Experiment – 8

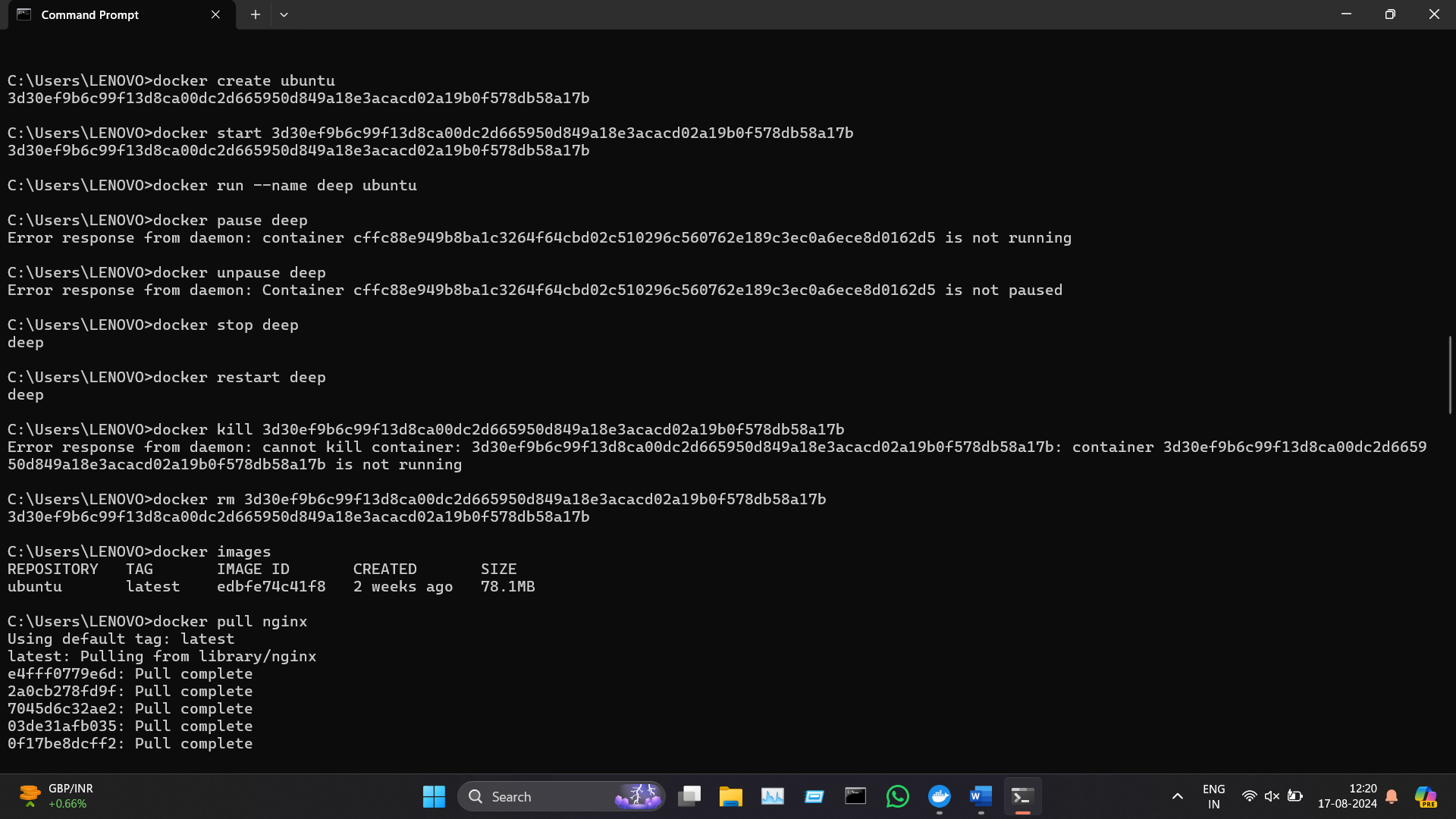
**Aim:** To manage images and interact with container.

**Theory:**

**Basic Docker Commands:**

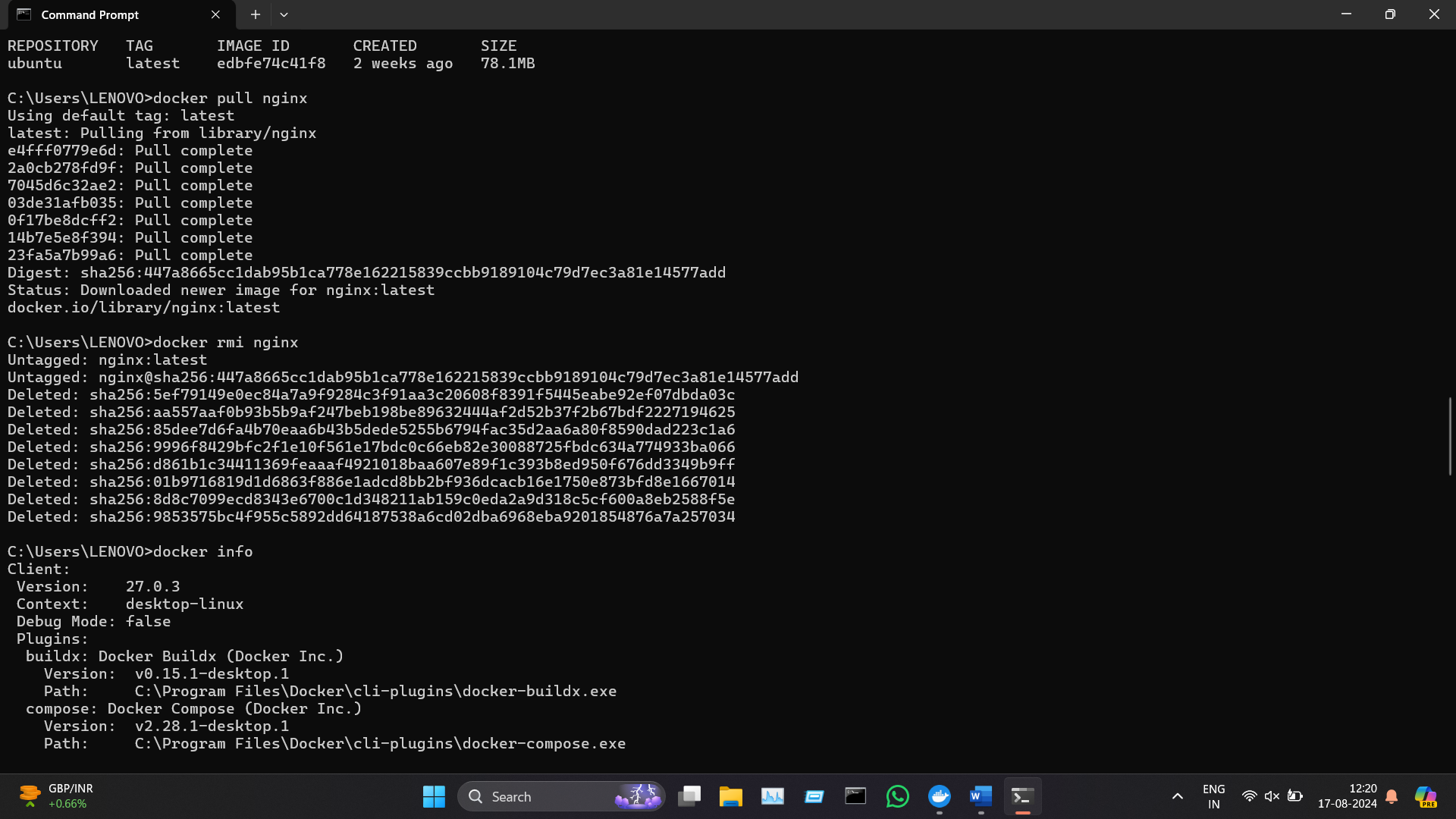
1. **List Images**:

Lists all Docker images on your system.



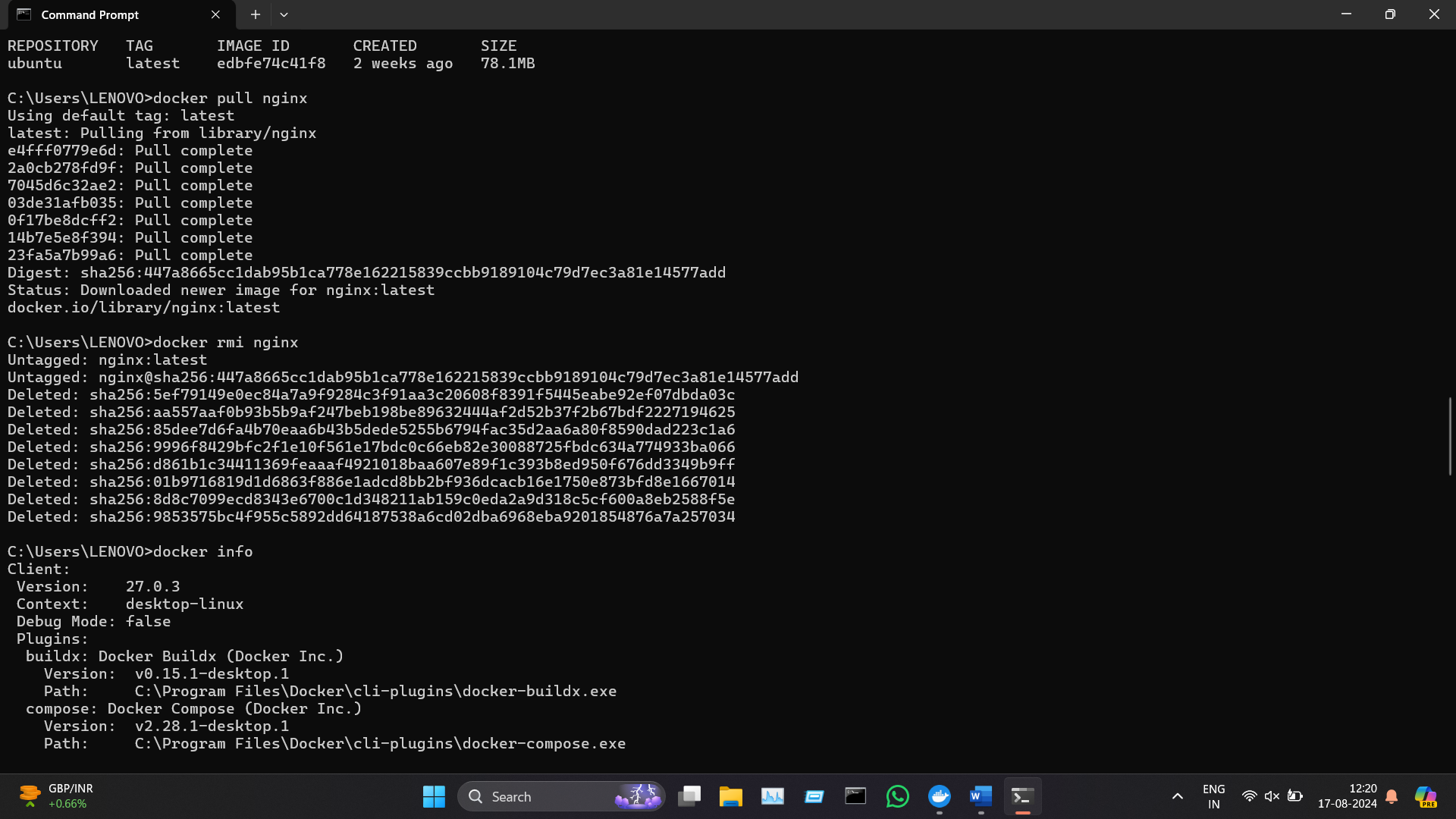
1. **Pull Image**:

Downloads an image from a Docker registry.



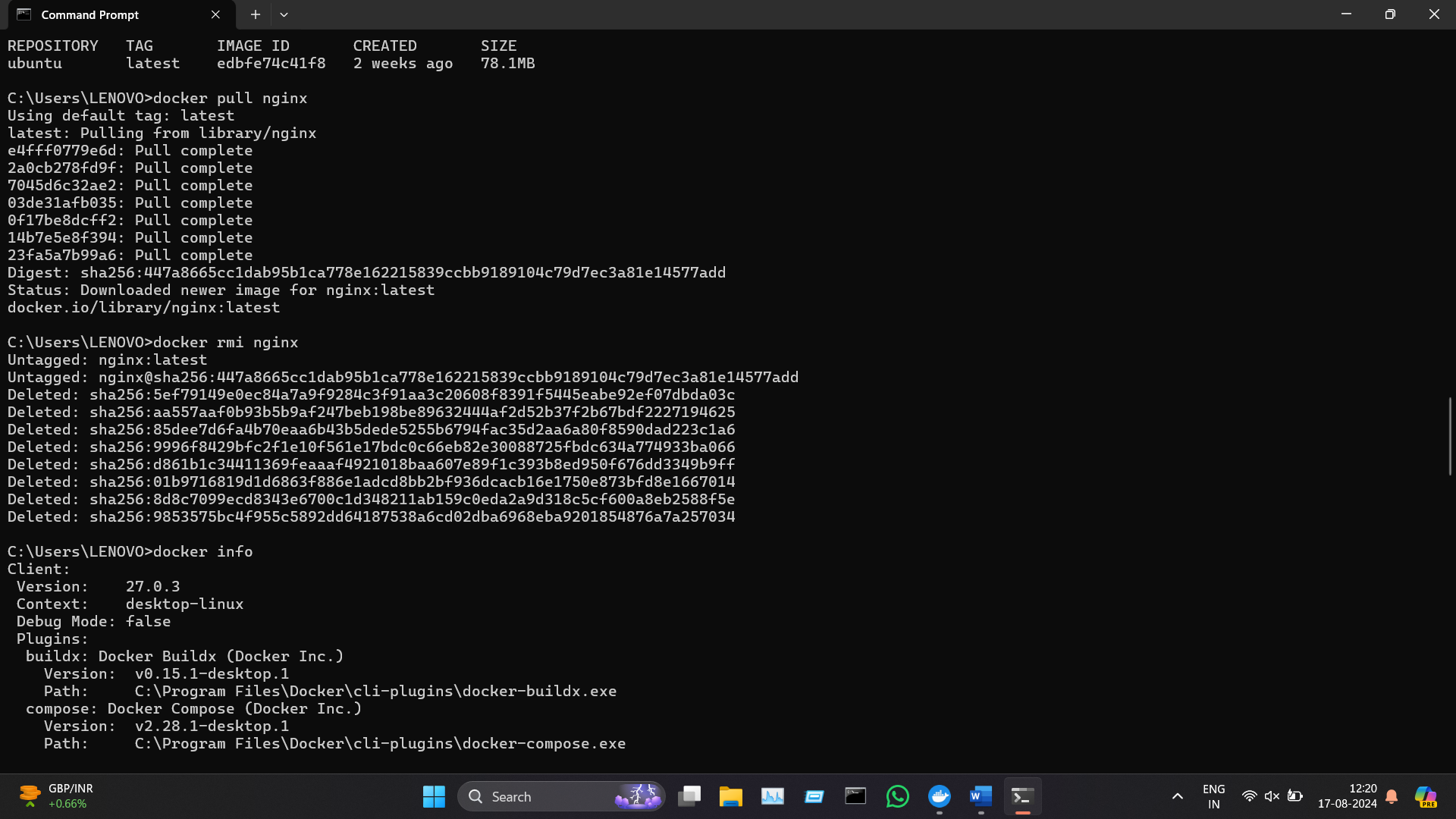
1. **Remove Image**:

Deletes a Docker image.



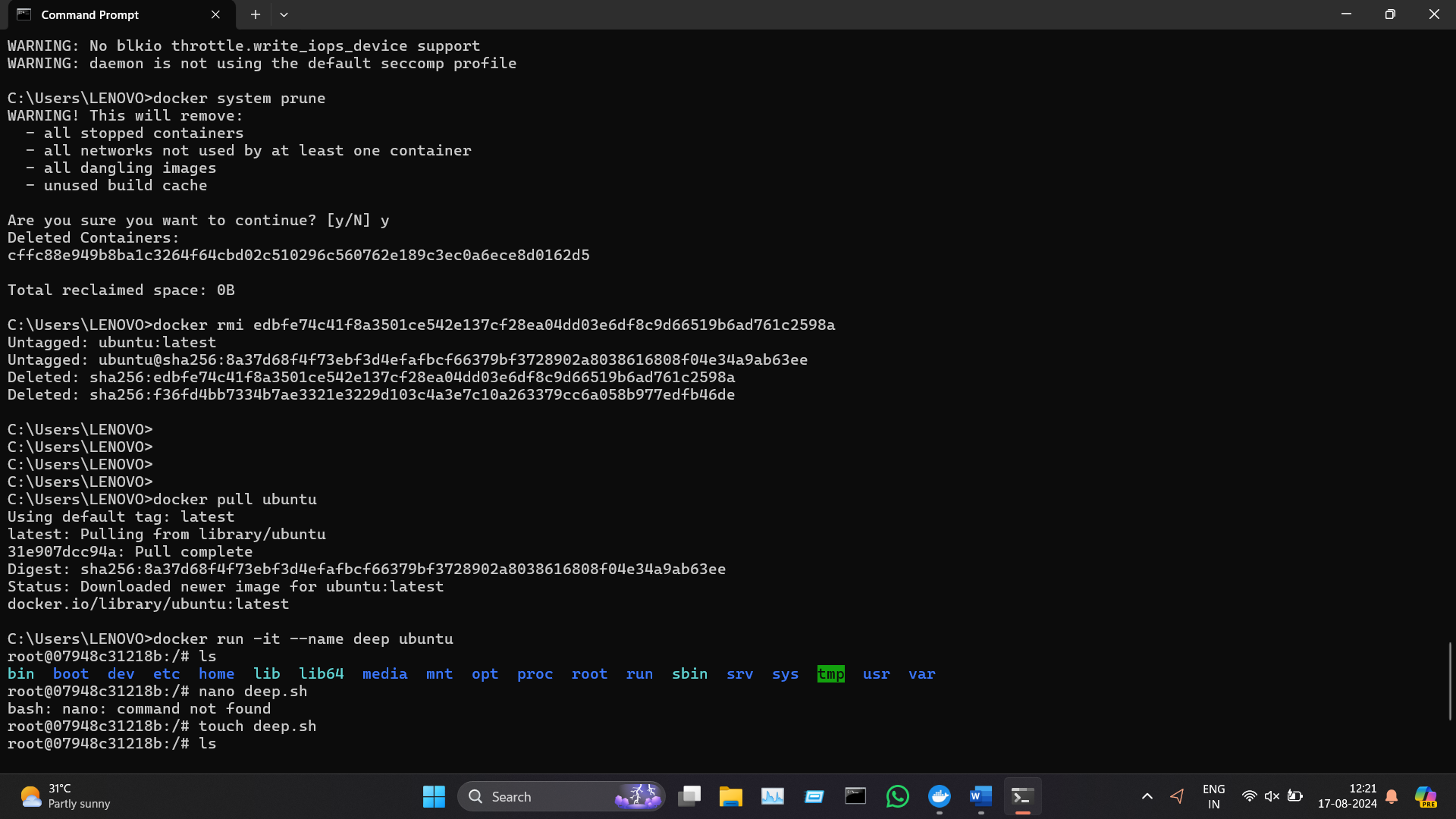
1. **Show System Information**:

Displays system-wide information about Docker.



1. **Prune Unused Resources**:

Cleans up unused containers, networks, images, and volumes.



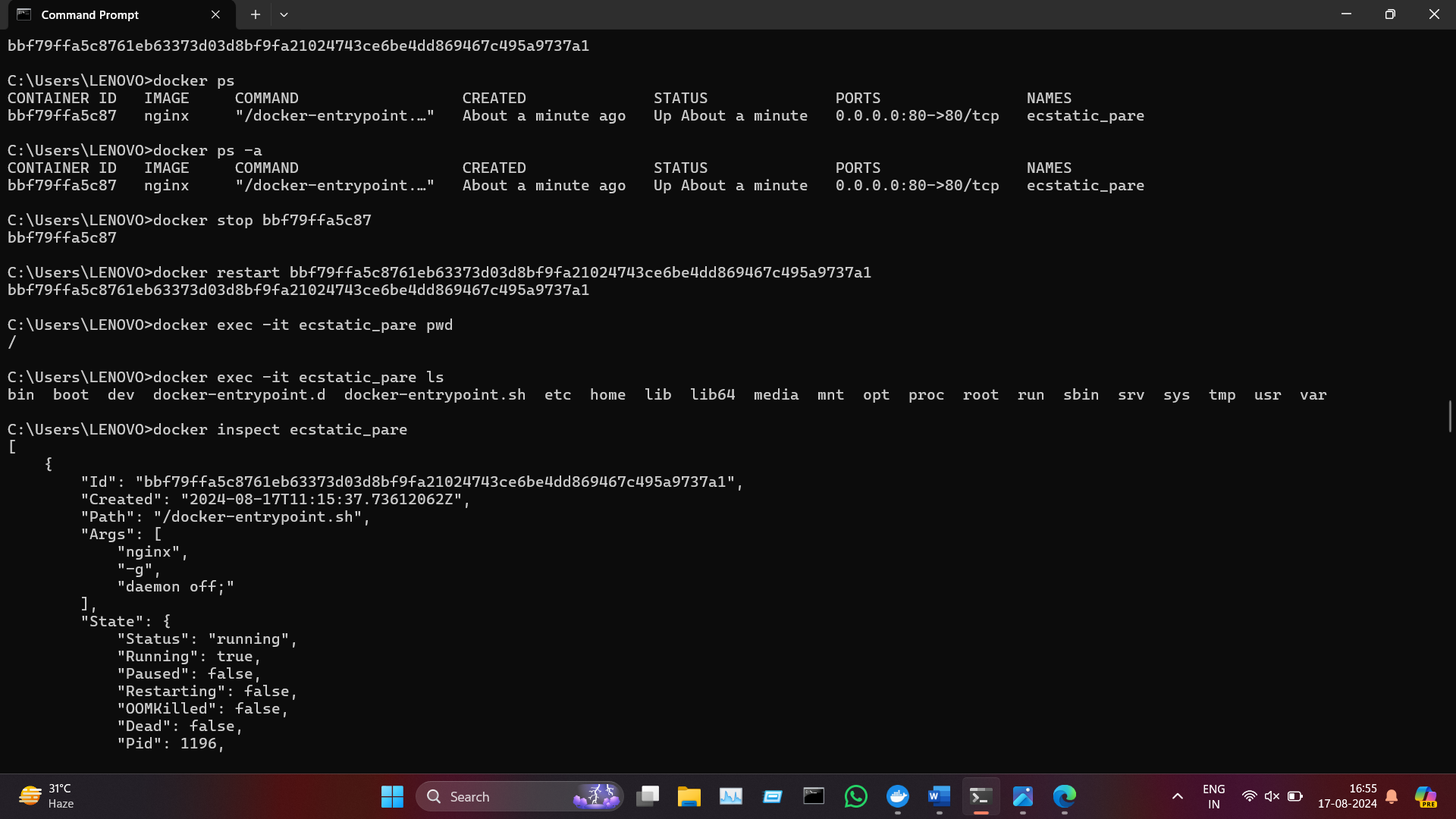
**Container Management and Interaction:**

Certainly! Here are some essential Docker commands for managing and interacting with containers:

### Management Commands

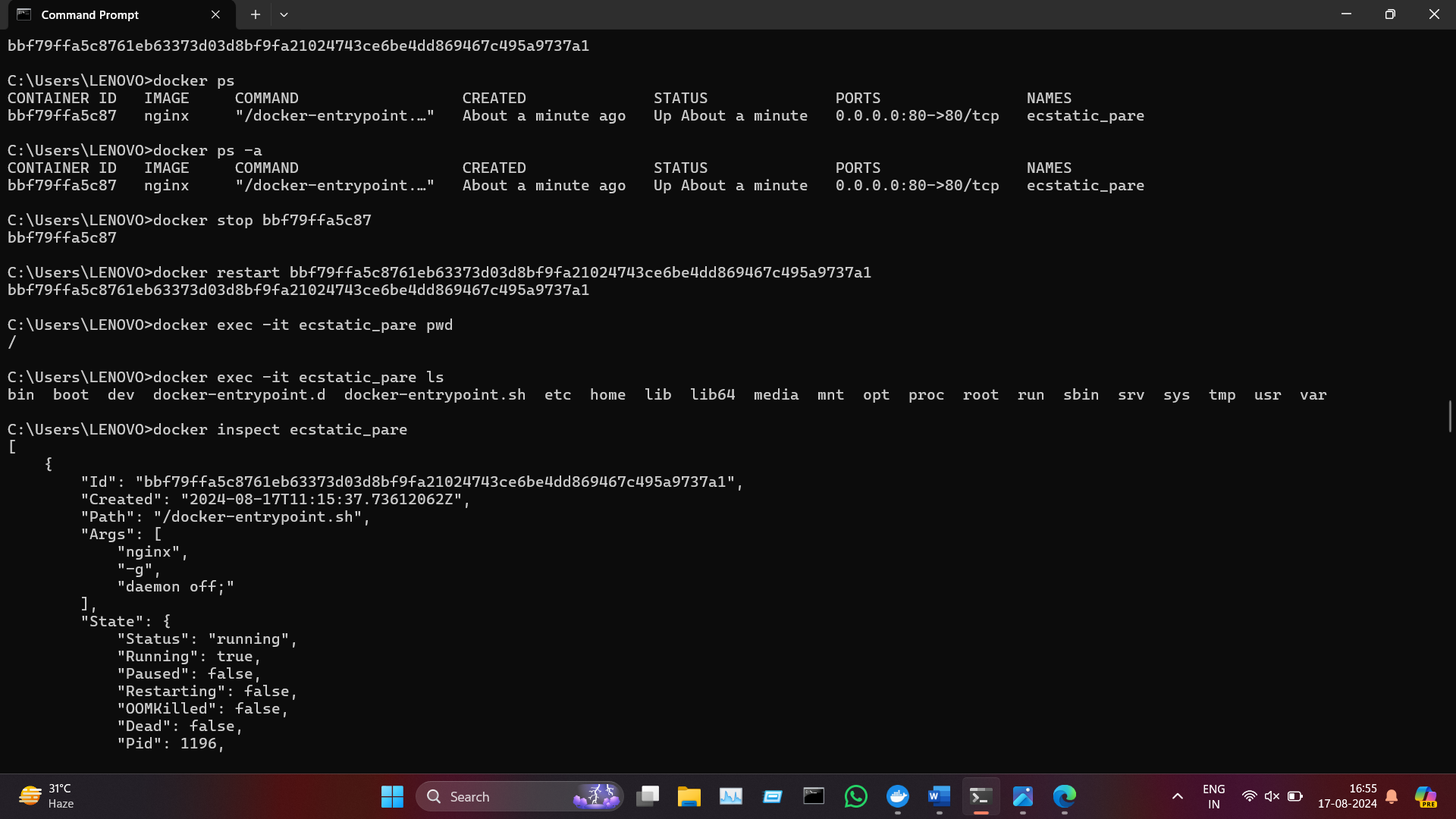
1. **List Running Containers**:

Lists all currently running containers.



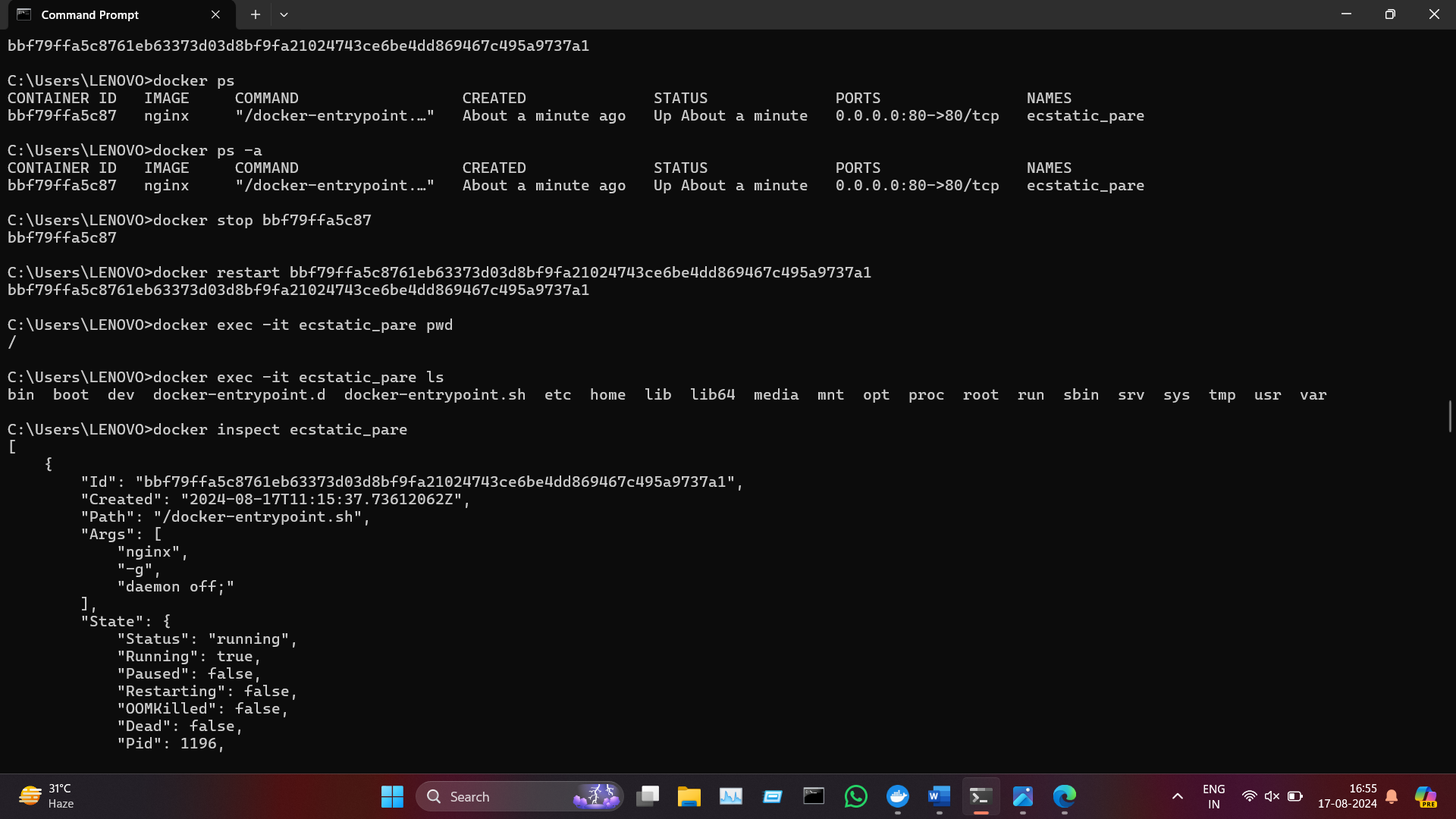
1. **List All Containers**:

Lists all containers, including stopped ones.



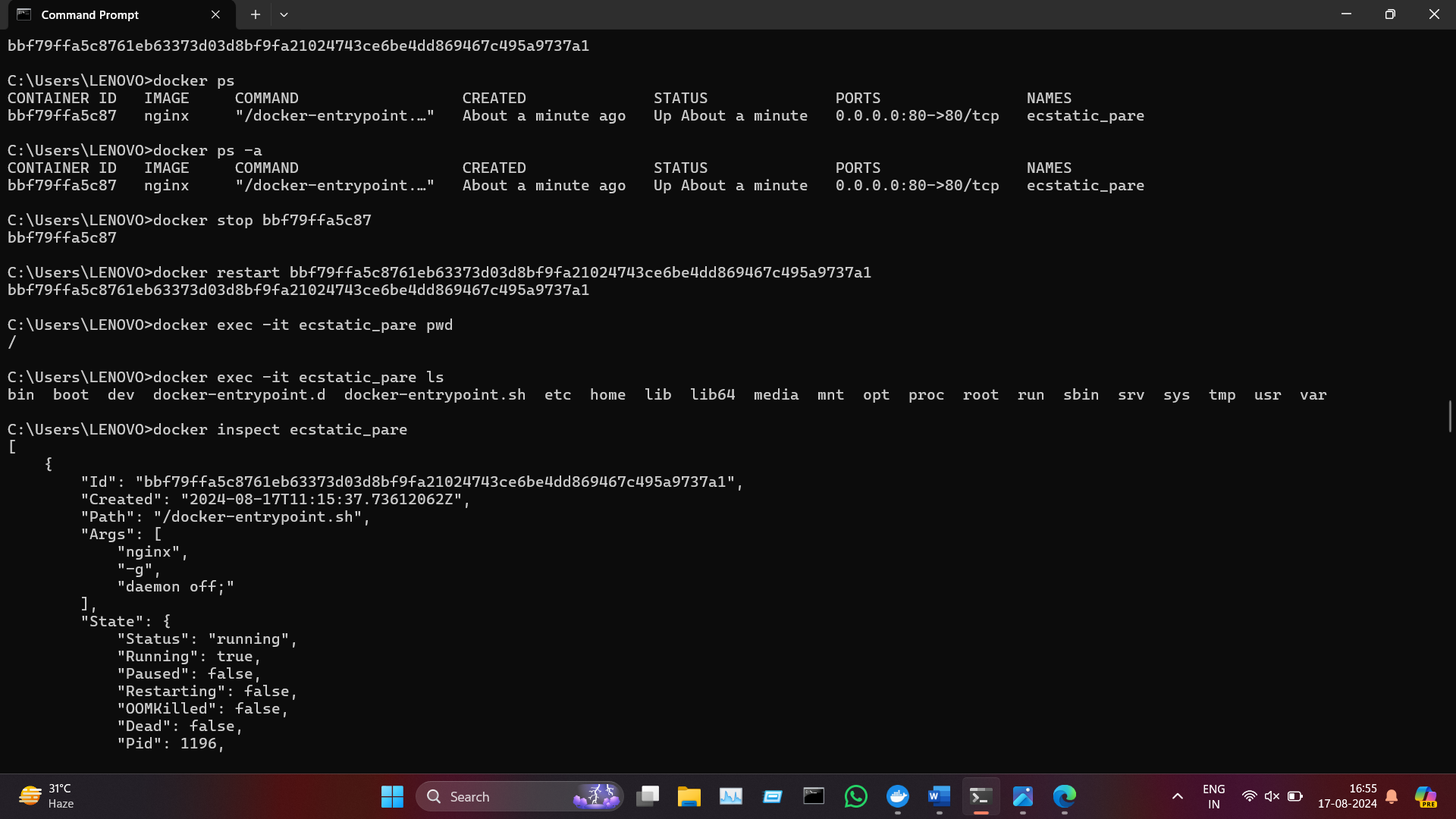
1. **Stop a Container**:

Stops a running container.



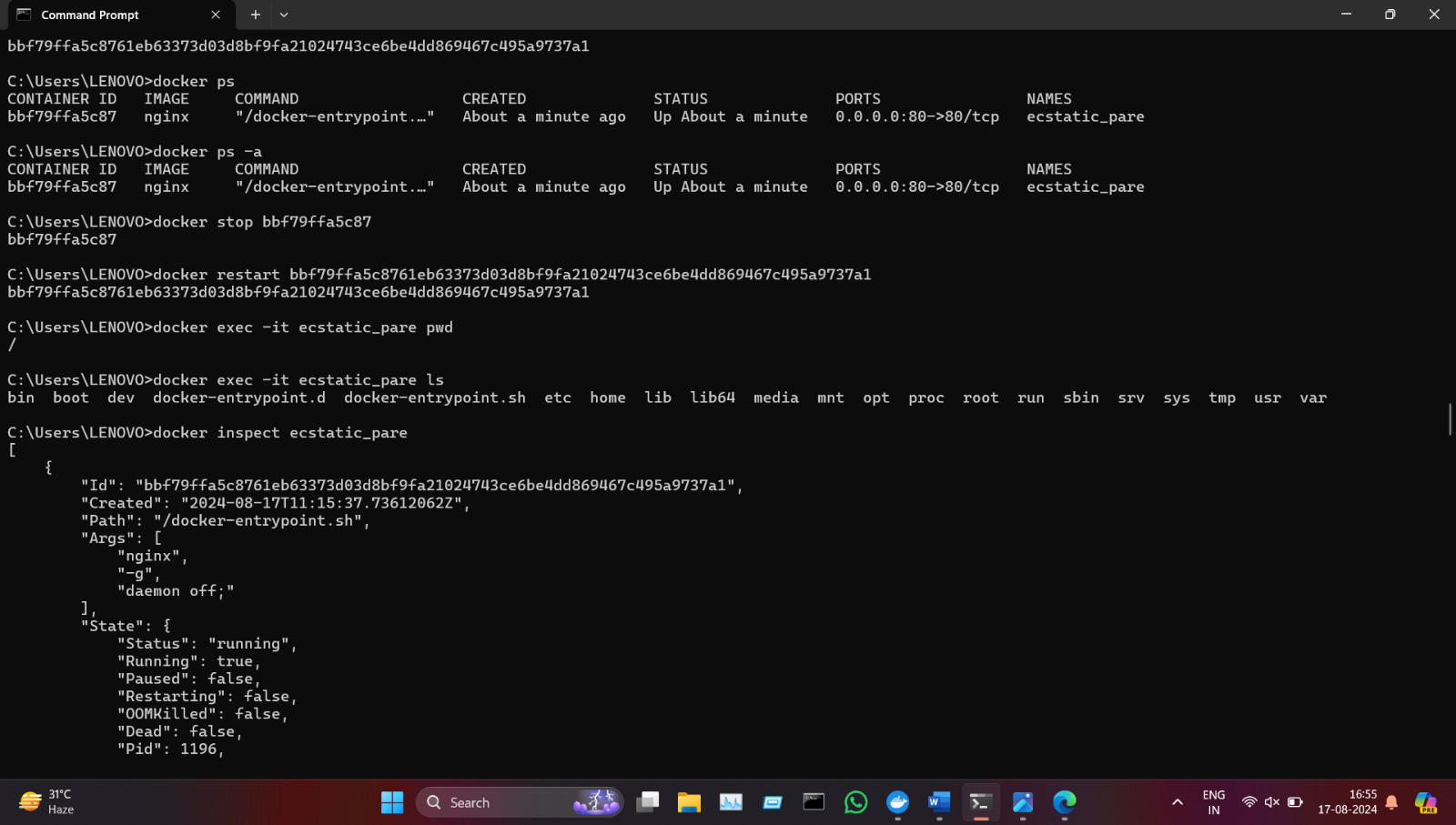
1. **Restart a Container**:

Restarts a container.



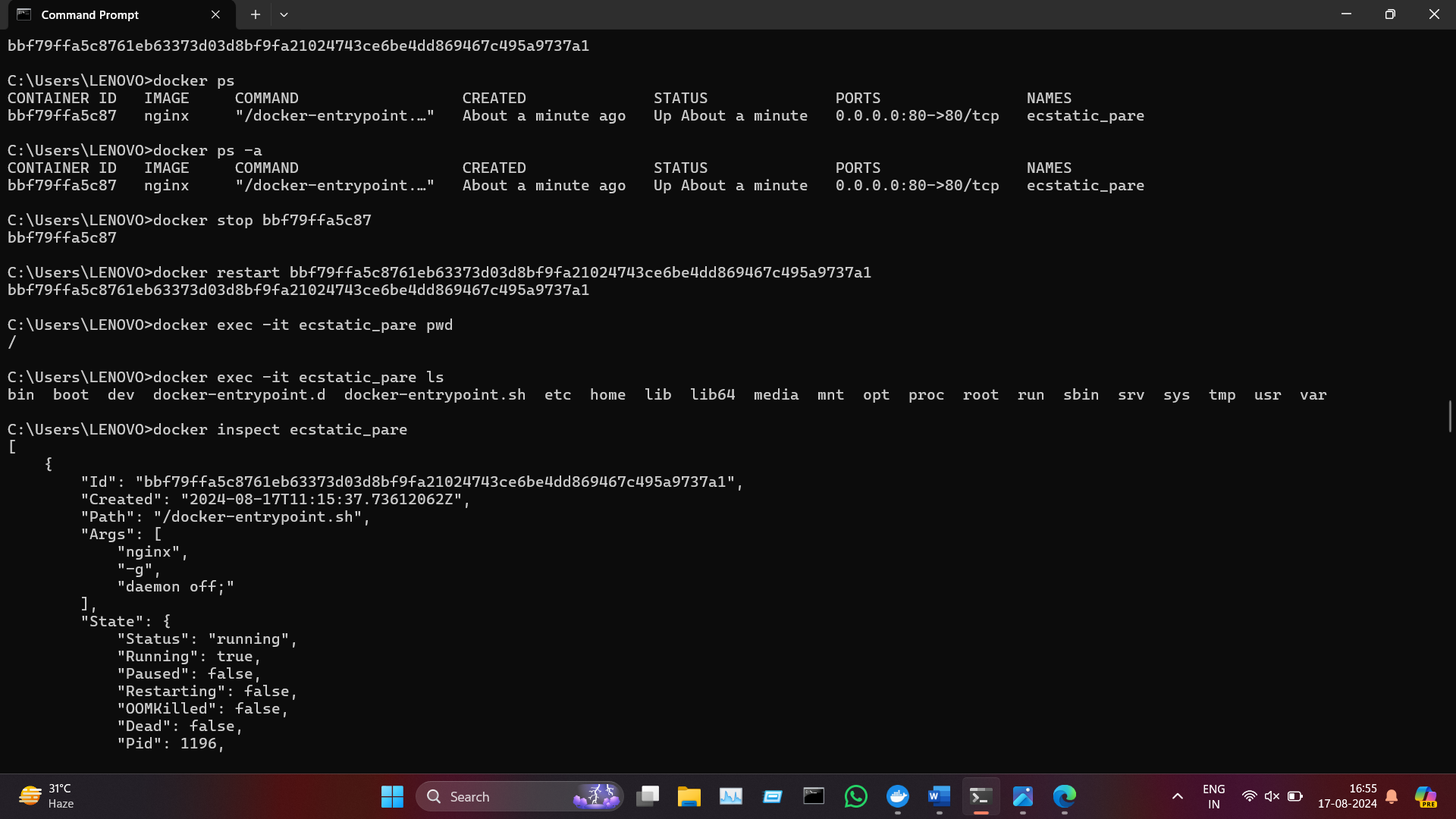
1. **Execute a Command in a Running Container**:

Runs a command inside a running container. The -it flag allows interactive mode.



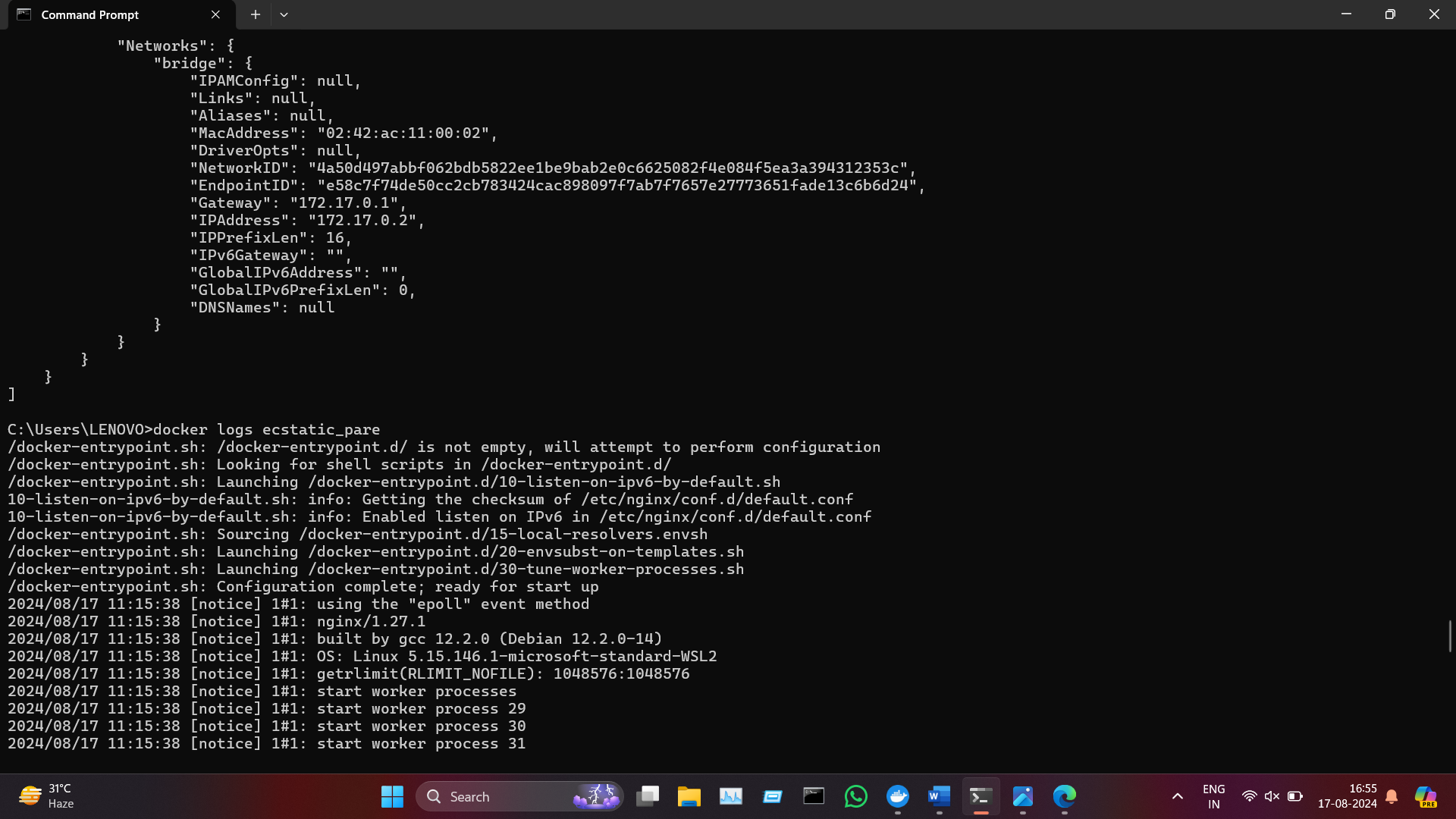
1. **Inspect a Container**:

Displays detailed information about a container in JSON format.



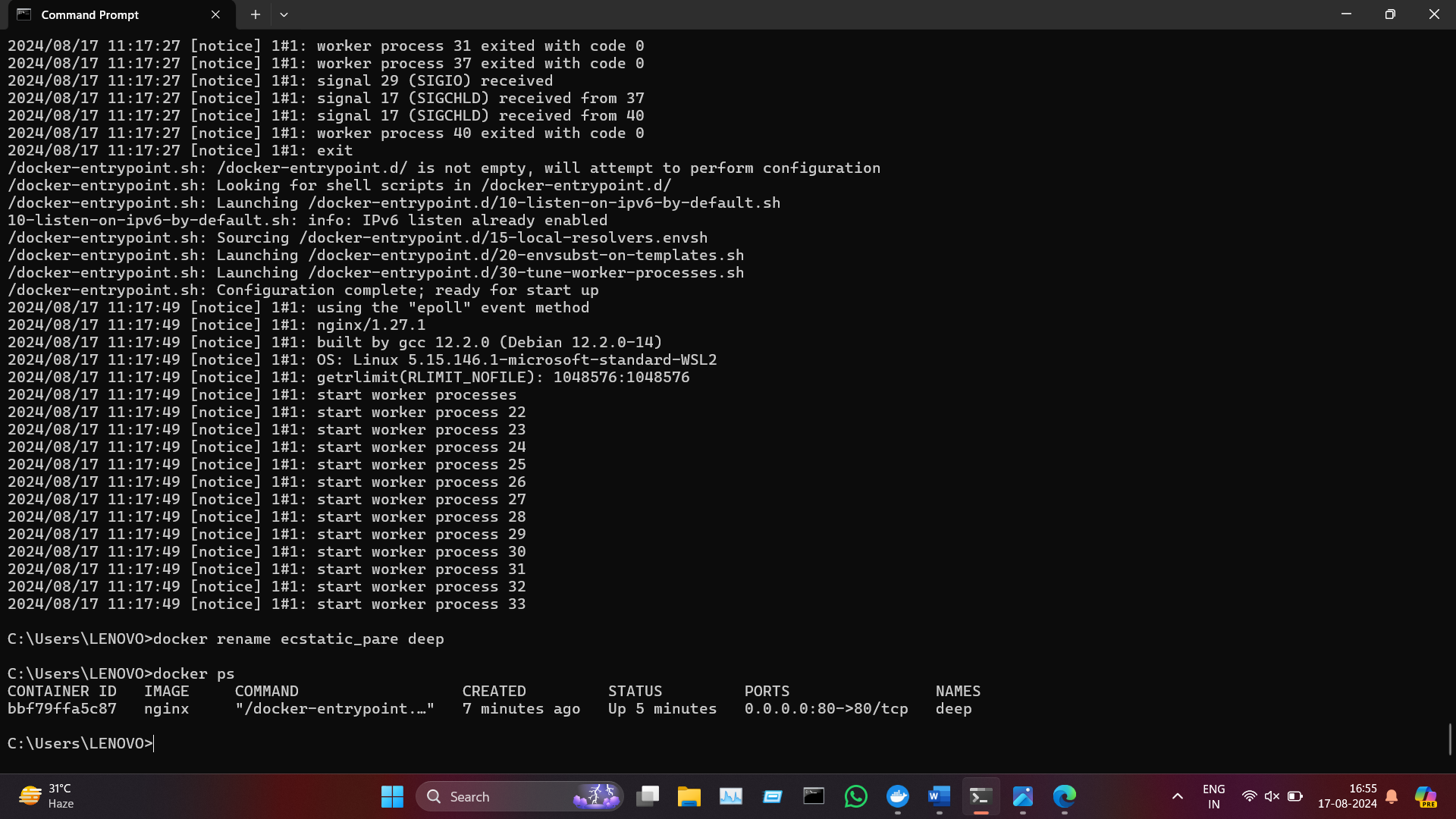
1. **View Container Logs**:

Shows the logs of a container.



1. **Rename a Container**:

Renames a container.



**Experiment:**

