

Useful Commands for Troubleshooting

Vagrant Commands (from the host CLI)

<code>vagrant up --provider=docker</code>	Build and start the Coffeeshop container.
<code>vagrant halt</code>	Stop the running container.
<code>vagrant destroy</code>	Remove the container completely (use this before a clean rebuild).
<code>vagrant ssh</code>	SSH into the container shell (as <code>vagrant</code> user).
<code>docker ps -a</code>	List all Docker containers (running and stopped).
<code>docker logs <container_id></code>	View the container's stdout/stderr logs. Useful for early boot issues.
<code>docker exec -it <container_id> /bin/bash</code>	Open a shell directly inside the container.

Apache Commands (inside the container – ssh via command line)

<code>sudo service apache2 restart</code>	Restart Apache (preferred command inside container).
<code>sudo service apache2 status</code>	Show current Apache status (works even if <code>systemctl</code> is not available).
<code>sudo apachectl -t</code>	Test Apache configuration syntax.
<code>sudo tail -n 50 /var/log/apache2/error.log</code>	View the last 50 lines of the Apache error log (most useful for debugging).
<code>sudo tail -f /var/log/apache2/error.log</code>	"Follow" the log in real time while reloading the page.
<code>sudo tail -n 50 /var/log/apache2/access.log</code>	View access logs to confirm incoming HTTP requests.
<code>ps aux</code>	<code>grep apache2`</code>
<code>curl -I http://localhost:8080</code>	Send a quick HTTP request and inspect headers (helps check if Apache is responding).

Postgres Database Commands (inside the container – ssh via command line)

<code>sudo service postgresql status</code>	Check if PostgreSQL is running (use this instead of <code>systemctl status postgresql</code>)
<code>sudo service postgresql restart</code>	Restart the PostgreSQL service
<code>sudo -u postgres psql</code>	Open the PostgreSQL interactive shell
<code>\l</code>	List all databases
<code>\c coffeeshop</code>	Connect to the <code>coffeeshop</code> database
<code>\dt</code>	List all tables in the current database
<code>\d table_name</code>	Describe the schema of a specific table
<code>SELECT * FROM coffeeshop_product LIMIT 10;</code>	View sample data from the <code>coffeeshop_product</code> table
<code>\q</code>	Quit the <code>psql</code> shell
<code>sudo tail -n 50 /var/log/postgresql/postgresql-14-main.log</code>	View the last 50 lines of the PostgreSQL log file