



ATTACKING GRAPHQL

CHEAT SHEET

Basic Example

GraphQL Request

```
{
  users {
    id
    username
    role
  }
}
```

GraphQL Response

```
{
  "data": {
    "users": [
      {
        "id": 1,
        "username": "htb-stdnt",
        "role": "user"
      },
      {
        "id": 2,
        "username": "admin",
        "role": "admin"
      }
    ]
  }
}
```

Introspection Queries

GraphQL Types

```
{
  __schema {
    types {
      name
    }
  }
}
```

GraphQL Queries

```
{
  __schema {
```

```
    queryType {
      fields {
        name
        description
      }
    }
  }
}
```

General Introspection

```
query IntrospectionQuery {
  __schema {
    queryType { name }
    mutationType { name }
    subscriptionType { name }
    types {
      ...FullType
    }
    directives {
      name
      description

      locations
      args {
        ...InputValue
      }
    }
  }
}

fragment FullType on __Type {
  kind
  name
  description

  fields(includeDeprecated: true) {
    name
    description
    args {
      ...InputValue
    }
    type {
      ...TypeRef
    }
    isDeprecated
    deprecationReason
  }
  inputFields {
    ...InputValue
  }
  interfaces {
    ...TypeRef
  }
  enumValues(includeDeprecated: true) {
    name
    description
    isDeprecated
    deprecationReason
  }
  possibleTypes {
    ...TypeRef
  }
}

fragment InputValue on __InputValue {
  name
  description
  type { ...TypeRef }
```

```

    defaultValue
  }

  fragment TypeRef on __Type {
    kind
    name
    ofType {
      kind
      name
      ofType {
        kind
        name
        ofType {
          kind
          name
          ofType {
            kind
            name
            ofType {
              kind
              name
            }
          }
        }
      }
    }
  }
}

```

Batching Example

```

POST /graphql HTTP/1.1
Host: 172.17.0.2
Content-Length: 86
Content-Type: application/json

```

```

[
  {
    "query":"{user(username: \"admin\") {uuid}}"
  },
  {
    "query":"{post(id: 1) {title}}"
  }
]

```

Mutation Example

```

mutation {
  registerUser(input: {username: "vautia", password: "5f4dcc3b5aa765d61d8327deb882cf99", role: "user", msg: "newUser"}) {
    user {
      username
      password
      msg
      role
    }
  }
}

```


Tools

- [graphw00f](#)
- [graphql-voyager](#)
- [GraphQL-Cop](#)
- [InQL](#)