Profiling vLLM

We support tracing vLLM workers using the `torch.profiler` module. You can enable tracing by setting the `VLLM_TORCH_PROFILER_DIR` environment variable to the directory where you want to save the traces: `VLLM_TORCH_PROFILER_DIR=/mnt/traces/`

The OpenAl server also needs to be started with the `VLLM_TORCH_PROFILER_DIR` environment variable set.

When using `benchmarks/benchmark_serving.py`, you can enable profiling by passing the `--profile` flag.

:::{warning}

Only enable profiling in a development environment.

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Traces can be visualized using https://ui.perfetto.dev/>.

:::{tip}

Only send a few requests through vLLM when profiling, as the traces can get quite large. Also, no need to untar the traces, they can be viewed directly.

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:::{tip}

To stop the profiler - it flushes out all the profile trace files to the directory. This takes time, for example for about 100 requests worth of data for a llama 70b, it takes about 10 minutes to flush out on a H100.

