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PS C:\Users\Rakshan\OneDrive\Desktop\CCVT\Sem 6\Container Orchestration and automation\My_Docker_Graveyard\Exp-6> docker network create --driver bridge --subnet 192.168.100.0/24 --ip-range 192.168.100.0/25 net-bridge
c886367c32f2ae08d3e90fd833670fa01fbe627f7673bdab3f8de869eff4a2a2
PS C:\Users\Rakshan\OneDrive\Desktop\CCVT\Sem 6\Container Orchestration and automation\My_Docker_Graveyard\Exp-6> docker run -itd --net=net-bridge --name=cont_database redis
Unable to find image 'redis:latest' locally
latest: Pulling from library/redis
8a628cdd7ccc: Already exists
af4f792eda67: Pull complete
34bf06a274a4: Pull complete
f55973062546: Pull complete
a5ffdb818598: Pull complete
895fd8cffaec: Pull complete
4f4fb700ef54: Pull complete
a7e19893f1e8: Pull complete
Digest: sha256:8bc666424ef252009ed34b0432564cabbd4094cd2ce7829306cb1f5ee69170be
Status: Downloaded newer image for redis:latest
1c5f7fd3cb3be8cfs8be754517bc88ba3823388f8f6b03fabc8f5b892403bd2b
PS C:\Users\Rakshan\OneDrive\Desktop\CCVT\Sem 6\Container Orchestration and automation\My_Docker_Graveyard\Exp-6> docker run -dit --name server-A --network net-bridge busybox
Unable to find image 'busybox:latest' locally
latest: Pulling from library/busybox
97e70d161e81: Pull complete
Digest: sha256:37f7b378a29ceb4c551b1b5582e27747b855bbfaa73fa1914fe0df028dc581f
Status: Downloaded newer image for busybox:latest
dbcf2369e24432b6d0b7752fcab600e15d3fc2d68509f6eccacd33547b755b1f
PS C:\Users\Rakshan\OneDrive\Desktop\CCVT\Sem 6\Container Orchestration and automation\My_Docker_Graveyard\Exp-6> docker network inspect net-bridge
[
  {
    "Name": "net-bridge",
    "Id": "c886367c32f2ae08d3e90fd833670fa01fbe627f7673bdab3f8de869eff4a2a2",
    "Created": "2025-04-27T15:40:34.654512477Z",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "192.168.100.0/24",
          "IPRange": "192.168.100.0/25"
        }
      ]
    }
  }
]

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PS C:\Users\Rakshan\OneDrive\Desktop\CCVT\Sem 6\Container Orchestration and automation\My_Docker_Graveyard\Exp-6> docker inspect --format='{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' cont_database
192.168.100.2
PS C:\Users\Rakshan\OneDrive\Desktop\CCVT\Sem 6\Container Orchestration and automation\My_Docker_Graveyard\Exp-6> docker exec -it server-A sh
/ # ping 192.168.100.2
PING 192.168.100.2 (192.168.100.2): 56 data bytes
64 bytes from 192.168.100.2: seq=0 ttl=64 time=0.576 ms
64 bytes from 192.168.100.2: seq=1 ttl=64 time=0.085 ms
64 bytes from 192.168.100.2: seq=2 ttl=64 time=0.113 ms
64 bytes from 192.168.100.2: seq=3 ttl=64 time=0.081 ms
64 bytes from 192.168.100.2: seq=4 ttl=64 time=0.074 ms
64 bytes from 192.168.100.2: seq=5 ttl=64 time=0.103 ms
64 bytes from 192.168.100.2: seq=6 ttl=64 time=0.103 ms
64 bytes from 192.168.100.2: seq=7 ttl=64 time=0.121 ms
64 bytes from 192.168.100.2: seq=8 ttl=64 time=0.181 ms
64 bytes from 192.168.100.2: seq=9 ttl=64 time=0.120 ms
^C
--- 192.168.100.2 ping statistics ---
10 packets transmitted, 10 packets received, 0% packet loss
round-trip min/avg/max = 0.074/0.155/0.576 ms
/ # ping cont_database
PING cont_database (192.168.100.2): 56 data bytes
64 bytes from 192.168.100.2: seq=0 ttl=64 time=0.099 ms
64 bytes from 192.168.100.2: seq=1 ttl=64 time=0.079 ms
64 bytes from 192.168.100.2: seq=2 ttl=64 time=0.105 ms
64 bytes from 192.168.100.2: seq=3 ttl=64 time=0.102 ms
64 bytes from 192.168.100.2: seq=4 ttl=64 time=0.102 ms
64 bytes from 192.168.100.2: seq=5 ttl=64 time=0.100 ms
64 bytes from 192.168.100.2: seq=6 ttl=64 time=0.103 ms
^C
--- cont_database ping statistics ---
7 packets transmitted, 7 packets received, 0% packet loss
round-trip min/avg/max = 0.079/0.098/0.105 ms
/ # █

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