

- Core of authentication is the db
- 3 categories:
 - something you know
 - something you are
 - something you have
- 3 Primary Auth Types:
 - OAuth
 - Token Based
 - Session/Cookie Based
- OAuth: Open standard authentication protocol
 - federated model: auth protocol is split across multiple servers
- Token-based: authentication protocol which allows users to verify their identity and in return receive a unique access token.
 - Tokens are harder to steal than passwords
 - A 3rd party generates the token and the encryption of the token
 - Tokens can be re-generated at a configurable time-period
- Session-based: authentication protocol which allows users to verify their identity and in return the server will create a corresponding session and session id. The session id is then stored on a cookie on the user's browser. While the user stays logged in the cookie would be sent along with every subsequent request.
 - Common model for simple sites
 - Closed system, no 3rd party
 - Scaling is difficult to memory constraints
- MongoDB Auth Commands:
 - Add User:
 - Db.addUser("mytestuser","password")
 - Db.addUser("myreadonlyuser", "password", true)
 - Login
 - Db.auth("mytestuser", "password")
 - Logout
 - Db.logout("mytestuser")
- Mongo CRUD
 - Create = Insert
 - Read = Find
 - Update = Update
 - Destroy = Remove

- All Mongo CRUD= JSON
- Mongoose CRUD
 - Create = save or insert
 - Read = find (also findbyid)
 - Update = save or update
 - Destroy = Remove
- MongoDB Compass
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