

Elastic Agent

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

Unknown directive type "automodule".

```
.. automodule:: torch.distributed.elastic.agent
```

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

Unknown directive type "currentmodule".

```
.. currentmodule:: torch.distributed.elastic.agent
```

Server

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\[pytorch-master] [docs] [source] [elastic]agent.rst, line 10)

Unknown directive type "automodule".

```
.. automodule:: torch.distributed.elastic.agent.server
```

Below is a diagram of an agent that manages a local group of workers.



Concepts

This section describes the high-level classes and concepts that are relevant to understanding the role of the `agent` in `torchelastic`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\[pytorch-master] [docs] [source] [elastic]agent.rst, line 22)

Unknown directive type "currentmodule".

```
.. currentmodule:: torch.distributed.elastic.agent.server
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\[pytorch-master] [docs] [source] [elastic]agent.rst, line 24)

Unknown directive type "autoclass".

```
.. autoclass:: ElasticAgent
   :members:
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\[pytorch-master] [docs] [source] [elastic]agent.rst, line 27)

Unknown directive type "autoclass".

```
.. autoclass:: WorkerSpec
   :members:
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\[pytorch-master] [docs] [source] [elastic]agent.rst, line 30)

Unknown directive type "autoclass".

```
.. autoclass:: WorkerState
   :members:
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master [docs] [source] [elastic]agent.rst, line 33)

Unknown directive type "autoclass".

```
.. autoclass:: Worker
   :members:
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master [docs] [source] [elastic]agent.rst, line 36)

Unknown directive type "autoclass".

```
.. autoclass:: WorkerGroup
   :members:
```

Implementations

Below are the agent implementations provided by torchelastic.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master [docs] [source] [elastic]agent.rst, line 44)

Unknown directive type "currentmodule".

```
.. currentmodule:: torch.distributed.elastic.agent.server.local_elastic_agent
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master [docs] [source] [elastic]agent.rst, line 45)

Unknown directive type "autoclass".

```
.. autoclass:: LocalElasticAgent
```

Extending the Agent

To extend the agent you can implement `ElasticAgent` directly, however we recommend you extend `SimpleElasticAgent` instead, which provides most of the scaffolding and leaves you with a few specific abstract methods to implement.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master [docs] [source] [elastic]agent.rst, line 56)

Unknown directive type "currentmodule".

```
.. currentmodule:: torch.distributed.elastic.agent.server
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master [docs] [source] [elastic]agent.rst, line 57)

Unknown directive type "autoclass".

```
.. autoclass:: SimpleElasticAgent
   :members:
   :private-members:
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\elastic\pytorch-master [docs] [source] [elastic]agent.rst, line 61)

Unknown directive type "autoclass".

```
.. autoclass:: torch.distributed.elastic.agent.server.api.RunResult
```