

# Expiration Timers

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 4)**

Unknown directive type "automodule".

```
.. automodule:: torch.distributed.elastic.timer
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 5)**

Unknown directive type "currentmodule".

```
.. currentmodule:: torch.distributed.elastic.timer
```

## Client Methods

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 9)**

Unknown directive type "autofunction".

```
.. autofunction:: torch.distributed.elastic.timer.configure
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 11)**

Unknown directive type "autofunction".

```
.. autofunction:: torch.distributed.elastic.timer.expires
```

## Server/Client Implementations

Below are the timer server and client pairs that are provided by torchelastic.

### Note

Timer server and clients always have to be implemented and used in pairs since there is a messaging protocol between the server and client.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 21)**

Unknown directive type "autoclass".

```
.. autoclass:: LocalTimerServer
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 23)**

Unknown directive type "autoclass".

```
.. autoclass:: LocalTimerClient
```

## Writing a custom timer server/client

To write your own timer server and client extend the `torch.distributed.elastic.timer.TimerServer` for the server and `torch.distributed.elastic.timer.TimerClient` for the client. The `TimerRequest` object is used to pass messages between the server and client.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 34)**

Unknown directive type "autoclass".

```
.. autoclass:: TimerRequest
   :members:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 37)**

Unknown directive type "autoclass".

```
.. autoclass:: TimerServer
   :members:
```

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master) (docs) (source) (elastic) timer.rst, line 40)**

Unknown directive type "autoclass".

```
.. autoclass:: TimerClient
   :members:
```