Deployment Configurations
Best Practices

debug

For optimal performance, the parameter debug should be set to 0 in the BCC file under `[baffleshield]` section

`debug = 0`

However, for debugging, or for extracting information regarding the queries, the value can be set to 8 or 24, based on request from Baffle Support team.

This is a dynamic setting, and will be picked up by the Baffle Shield pods, based on the frequency of the configRefresh parameter.

monitorPort

The healthcheck monitoring port should be 8555 and this should be set under `[baffleshield]` section in the BCC

`monitorPort = 8555`

The high count of connections is resolved with this configuration. This is static setting and the shield process will be restarted and the parameter takes effect only after the new process comes up.

RBAC

If RBAC is configured in the implementation, then these parameters have to be included in the BCC as a separate section.

```
[rbac]

    mode = "SUPPORTED"

    userDetermination = "SESSION"
```

This is a static setting and the shield process will be restarted and the parameter takes effect only after the new process comes up.

configRefresh

This parameter controls the period at which the configuration is polled for updates. This includes:

- updates to the BaffleCommonConfig file (aka BCC)
- updates to the BafflePrivacySchema file (aka BPS)
- updates to the DB's information_schema

By default the polling cycle period is set to 3000 milliseconds. If the configuration files or table configuration are modified, the changes will be detected during the next polling cycle.
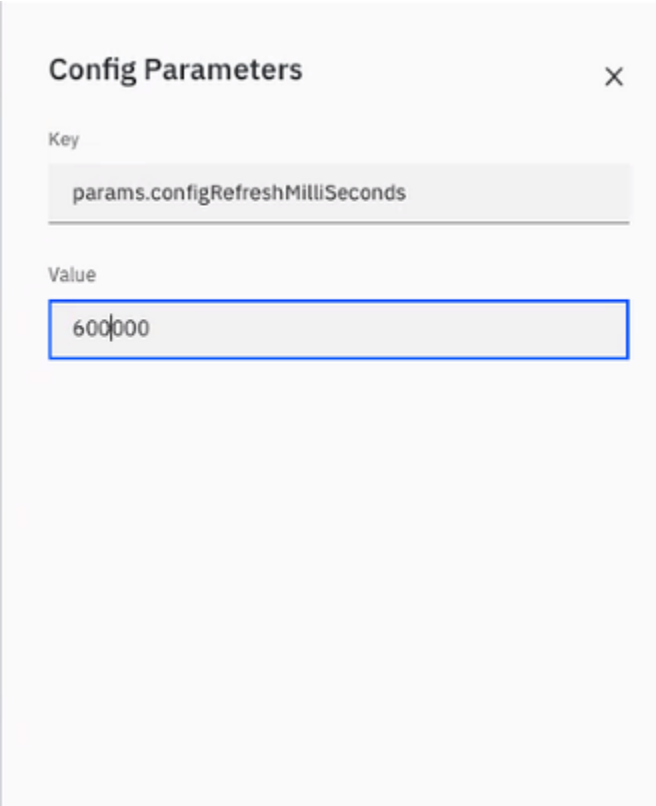
There are certain queries that are run by the proxy on the DB's information_schema metadata table. These queries need to be run in order to grab any changes happening to the configurations. But if the frequency of the queries have to be modified for whatever reason, please check with the Baffle Support before making any changes.

For the frequency to be modified, the parameter `params.configRefreshMilliSeconds` can be modified from Baffle Manager. This can be accessed under `Config` in `Create Deployment` menu.

The number of queries per pod is reduced with this `params.configRefreshMilliSeconds` change.

The following example sets the config refresh to 10 min.

When you make this change, the BCC file is correspondingly changed and reflected as follows.

```
[params]
   tier = 0
   type = "bs"
   configRefreshMilliSeconds = 600000
```

This is a static setting, and the shield process will be restarted and the parameter takes effect only after the new process comes up. Based on the value of this setting, any changes from UI in the Baffle Common Configuration and Baffle Privacy Schema, will be reflected in the pods, only after the above time.

It is possible that this setting may cause an exception when the wait timeout is set to a lower value than the configRefresh time, but this is benign, since the Baffle Shield can open a new connection.

keyRefresh

The following parameters can be added/modified in the BCC file

```
[keyInfo]
   keyRefreshSeconds = 30
```

This is the duration for which the key is cached in shield. The sessions which are already in flight will not be affected. If this is set to a large value, the key material is cached in the shield pod for that period of time. Once the keyRefreshSeconds elapses, the shield will connect to KMS to download the key material, decrypt it, and store it in the local key cache.

This is a static setting, and the shield process will be restarted and the parameter takes effect only after the new process comes up.