

Debug with More Verbose Logs

If you still encounter problems with Kerberos on Linux, you can start both `mongod` and `mongo` (or another client) with the environment variable `KRB5_TRACE` set to different files to produce more verbose logging of the Kerberos process to help further troubleshooting. For example, the following starts a standalone `mongod` with `KRB5_TRACE` set:

```
env KRB5_KTNAME=/opt/mongodb/mongod.keytab \
KRB5_TRACE=/opt/mongodb/log/mongodb-kerberos.log \
/opt/mongodb/bin/mongod --dbpath /opt/mongodb/data \
--fork --logpath /opt/mongodb/log/mongod.log \
--auth --setParameter authenticationMechanisms=GSSAPI
```

Common Error Messages

In some situations, MongoDB will return error messages from the GSSAPI interface if there is a problem with the Kerberos service. Some common error messages are:

GSSAPI error in client while negotiating security context. This error occurs on the client and reflects insufficient credentials or a malicious attempt to authenticate.

If you receive this error, ensure that you are using the correct credentials and the correct fully qualified domain name when connecting to the host.

GSSAPI error acquiring credentials. This error occurs during the start of the `mongod` or `mongos` and reflects improper configuration of the system hostname or a missing or incorrectly configured keytab file.

If you encounter this problem, consider the items in the [Kerberos Configuration Checklist](#) (page 380), in particular, whether the SPN in the [keytab file](#) (page 332) matches the SPN for the `mongod` or `mongos` instance.

To determine whether the SPNs match:

1. Examine the keytab file, with the following command:

```
klist -k <keytab>
```

Replace `<keytab>` with the path to your keytab file.

2. Check the configured hostname for your system, with the following command:

```
hostname -f
```

Ensure that this name matches the name in the keytab file, or start `mongod` or `mongos` with the `--setParameter saslHostName=<hostname>`.

See also:

- [Kerberos Authentication](#) (page 331)
- [Configure MongoDB with Kerberos Authentication on Linux](#) (page 372)
- [Configure MongoDB with Kerberos Authentication on Windows](#) (page 376)

Implement Field Level Redaction

The `$redact` pipeline operator restricts the contents of the documents based on information stored in the documents themselves.