

# Prove

Giza provides two methods for proving Orion Cairo programs: through the CLI or directly after running inference on the Giza Platform. Below are detailed instructions for both methods

## Option 1: Prove a Model After Running Inference

### Deploying Your Model

After deploying your model on the Giza Platform, you will receive a URL for your deployed model. Refer to the [Endpoints section](#) for more details on deploying models.

### Running Inference

To run inference, use the `/cairo_run` endpoint of your deployed model's URL. For example:

...

Copy `https://deployment-gizabrain-38-1-53427f44-dagsgas-ew.a.run.app/cairo_run`

...

This action will execute the inference, generate Trace and Memory files on the platform, and initiate a proving job. The inference process will return the output result along with a request ID.

### Checking Proof Status

To check the status of your proof, use the following command:

...

Copy `giza endpoints get-proof --model-id--version-id --endpoint-id --proof-id`

...

### Downloading Your Proof

Once the proof is ready, you can download it using:

...

Copy `giza endpoints download-proof --model-id--version-id --endpoint-id --proof-id --output-path`

...

You can find an extensive example in [Giza Action tutorial](#)

## Option 2: Proving a Model Directly from the CLI

Alternatively, you can prove a model directly using the CLI without deploying the model for inference. This method requires providing Trace and Memory files, which can only be obtained by running [CairoVM](#) in proof mode.

### Running the Prove Command

Execute the following command to prove your model:

...

Copy `giza prove --trace--memory --output-path`

...

This option is less preferred due to the necessity of dealing with CairoVM. If you opt for this method, ensure you use the following commit of CairoVM: `1a78237`.

[Previous Deploy Next Verify](#)

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