f2aab77dffcd09f168c9a17174408-init/diff:/var/lib/docker/overlay2/2b7d23dddec639121e941a54788223cfa8eed28fef788323a1285f5fd5120eb9/diff:/var/lib/docker/overlay2/6d6e692376ccd7552ef426ae095a755ab4b898ffc8ae1dcb61e91969736a3744/diff:/var/lib/dock
er/overlay2/612652a712c6b08b28f1762b1374f5e26e0cd22d2fa707b2b6afa30c84e89f40/diff:/var/lib/docker/overlay2/18f0500fe9c5e41e9b346623f313d5ebb8442b37fe95775d6ff783a0c104eac3/diff:/var/lib/docker/overlay2/4ad9bbbfa05a965b0cf45303229d81b02a48cb81b3ab2d34cf10c593e289ceaf/diff:/var/lib/docker/overlay2/5e79db50cb328ab61a8e5143d61ac8b27ab4fa68e9106795c13199df7998eee0/diff:/var/lib/docker/overlay2/70d95eac9f3dbed3656c0375ec3bc030acfc6f3b1504ace5075b507a99f29bff/diff:/var/lib/docker/overlay2/0474dea494e995ef53b7b16ddcad658521298957ce16672de0e65368cec7cf30/diff:/var/lib/docker/overlay2/7bd6887286b842c5c45b832118fa4b2010a31d2062840fc35dad34a3c79a8d05/diff:/var/lib/docker/overlay2/6b2df9c6048a0f26b59afd8c7a6031c651cd7a5ec190ceac9bb2eead47bcfc56/diff:/var/lib/dock
er/overlay2/cfbffab2727875a95alc74098354cff727919f64977a83da10492b796ca97df/diff:/var/lib/docker/overlay2/edc2alecd20e3c1f5fab125226d55e00e943d803d823a13a855dda75d8a1aedb/diff:/var/lib/docker/overlay2/e2c496838959c6936cb6da145259e043192d9e8aa5e633ce0cd6ae35e44ab1c8/diff:/var/lib/docker/overlay2/530211c39da7cd35e0c9895d5db9dee767cec9aa7cf770e63018ec08db586f/diff",
"MergedDir": "/var/lib/docker/overlay2/ea5da4af97bd8638daalef670b6c1a6a000f2aab77dffcd09f168c9a17174408/merged",
"UpperDir": "/var/lib/docker/overlay2/ea5da4af97bd8638daalef670b6c1a6a000f2aab77dffcd09f168c9a17174408/diff",
"WorkDir": "/var/lib/docker/overlay2/ea5da4af97bd8638daalef670b6c1a6a000f2aab77dffcd09f168c9a17174408/work"
},
"Name": "overlay2"
},
"Mounts": [
{
"Type": "bind",
"Source": "/data",
"Destination": "/var/lib/postgresql/data",
"Mode": "",
"RW": true,
"Propagation": "rprivate"
}
],
"Config": {
"Hostname": "afc39c0fe8ec",
"Domainname": "",
"User": "",
"AttachStdin": false,
"AttachStdout": false,
"AttachStderr": false,
"ExposedPorts": {
"5432/tcp": {}
},
"TTY": false,
"OpenStdin": false,
"StdinOnce": false,
"Env": [
"POSTGRES_PASSWORD=ASSIGNMENT1",
"PGDATA=/var/lib/postgresql/data/pgdata",
"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/lib/postgresql/17/bin",
"GOSU_VERSION=1.17",
"LANG=en_US.utf8",
"PG_MAJOR=17",
"PG_VERSION=17.2-1.pgdgl20+1"
],
"Cmd": [
"postgres"
],
"Image": "postgres",
"Volumes": {
"/var/lib/postgresql/data": {}
},
"WorkingDir": "",
"Entrypoint": [
"docker-entrypoint.sh"
],
"OnBuild": null,
"Labels": {},
"StopSignal": "SIGINT"
},
"NetworkSettings": {
"Bridge": "",
"SandboxID": "83b3c39ed876127333fcee9578fec77795c0273246f4120aa33f901386136ea47",
"SandboxKey": "/var/run/docker/netns/83b3c39ed876",
"Ports": {
"5432/tcp": [
{
"HostIp": "0.0.0.0",
"HostPort": "5432"
},
{
"HostIp": ":::",
"HostPort": "5432"
}
]
}
},
"HairpinMode": false,
"LinkLocalIPv6Address": "",
"LinkLocalIPv6PrefixLen": 0,
"SecondaryIPAddresses": null,
"SecondaryIPv6Addresses": null,
"EndpointID": "",
"Gateway": ""

```

```

"GlobalIPv6Address": "",
"GlobalIPv6PrefixLen": 0,
"IPAddress": "",
"IPPrefixLen": 0,
"IPv6Gateway": "",
"MacAddress": "",
"Networks": {
  "cs548-network": {
    "IPAMConfig": null,
    "Links": null,
    "Aliases": [
      "afc39c0fe8ec"
    ],
    "MacAddress": "02:42:ac:12:00:03",
    "NetworkID": "ce37ace22dc56f5973a1d5fa910288a9496785caf984703a367bb34f39727d63",
    "EndpointID": "c321fd78aba7856bd429a3a53da57712155589324e4661d6d5f040bd660d4770",
    "Gateway": "172.18.0.1",
    "IPAddress": "172.18.0.3",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "DriverOpts": null,
    "DNSNames": [
      "cs548db",
      "afc39c0fe8ec"
    ]
  }
}
}
[ec2-user@ip-172-31-39-74 ~]$
[ec2-user@ip-172-31-39-74 ~]$

```

## Output for container “chat”:

```

[ec2-user@ip-172-31-39-74 ~]$ docker inspect chat
[
  {
    "Id": "91fc803039ae4683b6b37e557236418639501693ad115b1309aae3e0243e9550",
    "Created": "2025-01-31T18:01:50.133342172Z",
    "Path": "/bin/sh",
    "Args": [
      "entrypoint.sh",
      "--contextroot",
      "chat",
      "--deploy",
      "/opt/payara/deployments/chat-webapp.war"
    ],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 3612,
      "ExitCode": 0,
      "Error": "",
      "StartedAt": "2025-01-31T19:18:27.970570948Z",
      "FinishedAt": "2025-01-31T19:16:50.556093933Z"
    },
    "Image": "sha256:64e2ff76315a04f45c9c35c62f024e2dbdd187c186d008506b11267993f8670f",
    "ResolvConfPath": "/var/lib/docker/containers/91fc803039ae4683b6b37e557236418639501693ad115b1309aae3e0243e9550/resolv.conf",
    "HostnamePath": "/var/lib/docker/containers/91fc803039ae4683b6b37e557236418639501693ad115b1309aae3e0243e9550/hostname",
    "HostsPath": "/var/lib/docker/containers/91fc803039ae4683b6b37e557236418639501693ad115b1309aae3e0243e9550/hosts",
    "LogPath": "/var/lib/docker/containers/91fc803039ae4683b6b37e557236418639501693ad115b1309aae3e0243e9550/91fc803039ae4683b6b37e557236418639501693ad115b1309aae3e0243e9550-json.log",
    "Name": "/chat",
    "RestartCount": 0,
    "Driver": "overlay2",
    "Platform": "linux",
    "MountLabel": "",
    "ProcessLabel": "",
    "AppArmorProfile": "",
    "ExecIDs": null,
    "HostConfig": {
      "Binds": null,
      "ContainerIDFile": "",
      "LogConfig": {
        "Type": "json-file",
        "Config": {}
      },
      "NetworkMode": "cs548-network",
      "PortBindings": {
        "8080/tcp": [
          {
            "HostIp": "",
            "HostPort": "8080"
          }
        ],
        "8181/tcp": [
          {
            "HostIp": "",
            "HostPort": "8181"
          }
        ]
      }
    }
  }
]

```

```

    }
  },
  "RestartPolicy": {
    "Name": "no",
    "MaximumRetryCount": 0
  },
  "AutoRemove": false,
  "VolumeDriver": "",
  "VolumesFrom": null,
  "ConsoleSize": [
    31,
    115
  ],
  "CapAdd": null,
  "CapDrop": null,
  "CgroupnsMode": "host",
  "Dns": [],
  "DnsOptions": [],
  "DnsSearch": [],
  "ExtraHosts": null,
  "GroupAdd": null,
  "IpcMode": "private",
  "Cgroup": "",
  "Links": null,
  "OomScoreAdj": 0,
  "PidMode": "",
  "Privileged": false,
  "PublishAllPorts": false,
  "ReadonlyRootfs": false,
  "SecurityOpt": null,
  "UTSMode": "",
  "UsernsMode": "",
  "ShmSize": 67108864,
  "Runtime": "runc",
  "Isolation": "",
  "CpuShares": 0,
  "Memory": 0,
  "NanoCpus": 0,
  "CgroupParent": "",
  "BlkioWeight": 0,
  "BlkioWeightDevice": [],
  "BlkioDeviceReadBps": [],
  "BlkioDeviceWriteBps": [],
  "BlkioDeviceReadIOps": [],
  "BlkioDeviceWriteIOps": [],
  "CpuPeriod": 0,
  "CpuQuota": 0,
  "CpuRealtimePeriod": 0,
  "CpuRealtimeRuntime": 0,
  "CpusetCpus": "",
  "CpusetMems": "",
  "Devices": [],
  "DeviceCgroupRules": null,
  "DeviceRequests": null,
  "MemoryReservation": 0,
  "MemorySwap": 0,
  "MemorySwappiness": null,
  "OomKillDisable": false,
  "PidsLimit": null,
  "Ulimits": [
    {
      "Name": "nofile",
      "Hard": 65536,
      "Soft": 32768
    }
  ],
  "CpuCount": 0,
  "CpuPercent": 0,
  "IOMaximumIOps": 0,
  "IOMaximumBandwidth": 0,
  "MaskedPaths": [
    "/proc/asound",
    "/proc/acpi",
    "/proc/kcore",
    "/proc/keys",
    "/proc/latency_stats",
    "/proc/timer_list",
    "/proc/timer_stats",
    "/proc/sched_debug",
    "/proc/scsi",
    "/sys/firmware",
    "/sys/devices/virtual/powercap"
  ],
  "ReadonlyPaths": [
    "/proc/bus",
    "/proc/fs",
    "/proc/irq",
    "/proc/sys",
    "/proc/sysrq-trigger"
  ]
},
  "GraphDriver": {
    "Data": {
      "LowerDir":
"/var/lib/docker/overlay2/407a627425b8ade5418f351475f7e85190129d0195a5e6c4d86688d139c08936-init/diff:/var/lib/docker/overlay2/1fj5dpmn1hmk51vl3iur3371/diff:/var/lib/docker/overlay2/dd5dcf11bbff13fec373b02ac0e915b3b287d271f2e93c0af79a87f349e9f9d0/diff:/var/lib/docker/overlay2/475a2f79ff4fe7cd2a84f19ea8849b00648a56e1435007e7a6d99d5e2bd6cbc6/diff:/var/lib/docker/overlay2/f11149ea9d14f0fc573bed42133c7a37cd3e5da2ad7f0b90ab31e16630e7487/diff:/var/lib/docker/overlay2/460d645bfbb9e07374071e83d7212e0b489a2222d009abf97a75dc85146a5578/diff:/var/lib/docker/overlay2/a4f31cb9e3f3d25e865614c9fbf202b01be9700d44ffe6

```

```
09d56542395ed8073f/diff:/var/lib/docker/overlay2/617cbcccb803aae860468e716a22bacfe43b06bcaa0b3ed2c15c3dea3830e1a/diff",
  "MergedDir": "/var/lib/docker/overlay2/407a627425b8ade5418f351475f7e85190129d0195a5e6c4d86688d139c08936/merged",
  "UpperDir": "/var/lib/docker/overlay2/407a627425b8ade5418f351475f7e85190129d0195a5e6c4d86688d139c08936/diff",
  "WorkDir": "/var/lib/docker/overlay2/407a627425b8ade5418f351475f7e85190129d0195a5e6c4d86688d139c08936/work"
},
  "Name": "overlay2"
},
  "Mounts": [],
  "Config": {
    "Hostname": "91fc803039ae",
    "Domainname": "",
    "User": "payara",
    "AttachStdin": false,
    "AttachStdout": false,
    "AttachStderr": false,
    "ExposedPorts": {
      "6900/tcp": {},
      "8080/tcp": {},
      "8181/tcp": {}
    },
    "Tty": false,
    "OpenStdin": false,
    "StdinOnce": false,
    "Env": [
      "DATABASE=cs548",
      "DATABASE_HOST=cs548db",
      "DATABASE_USERNAME=cs548user",
      "DATABASE_PASSWORD=cs548",
      "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
      "LANG=en_US.UTF-8",
      "LANGUAGE=en_US:en",
      "LC_ALL=en_US.UTF-8",
      "TZ=Etc/UTC",
      "JAVA_HOME=/usr/lib/jvm/zulu21",
      "PAYARA_HOME=/opt/payara",
      "HOME_DIR=/opt/payara",
      "PAYARA_DIR=/opt/payara",
      "SCRIPT_DIR=/opt/payara",
      "DEPLOY_DIR=/opt/payara/deployments",
      "JVM_ARGS=-Djdk.util.zip.disableZip64ExtraFieldValidation=true",
      "MEM_MAX_RAM_PERCENTAGE=70.0",
      "MEM_XSS=512k"
    ],
    "Cmd": [
      "--contextroot",
      "chat",
      "--deploy",
      "/opt/payara/deployments/chat-webapp.war"
    ],
    "Image": "cs548/chat",
    "Volumes": null,
    "WorkingDir": "/opt/payara",
    "Entrypoint": [
      "/bin/sh",
      "entrypoint.sh"
    ],
    "OnBuild": null,
    "Labels": {}
  },
  "NetworkSettings": {
    "Bridge": "",
    "SandboxID": "8221d3d4fe833c67ccad567e92b77f5400a9bbc1ea32b790df5ce36e29a7fda4",
    "SandboxKey": "/var/run/docker/netns/8221d3d4fe83",
    "Ports": {
      "6900/tcp": null,
      "8080/tcp": [
        {
          "HostIp": "0.0.0.0",
          "HostPort": "8080"
        },
        {
          "HostIp": ":::",
          "HostPort": "8080"
        }
      ],
      "8181/tcp": [
        {
          "HostIp": "0.0.0.0",
          "HostPort": "8181"
        },
        {
          "HostIp": ":::",
          "HostPort": "8181"
        }
      ]
    }
  },
  "HairpinMode": false,
  "LinkLocalIPv6Address": "",
  "LinkLocalIPv6PrefixLen": 0,
  "SecondaryIPAddresses": null,
  "SecondaryIPv6Addresses": null,
  "EndpointID": "",
  "Gateway": "",
  "GlobalIPv6Address": "",
  "GlobalIPv6PrefixLen": 0,
  "IPAddress": "",
  "IPPrefixLen": 0,
  "IPv6Gateway": "",
  "MacAddress": ""
}
```

```

"Networks": {
  "cs548-network": {
    "IPAMConfig": null,
    "Links": null,
    "Aliases": [
      "91fc803039ae"
    ],
    "MacAddress": "02:42:ac:12:00:02",
    "NetworkID": "ce37ace22dc56f5973ald5fa910288a9496785caf984703a367bb34f39727d63",
    "EndpointID": "7bfald7f1b07f42e597d4e7d63ffb2d6aeb0f8700600dc75440a3bd185927ffd",
    "Gateway": "172.18.0.1",
    "IPAddress": "172.18.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "DriverOpts": null,
    "DNSNames": [
      "chat",
      "91fc803039ae"
    ]
  }
}
}
]
[ec2-user@ip-172-31-39-74 ~]$

```

4) Video demonstration of local browser window showing the “chatwebapp” application deploying and running in your instance.

**Google Drive Link:** [UI](#)

5) Video showing the log for the application container, from successful deployment through logging of background operations while interacting with the web application.

**Google Drive Link:** [Full Video](#)

**Full Demo of App Deployment where I restarted EC2 Instance which shows automatic restart of all services -** [Full Video](#)

**One Drive Link:** [Full Video](#)