Kubernetes Deployment

```
~/user-management    master ?4
kubectl get pods
NAME                            READY   STATUS    RESTARTS      AGE
express-app-75d6d9bd9c-h5d7h    1/1     Running   3 (14m ago)   58m

~/user-management    master ?4
kubectl get services
NAME               TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
backend-service1   NodePort    10.109.242.232   <none>        3000:31689/TCP   4m10s
kubernetes         ClusterIP   10.96.0.1        <none>        443/TCP          60m
```

New Collection / **Login**

| POST ∨ | http://localhost:31689/api/login/ |

Params   Authorization   Headers (9)   **Body ●**   Pre-request Script   Tests   Settings

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL   **JSON** ∨

```
1  {
2      "name": "brian",
3      "password": "123456"
4  }
```

Body   Cookies   Headers (7)   Test Results   ⊕ Status: 200 OK

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥

```
1  {
2      "message": "Login successful",
3      "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
           eyJ1c2VySWQiOiI2NDQzMDM5ZjJjNmFjNzdkZWNhMzJhZWQiLCJyb2xlIjoiVXNlciIsImlhdCI6MTY4MjI3MjY2NX0.
           Sq9shKdf_FV1BGvy6n14jagP-wCUWV817wGapNTGVvg"
4  }
```

Postman Documentation Link
New Collection (getpostman.com)

Architecture Diagram

```
┌──────────────┐                  ┌──────────────┐
│     Web      │◄────────────────►│  Login API   │◄──────────────────┐
│ Application  │                  │              │                   │
└──────────────┘                  └──────────────┘                   │
                                                                     │
                        ┌──────────────────────────────────┐        │
                        │ API Layer                         │        │
                        │ (ExpressJS)   ┌────────────────┐  │        │
                        │               │ Create User API│  │        │
┌──────────────┐        │               └────────────────┘  │        │
│     Web      │◄──┐    │                                    │        │
│ Application  │   │    │               ┌────────────────┐  │        ▼
│    Admin     │──►├───►│               │ Update User API│  │   ┌──────────────┐
└──────────────┘   │    │               └────────────────┘  │   │              │
                   │    │◄──────────────────────────────────┼──►│   MongoDB    │
┌──────────────┐   │  ◄─┤               ┌────────────────┐  │   │              │
│     Web      │◄──┤    │               │ Delete User API│  │   └──────────────┘
│ Application  │──►│    │               └────────────────┘  │
│     User     │   │    │                                    │
└──────────────┘   │    │               ┌────────────────┐  │
     Middleware    │    │               │ Read User API  │  │
 (Check authentication│  │               └────────────────┘  │
      and role)    │    └──────────────────────────────────┘
```