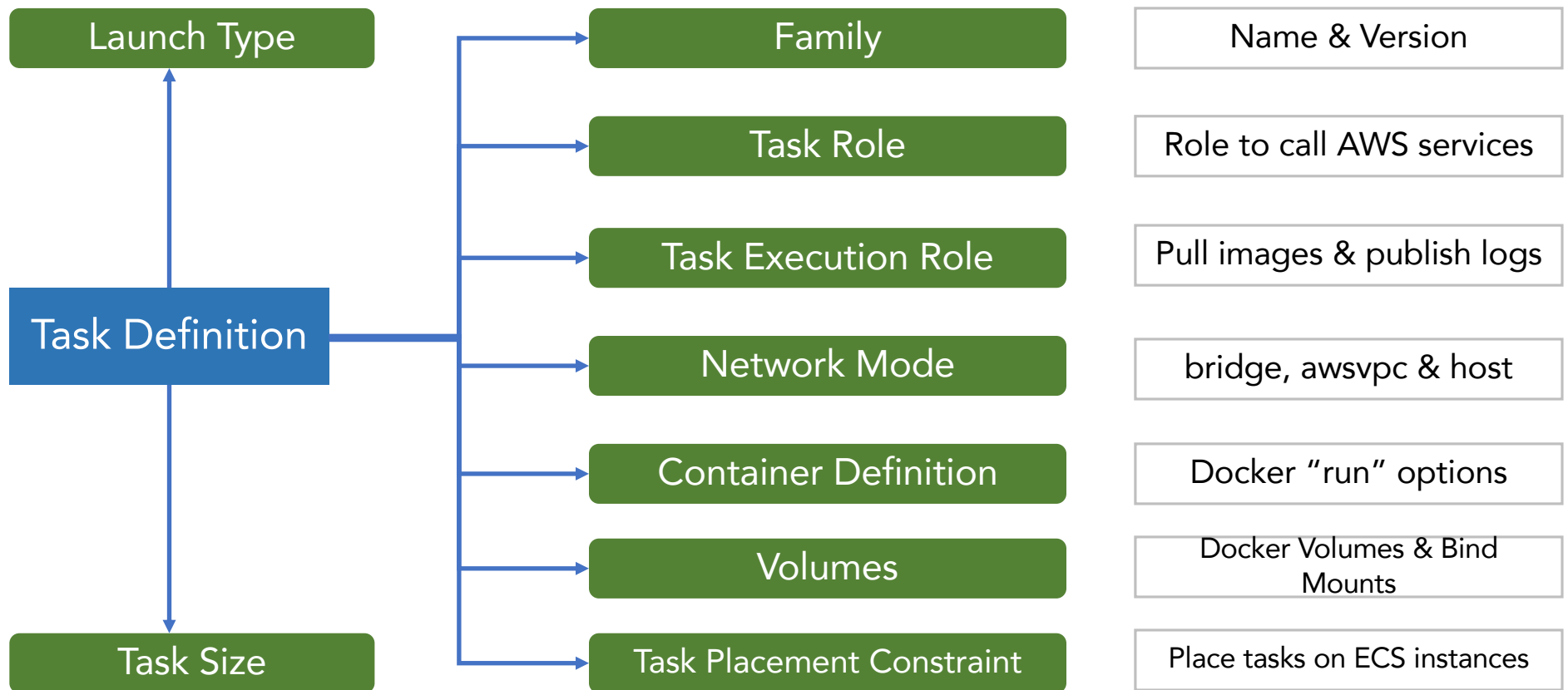


# Task Definition Components

# Task Definition Components



# Network Mode

EXPOSE 80

-p 8080:80

Bridge

Container Port

Host Port

Host

Container Port

Same as container

awsipc

Container Port

Dynamic port mapping

# Container Definition

```
docker run ...
```

```
--attach, -a
```

```
--detach, -d
```

```
--env, -e
```

```
--name
```

```
--net
```

```
--publish, -p
```

```
--volume, -v
```

```
--cpus
```

```
--dns
```

```
--entrypoint
```

```
--health-cmd
```

```
--health-interval
```

```
--health-retries
```

```
--hostname
```

```
--link
```

```
--log-driver
```

```
--log-opt
```

```
--memory
```

```
--memory-reservation
```

```
--workdir
```

```
--ulimit
```

```
--volumes-from
```

```
--ip
```

```
--dns-opt
```

```
--mount
```

```
AWS ECS (Cloud - DeepTech) $ docker run -d -e DBHOST="empdb" -e DBPORT="3306" -e DBUSER="root" -e DBPWD="abcd1234" -e DATABASE="awsecs" --name addemp --net awsecs -p 80:80 addemp:latest
```

# Volumes (docker volume)

Dockerfile

```
FROM centos:latest
RUN yum install -y httpd
VOLUME /var/www/html
COPY ./index.html /var/www/html/index.html
EXPOSE 80
CMD ["/usr/sbin/httpd", "-D", "FOREGROUND"]
```

```
"Mounts": [
  {
    "Type": "volume",
    "Name": "d5608c338b0d9e2bdf0c6fca3c55878a537198641d8bf2f8aafea3fc98d8fa38",
    "Source": "/var/lib/docker/volumes/d5608c338b0d9e2bdf0c6fca3c55878a537198641d8bf2f8aafea3fc98d8fa38/_data",
    "Destination": "/var/www/html",
    "Driver": "local",
    "Mode": "",
    "RW": true,
    "Propagation": ""
  }
],
"Config": {
  "Hostname": "a4954dc4b992",
  "Domainname": "",
  "User": "",
```

docker container inspect

# Volumes (docker volume)

```
[root@ip-172-31-93-207 volumes]#  
[root@ip-172-31-93-207 volumes]#  
[root@ip-172-31-93-207 volumes]# pwd  
/var/lib/docker/volumes  
[root@ip-172-31-93-207 volumes]#  
[root@ip-172-31-93-207 volumes]#  
[root@ip-172-31-93-207 volumes]# ls -l  
total 32  
drwxr-xr-x 3 root root 4096 Nov 25 16:10 d5608c338b0d9e2bdf0c6fca3c55878a537198641d8bf2f8aafea3fc98d8fa38  
drwxr-xr-x 3 root root 4096 Nov 25 16:00 eed90680d68078f9af6877d924108da0163d12096fb8684564c0e67407285782  
-rw----- 1 root root 32768 Nov 25 16:10 metadata.db  
[root@ip-172-31-93-207 volumes]#  
[root@ip-172-31-93-207 volumes]#  
[root@ip-172-31-93-207 volumes]#
```

# Volumes (bind mount)

```
[ec2-user@ip-172-31-93-207 container-volume]$  
[ec2-user@ip-172-31-93-207 container-volume]$ docker container run -d --name web -p 80:80 -v /home/ec2-user/container-volume:/var/www/html apache:v2
```

docker container inspect

```
    "Mounts": [  
      {  
        "Type": "volume",  
        "Name": "d5608c338b0d9e2bdf0c6fca3c55878a537198641d8bf2f8aafea3fc98d8fa38",  
        "Source": "/var/lib/docker/volumes/d5608c338b0d9e2bdf0c6fca3c55878a537198641d8bf2f8aafea3fc98d8fa38/_data",  
        "Destination": "/var/www/html",    /home/ec2-user/container-volume/  
        "Driver": "local",  
        "Mode": "",  
        "RW": true,  
        "Propagation": ""  
      }  
    ],  
    "Config": {  
      "Hostname": "a4954dc4b992",  
      "Domainname": "",  
      "User": ""  
    }  
  }  
}
```