TancarFlow

TensorFlow API r1.4

tf.train.Server

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Class Server

Defined in tensorflow/python/training/server_lib.py.

See the guide: Training > Distributed execution

An in-process TensorFlow server, for use in distributed training.

A **tf.train.Server** instance encapsulates a set of devices and a **tf.Session** target that can participate in distributed training. A server belongs to a cluster (specified by a **tf.train.ClusterSpec**), and corresponds to a particular task in a named job. The server can communicate with any other server in the same cluster.

Properties

server_def

Returns the tf.train.ServerDef for this server.

Returns:

A **tf.train.ServerDef** protocol buffer that describes the configuration of this server.

target

Returns the target for a **tf.Session** to connect to this server.

To create a tf.Session that connects to this server, use the following snippet:

```
server = tf.train.Server(...)
with tf.Session(server.target):
# ...
```

Returns:

A string containing a session target for this server.

__init__

```
__init__(
    server_or_cluster_def,
    job_name=None,
    task_index=None,
    protocol=None,
    config=None,
    start=True
)
```

Creates a new server with the given definition.

The job_name, task_index, and protocol arguments are optional, and override any information provided in server_or_cluster_def.

Args:

- server_or_cluster_def: A tf.train.ServerDef or tf.train.ClusterDef protocol buffer, or a
 tf.train.ClusterSpec object, describing the server to be created and/or the cluster of which it is a member.
- job_name: (Optional.) Specifies the name of the job of which the server is a member. Defaults to the value in server_or_cluster_def, if specified.
- task_index: (Optional.) Specifies the task index of the server in its job. Defaults to the value in
 server_or_cluster_def, if specified. Otherwise defaults to 0 if the server's job has only one task.
- protocol: (Optional.) Specifies the protocol to be used by the server. Acceptable values include "grpc". Defaults to the value in server_or_cluster_def, if specified. Otherwise defaults to "grpc".
- config: (Options.) A tf.ConfigProto that specifies default configuration options for all sessions that run on this server
- start: (Optional.) Boolean, indicating whether to start the server after creating it. Defaults to True.

Raises:

• tf.errors.OpError: Or one of its subclasses if an error occurs while creating the TensorFlow server.

create_local_server

```
@staticmethod
create_local_server(
   config=None,
   start=True
)
```

Creates a new single-process cluster running on the local host.

This method is a convenience wrapper for creating a **tf.train.Server** with a **tf.train.ServerDef** that specifies a single-process cluster containing a single task in a job called **"local"**.

Args:

 config: (Options.) A tf.ConfigProto that specifies default configuration options for all sessions that run on this server.

join join() Blocks until the server has shut down. This method currently blocks forever. Raises: • tf.errors.OpError: Or one of its subclasses if an error occurs while joining the TensorFlow server. start start() Starts this server. Raises: • tf.errors.OpError: Or one of its subclasses if an error occurs while starting the TensorFlow server. Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 3.0 License, and code samples are licensed under the Apache 2.0 License. For details, see our Site Policies. Java is a registered trademark of Oracle and/or its affiliates. Last updated November 2, 2017. **Stay Connected** Blog GitHub Twitter Support Issue Tracker Release Notes Stack Overflow **English** Terms | Privacy

start : (Optional.) Boolean, indicating whether to start the server after creating it. Defaults to True.

Returns:

A local tf.train.Server.