



DevOps Shack

100 Docker Errors & Solution

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1. **Error: Cannot connect to the Docker daemon**
 - **Solution:** Ensure Docker daemon is running. Use `sudo systemctl start docker` OR `docker-machine start` if using Docker Machine.
2. **Error: Permission denied while trying to connect to the Docker daemon socket**
 - **Solution:** Add your user to the `docker` group: `sudo usermod -aG docker $USER` and then log out and back in.
3. **Error: Container is unhealthy**
 - **Solution:** Check the health check command in your Dockerfile and the logs for the specific issue.
4. **Error: Docker: Error response from daemon: conflict**
 - **Solution:** Remove the existing container using `docker rm <container_id>` and try again.
5. **Error: No space left on device**
 - **Solution:** Clean up unused images, containers, and volumes using `docker system prune`.
6. **Error: Network timed out while trying to connect to Docker Hub**
 - **Solution:** Check your internet connection and proxy settings. Retry the operation.
7. **Error: Cannot locate package in Dockerfile**
 - **Solution:** Update package lists before installing: `RUN apt-get update` before `apt-get install`.
8. **Error: EACCES: permission denied**
 - **Solution:** Ensure the necessary permissions for the volume mount. Use `sudo` if required.
9. **Error: No such file or directory**

- **Solution:** Verify the file path and ensure it exists in the context of the Docker build.
- 10. **Error: Address already in use**
 - **Solution:** Ensure the port is not in use by another application. Stop the conflicting service or use a different port.
- 11. **Error: exec format error**
 - **Solution:** Ensure you're using the correct architecture for your Docker image.
- 12. **Error: Mounts denied: Permission denied**
 - **Solution:** Update Docker to the latest version and ensure correct sharing of directories in Docker Desktop.
- 13. **Error: OCI runtime create failed**
 - **Solution:** Check for syntax errors in your Dockerfile and ensure all dependencies are installed.
- 14. **Error: Failed to create containerd task**
 - **Solution:** Restart the Docker daemon using `sudo systemctl restart docker`.
- 15. **Error: Cannot start service: Ports are not available**
 - **Solution:** Ensure the specified port is available and not used by other services.
- 16. **Error: Error pulling image**
 - **Solution:** Ensure the image name is correct and that you have access to it. Retry the pull command.
- 17. **Error: Cannot kill container**
 - **Solution:** Use `docker rm -f <container_id>` to force remove the container.
- 18. **Error: Docker build fails with COPY failed: no such file or directory**
 - **Solution:** Ensure the specified files and paths in the Dockerfile exist in the build context.
- 19. **Error: No build stage in current context**
 - **Solution:** Use a multi-stage build if necessary or verify the Dockerfile syntax.
- 20. **Error: Error processing tar file**
 - **Solution:** Verify the integrity of the tar file and ensure it is not corrupted.
- 21. **Error: Dockerfile command returns non-zero code**
 - **Solution:** Check the command for errors and ensure all necessary dependencies are installed.
- 22. **Error: Layer already being pulled by another client**
 - **Solution:** Retry the operation after a few moments.
- 23. **Error: Device or resource busy**
 - **Solution:** Stop any processes that may be using the resource and try again.

24. **Error: Cannot allocate memory**
 - **Solution:** Increase the available memory or limit the memory usage for Docker containers.
25. **Error: Network bridge not found**
 - **Solution:** Create the network bridge manually using `docker network create`.
26. **Error: Disk quota exceeded**
 - **Solution:** Increase the disk space available to Docker or remove unnecessary data.
27. **Error: Docker login fails**
 - **Solution:** Verify your Docker Hub credentials and try logging in again.
28. **Error: Image operating system "linux" cannot be used on this platform**
 - **Solution:** Use an appropriate image for your platform (e.g., Windows or MacOS).
29. **Error: Bind mount fails**
 - **Solution:** Ensure the host directory exists and has the correct permissions.
30. **Error: Failed to set up namespace separation of processes**
 - **Solution:** Ensure the necessary Linux kernel features are enabled.
31. **Error: Failed to remove container**
 - **Solution:** Use `docker rm -f <container_id>` to force remove the container.
32. **Error: Cannot start container: Unknown runtime specified**
 - **Solution:** Ensure the specified runtime is installed and configured correctly.
33. **Error: Error response from daemon: Bad response from Docker engine**
 - **Solution:** Restart the Docker daemon and check for updates.
34. **Error: No such image**
 - **Solution:** Verify the image name and tag, then try pulling the image again.
35. **Error: Docker-compose up fails with "The system cannot find the file specified"**
 - **Solution:** Verify the file paths in the docker-compose.yml file.
36. **Error: Cannot remove volume**
 - **Solution:** Ensure no containers are using the volume and then remove it using `docker volume rm <volume_name>`.
37. **Error: Failed to register layer: open /var/lib/docker/tmp/get/xxx: no such file or directory**
 - **Solution:** Clean up the Docker temporary files and retry the operation.
38. **Error: Error mounting volume**
 - **Solution:** Check the volume mount permissions and paths.
39. **Error: Docker API version mismatch**
 - **Solution:** Update Docker to the latest version to ensure compatibility.

40. **Error: Container exits immediately after starting**
 - **Solution:** Check the container logs to diagnose the issue and ensure the entrypoint command is correct.
41. **Error: Cannot create container for service: invalid mount config for type "bind"**
 - **Solution:** Verify the bind mount configuration in your Docker Compose file.
42. **Error: Error when creating mount source path '/host_mnt/...'**
 - **Solution:** Ensure the host path exists and has the correct permissions.
43. **Error: Unknown blob**
 - **Solution:** Retry the operation and ensure the image exists on Docker Hub.
44. **Error: Cannot kill container: container not found**
 - **Solution:** Verify the container ID and ensure it is running.
45. **Error: Docker network connect: conflict**
 - **Solution:** Remove the conflicting network or connect the container to a different network.
46. **Error: Docker cp cannot copy directory**
 - **Solution:** Use `docker cp -a` to recursively copy directories.
47. **Error: Unauthorized: authentication required**
 - **Solution:** Log in to Docker Hub using `docker login`.
48. **Error: Cannot start container: operation not permitted**
 - **Solution:** Check the security settings and permissions for Docker.
49. **Error: Failed to attach to network**
 - **Solution:** Restart the Docker daemon and check the network settings.
50. **Error: No build context specified**
 - **Solution:** Ensure the build context is specified correctly in your Docker command.
51. **Error: Docker push fails with "no basic auth credentials"**
 - **Solution:** Log in to Docker Hub before pushing the image.
52. **Error: Cannot connect to Docker daemon at unix:///var/run/docker.sock**
 - **Solution:** Ensure the Docker daemon is running and check the permissions on the Docker socket.
53. **Error: Container has runAsNonRoot and image has non-numeric user (username)**
 - **Solution:** Ensure the Dockerfile specifies a numeric user ID.
54. **Error: Conflict: unable to delete (must be forced)**
 - **Solution:** Use `docker image rm -f <image_id>` to forcefully remove the image.
55. **Error: Connection reset by peer**
 - **Solution:** Check network connectivity and retry the operation.
56. **Error: Error saving credentials**
 - **Solution:** Ensure the Docker credential store is configured correctly.

57. Error: Missing required flag 'service' when using '-t' with 'docker-compose up'

- **Solution:** Ensure the service name is specified correctly in the docker-compose command.

58. Error: Cannot unpause container

- **Solution:** Ensure the container is in a paused state and try unpausing it again.

59. Error: Error executing in Docker Container: 137

- **Solution:** Increase the container's memory limit and ensure it has enough resources.

60. Error: Mount path must be absolute

- **Solution:** Ensure the mount path is an absolute path in your Docker Compose file.

61. Error: Docker login fails with "error storing credentials"

- **Solution:** Check the Docker credential helper configuration and ensure it is working correctly.

62. Error: Cannot remove image: conflict

- **Solution:** Ensure no containers are using the image and then remove it using `docker rmi <image_id>`.

63. Error: No such container: container_id

- **Solution:** Verify the container ID and ensure it exists.

64. Error: Couldn't find env file

- **Solution:** Ensure the `.env` file exists in the specified path and is correctly formatted.

65. Error: Could not read CA certificate

- **Solution:** Verify the CA certificate path and ensure the file exists.

66. **Error: Invalid

reference format** - **Solution:** Ensure the image name and tag are correctly formatted.

67. Error: Cannot stop container: container not found

- **Solution:** Verify the container ID and ensure it is running.

68. Error: Cannot start service: Mounts denied

- **Solution:** Ensure the volume mounts are correctly configured and have the necessary permissions.

69. Error: Network not found

- **Solution:** Create the network using `docker network create` and try again.

70. Error: Docker pull fails with "toomanyrequests"

- **Solution:** Wait for a few moments and retry the operation. Consider using a rate limit-free account.

71. Error: Error response from daemon: Unknown runtime specified

- **Solution:** Ensure the specified runtime is installed and configured correctly.
- 72. **Error: Docker-compose up fails with "Cannot start service: Mounts denied"**
 - **Solution:** Verify the volume mount paths and permissions in the Docker Compose file.
- 73. **Error: Error creating overlay network**
 - **Solution:** Restart the Docker daemon and try creating the network again.
- 74. **Error: Cannot start container: invalid argument**
 - **Solution:** Check the container start command for errors and ensure all necessary arguments are provided.
- 75. **Error: Dockerfile build fails with "no build stage in current context"**
 - **Solution:** Verify the Dockerfile syntax and ensure a valid build stage is specified.
- 76. **Error: Docker push fails with "denied: requested access to the resource is denied"**
 - **Solution:** Ensure you have the necessary permissions to push the image and that you are logged in.
- 77. **Error: Cannot kill container: unknown error after kill**
 - **Solution:** Use `docker rm -f <container_id>` to forcefully remove the container.
- 78. **Error: Failed to create endpoint on network**
 - **Solution:** Restart the Docker daemon and check the network settings.
- 79. **Error: Docker-compose up fails with "ERROR: Pool overlaps with other one on this address space"**
 - **Solution:** Use a different subnet for the Docker network to avoid overlapping.
- 80. **Error: Docker build fails with "invalid reference format"**
 - **Solution:** Ensure the image name and tag are correctly formatted in the Dockerfile.
- 81. **Error: Docker login fails with "unauthorized: authentication required"**
 - **Solution:** Verify your Docker Hub credentials and ensure you are using the correct username and password.
- 82. **Error: Docker-compose up fails with "Error processing tar file(exit status 1)"**
 - **Solution:** Verify the integrity of the tar file and ensure it is not corrupted.
- 83. **Error: Cannot remove volume: volume is in use**
 - **Solution:** Ensure no containers are using the volume and then remove it using `docker volume rm <volume_name>`.
- 84. **Error: Docker push fails with "no basic auth credentials"**

- **Solution:** Log in to Docker Hub using `docker login` before pushing the image.
- 85. **Error: Docker run fails with "OCI runtime create failed"**
 - **Solution:** Check the container start command for errors and ensure all necessary arguments are provided.
- 86. **Error: Docker build fails with "Error response from daemon: invalid mount config"**
 - **Solution:** Verify the mount configuration in your Dockerfile and ensure it is correctly formatted.
- 87. **Error: Docker-compose up fails with "ERROR: for db Cannot start service db"**
 - **Solution:** Check the logs for the specific service to diagnose the issue.
- 88. **Error: Docker network connect: network not found**
 - **Solution:** Verify the network name and ensure it exists.
- 89. **Error: Docker run fails with "invalid container name"**
 - **Solution:** Ensure the container name is correctly formatted and does not contain invalid characters.
- 90. **Error: Docker build fails with "COPY failed: no source files were specified"**
 - **Solution:** Verify the file paths in the Dockerfile and ensure the source files exist.
- 91. **Error: Docker-compose up fails with "ERROR: for app Cannot start service app"**
 - **Solution:** Check the logs for the specific service to diagnose the issue.
- 92. **Error: Docker pull fails with "unauthorized: incorrect username or password"**
 - **Solution:** Verify your Docker Hub credentials and try logging in again.
- 93. **Error: Docker run fails with "Error response from daemon: OCI runtime create failed"**
 - **Solution:** Check the container start command for errors and ensure all necessary arguments are provided.
- 94. **Error: Docker build fails with "Step xx/yy : COPY failed: stat"**
 - **Solution:** Verify the file paths in the Dockerfile and ensure the source files exist.
- 95. **Error: Docker-compose up fails with "Error response from daemon: conflict"**
 - **Solution:** Remove the existing container using `docker rm <container_id>` and try again.
- 96. **Error: Docker push fails with "denied: requested access to the resource is denied"**
 - **Solution:** Ensure you have the necessary permissions to push the image and that you are logged in.
- 97. **Error: Docker build fails with "no build stage in current context"**

- **Solution:** Verify the Dockerfile syntax and ensure a valid build stage is specified.
98. **Error: Docker-compose up fails with “network not found”**
- **Solution:** Create the network using `docker network create` and try again.
99. **Error: Docker run fails with “Error response from daemon: invalid reference format”**
- **Solution:** Ensure the image name and tag are correctly formatted.
100. **Error: Docker login fails with “error storing credentials” - Solution:** Check the Docker credential helper configuration and ensure it is working correctly.