

0.4 VERIFY BOTH ENVIRONMENTS

At this point you've set up:

- simple-ollama-environment - local LLM sandbox.
- simple-watsonx-environment - [watsonx.ai](#) sandbox.

This final Day 0 module is a **sanity check** to make sure everything works *together*, and that you're ready for Day 1.

GOAL

- Confirm you can:
 - Run a local model via Ollama **inside a notebook**.
 - Run a Granite model via watsonx.ai **inside a notebook**.
- Confirm that:
 - The accelerator/ folder is present and notebooks open.
 - The labs-src/ reference notebooks open.
- End with a clear **ready / not ready** checklist.

QUICK VERIFICATION SCRIPT / NOTEBOOK

You can create a tiny notebook (e.g. verify_envs.ipynb) in your main folder that does:

```
# verify_envs.ipynb

import os
from dotenv import load_dotenv

print("🔍 Verifying environments...")

# 1) Test Ollama client
try:
    import ollama
    print("✅ ollama Python package is importable")

    res = ollama.chat(
        model="qwen2.5:0.5b-instruct", # or any model you've pulled
        messages=[{"role": "user", "content": "Say hello from Ollama."}],
    )
    print(f'Ollama says: "{res["messages"][0]["content"]}"')
except Exception as e:
    print("❌ Ollama check failed:", e)

# 2) Test watsonx.ai client
try:
    • Run ollama_quickstart.ipynb in simple-ollama-environment.
    load_dotenv() # pick up .env from simple-watsonx-environment if you run this there
    from ibm_watsonx_ai import Credentials
    from ibm_watsonx_ai.foundation_models import ModelInference
    from ibm_watsonx_ai.metanames import GenTextParamsMetaNames as GenParams

    api_key = os.getenv("IBM_CLOUD_API_KEY") or os.getenv("WATSONX_APIKEY")
    url = os.getenv("IBM_CLOUD_URL") or os.getenv("WATSONX_URL")
    project_id = os.getenv("IBM_CLOUD_PROJECT_ID") or os.getenv("PROJECT_ID")

    if not api_key or not url or not project_id:
```

You don't have to create this combined notebook, but it's a nice, quick sanity check.

Alternatively, you can simply:

- Run ollama_quickstart.ipynb in simple-ollama-environment.
- Run watsonx_quickstart.ipynb in simple-watsonx-environment.

PAIR CHECK EXERCISE

If you're in a classroom setting, do a quick pair verification:

1. Pair up with someone next to you.

2. Each person shows:

- Jupyter running in **simple-ollama-environment**.
- ollama_quickstart.ipynb successfully returns a model response.

3. Then each person shows:

- Jupyter running in **simple-watsonx-enviroment**.
- watsonx_quickstart.ipynb successfully returns a Granite response.

This often surfaces:

- Small typos in .env.
- Misconfigured paths.
- Port conflicts.

And you get to practice explaining what you did – which already reinforces Day 1 concepts.

CONFIRM ACCELERATOR & NOTEBOOK PACKS

Next, verify your project **scaffolding** is complete.

CHECK THE **accelerator/** DIRECTORY

From the `watsonx-workshop` repo root:

```
ls accelerator
```

You should see something like:

```
assets/ assettypes/ config.yaml rag/ service/ tools/ ui/ ...
```

Try opening one of the accelerator notebooks (read-only is fine for now):

- `accelerator/assets/notebook/notebook:Create_and_Deploy_QnA_AI_Service.ipynb`

Make sure:

- Jupyter loads the notebook.
- You can scroll through the cells.

CHECK THE **labs-src/** FOLDER

From the same repo:

COMMON FAILURE MODES

Here are some frequent issues and what to do about them.

OLLAMA ISSUES

- “Connection refused” / timeout
 - Ensure Ollama server is running:
 - In Docker: container up with port 11434 exposed.
 - Local: Ollama app/service started.
- “Model not found”
 - Pull the model:

```
ollama pull qwen2.5:0.5b-instruct
```

- Out-of-memory
 - Use smaller models (e.g., 0.5B–1B variants).

WATSONX.AI ISSUES

WHAT TO DO IF SOMETHING FAILS

If you hit issues:

1. Capture the error

- Copy the error message and the command you ran.

2. Ask for help

- Instructor / Slack / Teams channel.

3. Fallback paths

- If local Docker or Ollama is blocked:

- You can still follow many labs in the watsonx environment.
 - Or use a pre-provisioned VM / cloud notebook if your team provides one.

The key is: by the time Day 1 starts, you should at least have **one working LLM path** (preferably both).

END-OF-DAY 0 CHECKLIST

Tick off each of these:

-  simple-ollama-environment:
 - Repo cloned.
 - Jupyter working.
 - ollama_quickstart.ipynb returns a model response.
-  simple-watsonx-enviroment:
 - Repo cloned.
 - .env configured with valid IBM Cloud API key, URL, project ID.
 - Jupyter working.
 - watsonx_quickstart.ipynb returns a Granite response.
-  accelerator/:
 - Folder present.
 - Notebooks under accelerator/assets/notebook/ open.
-  labs-src/:
 - Notebooks open and are readable.