

tfdbg.watch_graph_with_blacklists

```
watch_graph_with_blacklists(
    run_options,
    graph,
    debug_ops='DebugIdentity',
    debug_urls=None,
    node_name_regex_blacklist=None,
    op_type_regex_blacklist=None,
    tensor_dtype_regex_blacklist=None,
    tolerate_debug_op_creation_failures=False,
    global_step=-1
)
```

Defined in [tensorflow/python/debug/lib/debug_utils.py](#).

See the guide: [TensorFlow Debugger > Functions for adding debug watches](#)

Add debug tensor watches, blacklisting nodes and op types.

This is similar to `watch_graph()`, but the node names and op types are blacklisted, instead of whitelisted.

N.B.: 1. Under certain circumstances, the `Tensor` may not get actually watched (e.g., if the node of the `Tensor` is constant-folded during runtime). 2. For debugging purposes, the `parallel_iteration` attribute of all `tf.while_loop`s in the graph are set to 1 to prevent any node from being executed multiple times concurrently. This change does not affect subsequent non-debugged runs of the same `tf.while_loop`s.

Args:

- `run_options`: An instance of `config_pb2.RunOptions` to be modified.
- `graph`: An instance of `ops.Graph`.
- `debug_ops`: (`str` or `list` of `str`) name(s) of the debug op(s) to use. See the documentation of `watch_graph` for more details.
- `debug_urls`: URL(s) to send debug values to, e.g., `file:///tmp/tfdbg_dump_1`, `grpc://localhost:12345`.
- `node_name_regex_blacklist`: Regular-expression blacklist for node_name. This should be a string, e.g., `"(weight_[0-9]+|bias_.*)"`.
- `op_type_regex_blacklist`: Regular-expression blacklist for the op type of nodes, e.g., `"(Variable|Add)"`. If both `node_name_regex_blacklist` and `op_type_regex_blacklist` are set, the two filtering operations will occur in a logical **OR** relation. In other words, a node will be excluded if it hits either of the two blacklists; a node will be included if and only if it hits neither of the blacklists.
- `tensor_dtype_regex_blacklist`: Regular-expression blacklist for Tensor data type, e.g., `"^int.*"`. This blacklist operates in logical **OR** relations to the two whitelists above.
- `tolerate_debug_op_creation_failures`: (`bool`) whether debug op creation failures (e.g., due to dtype incompatibility) are to be tolerated by not throwing exceptions.
- `global_step`: (`int`) Optional global_step count for this debug tensor watch.

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