

Ollama Test

After the deployment, the Ollama EC2 instance will take some time to do the setup of the model. To check if it's finished we can ssh into the machine, check the start-up log and see if it's ready.

```
$ ssh -i labsuser.pem ec2-user@<Ollama instance IP>
$ cat /var/log/cloud-init-output.log
```

You should see something like the following:

```
Waiting for Ollama...
Ollama is up
pulling manifest
pulling dde5aa3fc5ff: 100% ██████████ 2.0 GB
pulling 966de95ca8a6: 100% ██████████ 1.4 KB
pulling fcc5a6bec9da: 100% ██████████ 7.7 KB
pulling a70ff7e570d9: 100% ██████████ 6.0 KB
pulling 56bb8bd477a5: 100% ██████████ 96 B
pulling 34bb5ab01051: 100% ██████████ 561 B
verifying sha256 digest
writing manifest
success
```

The model is now ready to be tested. To test it you can use the following command:

```
$ curl http://<Ollama EC2 Instance IP>:11434/api/generate -d '{
"model": "llama3.2",
"prompt": "Why is the sky blue?",
"stream": false
}'
```

And you should get a result like the following:

```
joao@joao-ThinkPad-L490:~/tecnico/sei/proj/sei-proj$ curl http://ec2-54-224-87-51.compute-1.amazonaws.com:11434/api/generate -d '{
"model": "llama3.2",
"prompt": "Why is the sky blue?",
"stream": false
}'

{"model": "llama3.2", "created_at": "2025-05-18T15:56:31.965913Z", "response": "The sky appears blue to us during the day due to a phenomenon called Rayleigh scattering. Here's a simplified explanation:\n\n1. Sunlight and tiny molecules: When sunlight enters Earth's atmosphere, it encounters tiny molecules of gases such as nitrogen (N2) and oxygen (O2). These molecules are much smaller than the wavelength of light.\n\n2. Scattering of light: As sun\nlight interacts with these tiny molecules, the shorter (blue) wavelengths are scattered more than the longer (red) wavelengths. This is known as Rayleigh scattering, named after the British physicist Lord Rayleigh, who first described it in the late 19th century.\n\n3. Blue light dominance: Since blue light has a shorter wavelength, it is scattered in all directions by the tiny molecules. As a result, more blue light reaches our eyes from all parts of the sky, giving it that characteristic blue appearance.\n\n4. Atmospheric conditions: The color of the sky can also be influenced by atmospheric conditions such as dust, water vapor, and pollutants. These particles can scatter all light in different ways, leading to variations in the apparent color of the sky.\n\nIn contrast, during sunrise and sunset, the sky often appears red or orange due to a different scattering process called Mie scattering. This occurs when longer wavelengths of light are scattered by larger particles in the atmosphere, such as dust, water droplets, or pollutants.\n\nIn summary, the sky is blue because of Rayleigh scattering, where shorter wavelengths of light (like blue) are scattered more than longer wavelengths (like red) by tiny molecules in the atmosphere." "done": true, "done_reason": "stop", "context": [128880, 9125, 128887, 271, 38766, 1383, 33025, 2690, 25, 6790, 220, 2366, 18, 27, 1, 128897, 128890, 882, 128897, 271, 18465, 374, 279, 13180, 6437, 39, 128899, 128890, 78191, 128897, 271, 791, 13180, 8111, 6437, 311, 603, 2391, 279, 1938, 4265, 311, 264, 25885, 2663, 13558, 64869, 72910, 13, 5810, 590, 264, 44899, 16540, 1473, 16, 13, 3164, 31192, 4238, 323, 13987, 35715, 96618, 3277, 48128, 29933, 9626, 590, 16975, 11, 433, 35880, 13987, 35715, 315, 45612, 1778, 439, 47503, 320, 45, 17, 8, 323, 24463, 320, 46, 17, 570, 4314, 35715, 527, 1798, 9333, 1189, 279, 44480, 315, 3177, 627, 17, 13, 3164, 3407, 31430, 315, 3177, 960, 10, 1060, 40128, 84261, 449, 1521, 13987, 35715, 11, 279, 24218, 320, 12481, 8, 93959, 527, 38067, 810, 1189, 279, 5129, 320, 1171, 8, 93959, 13, 1115, 374, 3967, 439, 13558, 64869, 72910, 11, 7080, 1386, 279, 8013, 83323, 18425, 13558, 64869, 11, 889, 1170, 7633, 433, 304, 2, 79, 3389, 220, 777, 339, 9478, 627, 18, 13, 3164, 18544, 3177, 44592, 96618, 8876, 6637, 3177, 780, 264, 24218, 46480, 11, 433, 374, 38067, 304, 482, 18445, 555, 279, 13987, 35715, 13, 1666, 264, 1121, 11, 810, 6437, 3177, 25581, 1057, 6548, 595, 682, 5590, 315, 279, 13180, 11, 7231, 433, 430, 29483, 6437, 11341, 627, 19, 13, 3164, 1688, 8881, 33349, 4787, 96618, 578, 1933, 315, 279, 13180, 649, 1101, 387, 28160, 535, 45475, 4787, 1778, 439, 16174, 11, 3890, 38752, 11, 323, 83661, 13, 4314, 19252, 649, 45577, 3177, 304, 2204, 5627, 11, 4522, 311, 2, 7139, 384, 279, 10180, 1933, 315, 279, 13180, 382, 644, 13168, 11, 2391, 44919, 323, 44084, 11, 279, 13180, 3629, 8111, 2579, 477, 19887, 6245, 311, 264, 2284, 72910, 1928, 2663, 380, 448, 72910, 13, 1115, 13980, 994, 5129, 93959, 315, 3177, 527, 38867, 455, 8294, 19252, 304, 279, 16975, 11, 1778, 439, 16174, 11, 3890, 7118, 98592, 11, 477, 83661, 382, 4516, 11, 384, 12399, 11, 279, 13180, 374, 6437, 1680, 315, 13558, 64869, 72910, 11, 1485, 24218, 93959, 315, 3177, 320, 4908, 6437, 8, 527, 38867, 810, 1189, 5129, 93959, 320, 4908, 2579, 8, 555, 1, 3987, 35715, 304, 279, 16975, 13], "total_duration": 66533864291, "load_duration": 2733491057, "prompt_eval_count": 31, "prompt_eval_duration": 2466194283, "eval_count": 327, "eval_duration": 61352544616} joao@joao-ThinkPad-L490:~/tecnico/sei/proj/sei-proj$
```