

tf.test.create_local_cluster

```
create_local_cluster(  
    num_workers,  
    num_ps,  
    protocol='grpc',  
    worker_config=None,  
    ps_config=None  
)
```

Defined in [tensorflow/python/framework/test_util.py](#).

Create and start local servers and return the associated `Server` objects.

Example:

```
workers, _ = tf.test.create_local_cluster(num_workers=2, num_ps=2)  
  
worker_sessions = [tf.Session(w.target) for w in workers]  
  
with tf.device("/job:ps/task:0"):  
    ...  
with tf.device("/job:ps/task:1"):  
    ...  
with tf.device("/job:worker/task:0"):  
    ...  
with tf.device("/job:worker/task:1"):  
    ...  
  
worker_sessions[0].run(...)
```

Args:

- `num_workers`: Number of worker servers to start.
- `num_ps`: Number of PS servers to start.
- `protocol`: Communication protocol. Allowed values are documented in the documentation of `tf.train.Server`.
- `worker_config`: (optional) `ConfigProto` to initialize workers. Can be used to instantiate multiple devices etc.
- `ps_config`: (optional) `ConfigProto` to initialize PS servers.

Returns:

A tuple `(worker_servers, ps_servers)`. `worker_servers` is a list of `num_workers` objects of type `tf.train.Server` (all running locally); and `ps_servers` is a list of `num_ps` objects of similar type.

Raises:

- `ImportError`: if portpicker module was not found at load time

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