

# TMPFS Mount Commands

1: Run a container with a tmpfs mount.

```
docker run -d --name <container_name> --tmpfs <target_path>
<image_name>
```

```
ubuntu@ip-172-31-16-129:~$ sudo su
root@ip-172-31-16-129:/home/ubuntu# docker run -d --name tmpfs-container --tmpfs /app nginx:latest
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
b0a0cf830b12: Pull complete
8ddb1e6cdf34: Pull complete
5252b206aac2: Pull complete
988b92d96970: Pull complete
7102627a7a6e: Pull complete
93295add984d: Pull complete
ebde0aa1d1aa: Pull complete
Digest: sha256:f1f025c6b59fd95ea9423beb3b2a068f0e806a590250c88db74fdc3085252450
Status: Downloaded newer image for nginx:latest
bf4070566d6d355b75b8b4d4b0292a38a5ad2e93e38a059e506d07ea38ed375c
root@ip-172-31-16-129:/home/ubuntu#
```

Check the container

```
docker ps
```

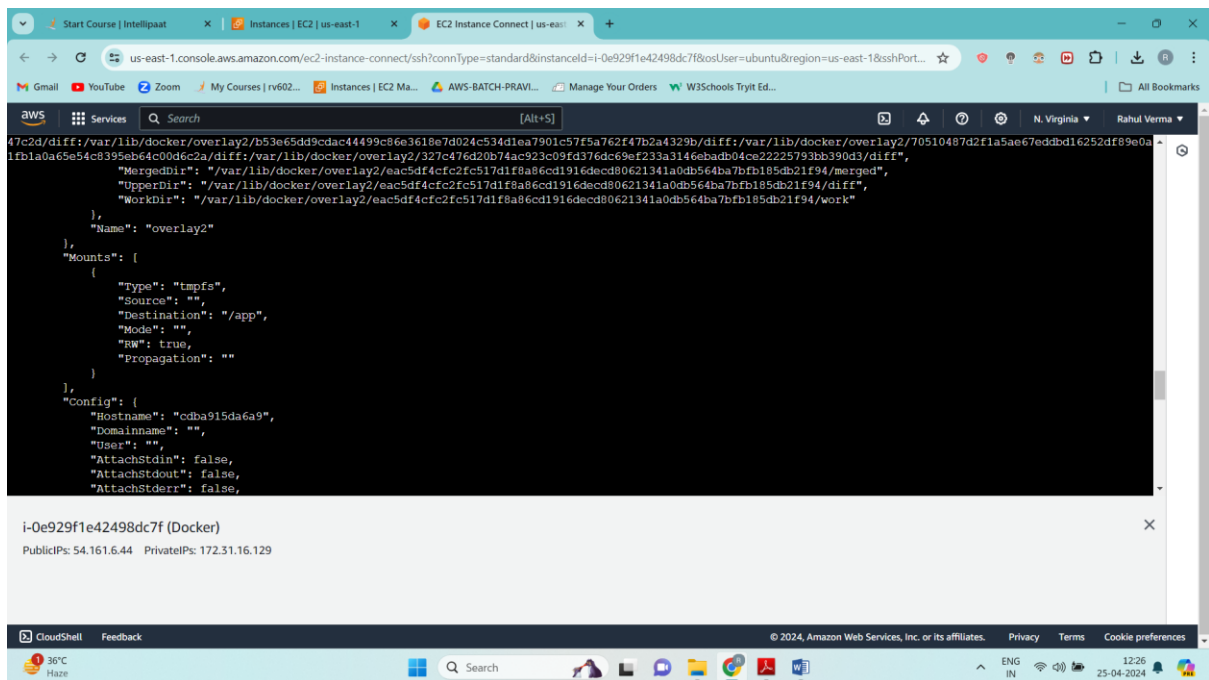
```
root@ip-172-31-16-129:/home/ubuntu# docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
bf4070566d6d   nginx:latest  "/docker-entrypoint..."  35 seconds ago  Up 33 seconds  80/tcp        tmpfs-container
root@ip-172-31-16-129:/home/ubuntu#
```

Now let's see how to create a tmpfs using mount flag

```
docker run -d -it --name <container-name> --mount type =
tmpfs, destination = <target-path><image-name>
```

```
root@ip-172-31-16-129:/home/ubuntu# docker run -d --name tmpfs-mount --mount type=tmpfs,destination=/app nginx:latest
cdba915da6a9b4e06f72e616af6412026d11799b9e3a59ca4a36a401352812e8
```

And we inspect this container we can see it's type is tmpfs



The screenshot shows the AWS CloudShell interface. The terminal displays the output of a Docker inspection command, showing the container's configuration. The output is as follows:

```
47c2d/diff:/var/lib/docker/overlay2/b53e65dd9cdac44499c86e3618e7d024c534d1ea7901c57f5a762f47b2a4329b/diff:/var/lib/docker/overlay2/70510487d2f1a5ae67edd8d16252df89e0a1fb1a0a65e54c8395eb64c00d6c2a/diff:/var/lib/docker/overlay2/327c476d20b74ac923c09fd376dc69ef233a3146ebadb04ce2225793bb390d3/diff",
  "MergedDir": "/var/lib/docker/overlay2/eac5df4cfc2fc517d1f8a86cd1916dec80621341a0db564ba7bfb185db21f94/merged",
  "UpperDir": "/var/lib/docker/overlay2/eac5df4cfc2fc517d1f8a86cd1916dec80621341a0db564ba7bfb185db21f94/diff",
  "WorkDir": "/var/lib/docker/overlay2/eac5df4cfc2fc517d1f8a86cd1916dec80621341a0db564ba7bfb185db21f94/work"
},
{
  "Name": "overlay2"
},
{
  "Mounts": [
    {
      "Type": "tmpfs",
      "Source": "",
      "Destination": "/app",
      "Mode": "",
      "RW": true,
      "Propagation": ""
    }
  ],
  "Config": {
    "Hostname": "cdba915da6a9",
    "Domainname": "",
    "User": "",
    "AttachStdin": false,
    "AttachStdout": false,
    "AttachStderr": false,

```

Below the terminal output, the container details are shown:

i-Oe929f1e42498dc7f (Docker)  
PublicIPs: 54.161.6.44 PrivateIPs: 172.31.16.129

The bottom of the screenshot shows the Windows taskbar with the date 25-04-2024 and time 12:26.