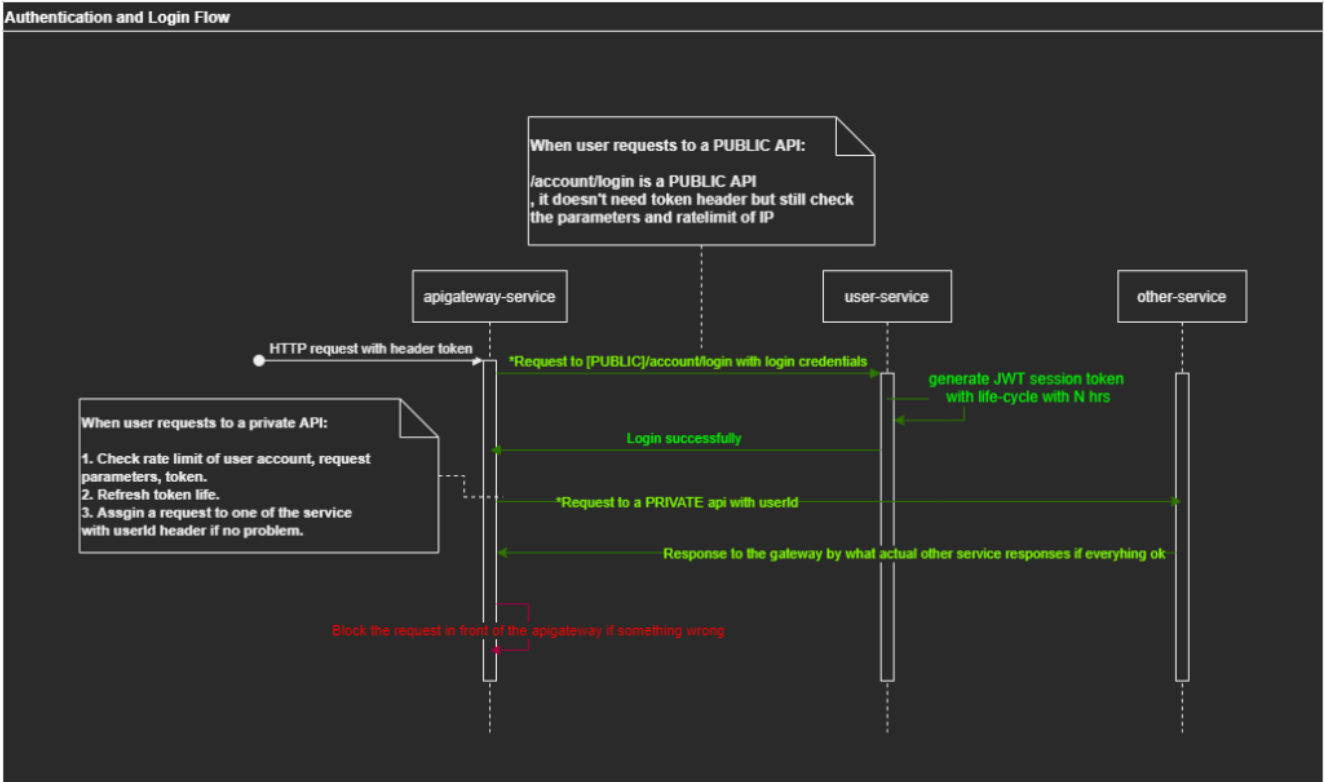
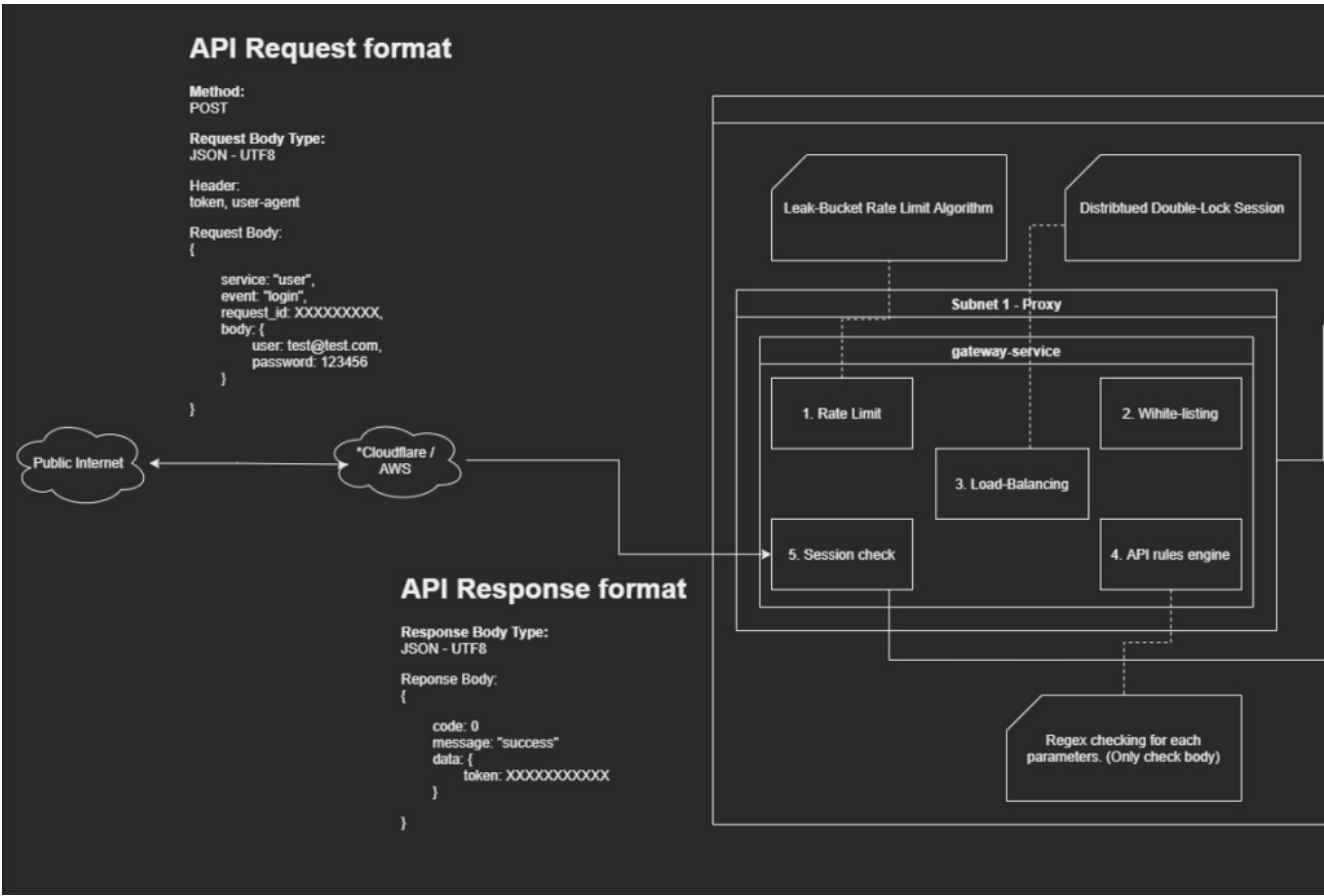


# API Gateway in NodeJS

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<https://github.com/life-is-curiosity/js-apigateway>

## Feature

- 1. **API Rules**
  - Parameter checking

Support regular-expression

## 2. **Distributed Load-Balancing Algorithms**

Random-Weighted Average Load-balancing algorithms to route the requests to different microservice endpoints.

## 3. **Asymmetric JWT Double-Lock Session**

Support private api, asymmetric key lock and basic session management

## 4. **Rate-Limit Components**

Able to customize the rate-limit for preventing the system loading

## 5. **Http API Proxy Gateway**

Http API redirect to other internal service endpoints

## 6. **Single Redis Instance**

Session or any persistence by Redis

# Environment Construction

npm install or yarn install

# Configuration

```
{
  "redis": {
    "host": "localhost",
    "port": 6379,
    "auth": "",
    "db": 0,
    "max_clients": 30,
    "tls": false
  },
  "rate_limit": {
    "interval_ms": "60000",
    "max_requests": "120"
  },
  "service_endpoints": {
    "timeout": 5000,
    "user": [
      {
        "hostname": "localhost",
        "port": 3001,
        "weight": 10
      },
      {
        "hostname": "localhost",
        "port": 3002,
        "weight": 2
      },
      {
        "hostname": "localhost",
        "port": 3003,
        "weight": 2
      },
      {
        "hostname": "localhost",
        "port": 3004,
        "weight": 4
      }
    ]
  },
  "session": {
    "algorithm": "RS256",
    "expire": 180
  }
}
```

# Execution

pm2 start pm2.json --env local > /dev/null