

Changing the default Docker bridge IP address (the docker0 interface) is a common task, especially if the default range (172.17.0.0/16) conflicts with your existing network infrastructure.

To change this, you'll need to modify the Docker daemon configuration file.

1. Edit the Daemon Configuration

The configuration is typically stored in a file called daemon.json. If it doesn't exist, you will need to create it.

- **Location:** /etc/docker/daemon.json (Linux)
- **Action:** Add the bip (Bridge IP) key with your desired subnet in CIDR notation.

JSON

```
{  
  "bip": "192.168.100.1/24"  
}
```

Note: The IP you specify here becomes the gateway IP for the bridge. In the example above, the bridge will use the 192.168.100.0/24 network.

2. Apply the Changes

For the changes to take effect, you need to restart the Docker service.

1. Reload and Restart:

```
Bash  
sudo systemctl daemon-reload  
sudo systemctl restart docker
```

2. Verify the Change:

Check the docker0 interface to ensure it reflects the new IP:

```
Bash  
ip addr show docker0
```

Important Considerations

- **Container Impact:** This change will disrupt connectivity for any running containers. They will need to be restarted to pick up IPs from the new range.
- **Custom Networks:** This only changes the **default** bridge. If you have created user-defined bridge networks (using docker network create), those have their own separate configurations and won't be affected by the bip setting.
- **Address Conflicts:** Ensure the new range you choose does not overlap with your physical LAN or any VPNs you use, otherwise, you'll run into routing nightmares.

Would you like me to help you write a script to automate this change across multiple nodes, or do you need help configuring a **user-defined** bridge instead?