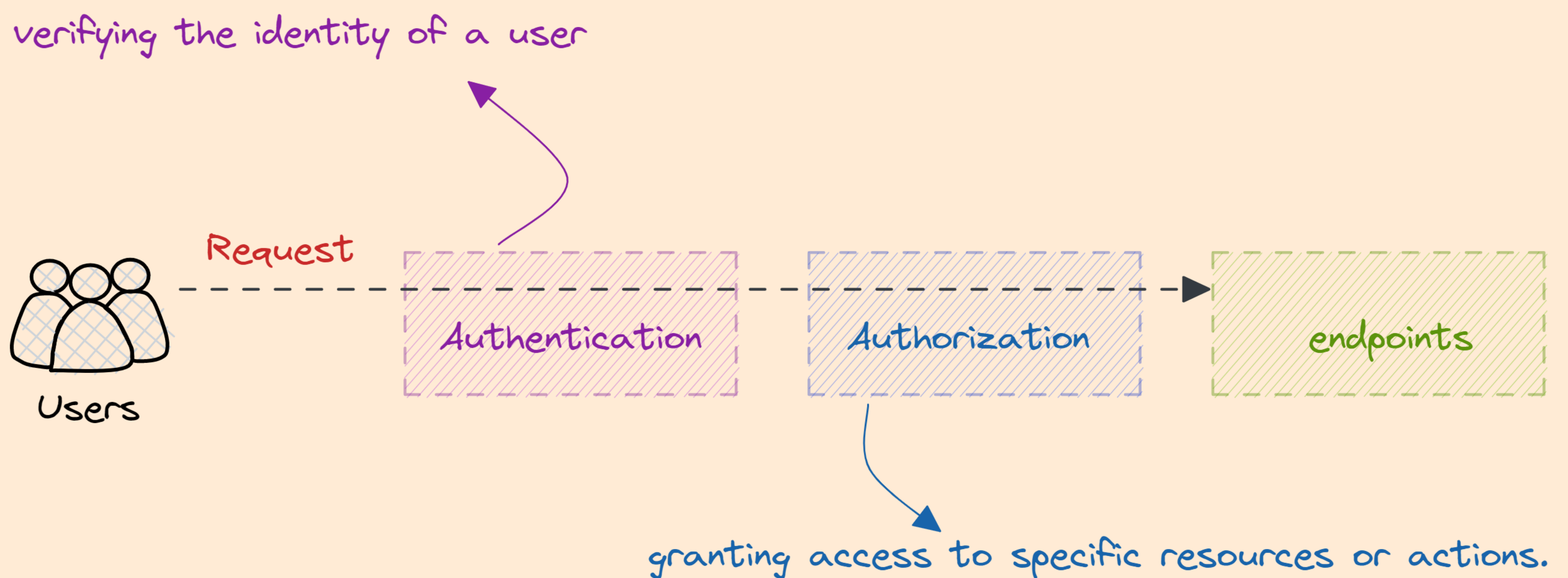


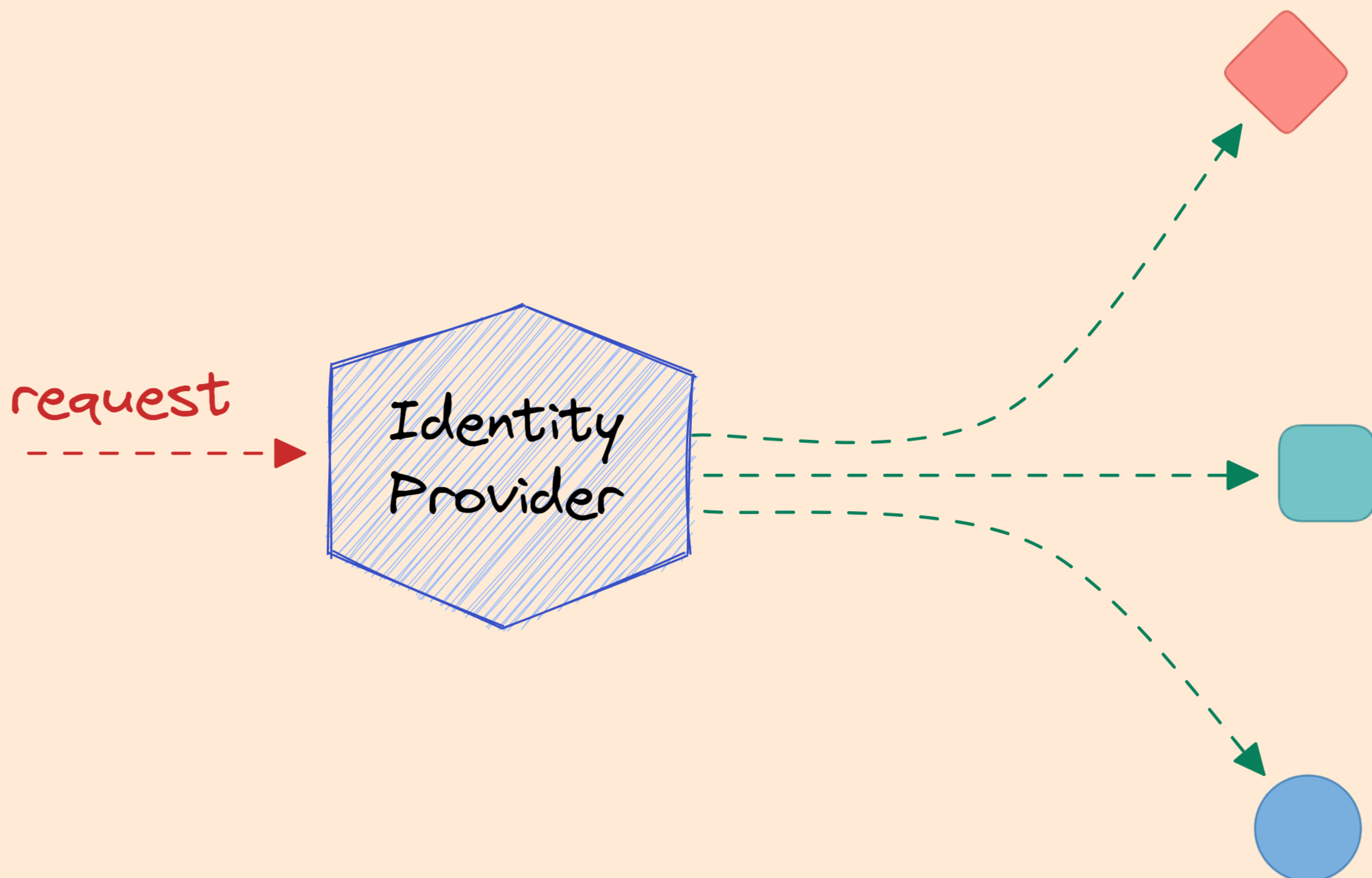
# Identity Provider Microservices

SWIPE →

**In **Microservices**, A user must authenticate and authorize to ensure secure access to services and resources.**



**an Identity Provider, It enables users to securely access microservices by providing a centralized authentication and authorization mechanism.**



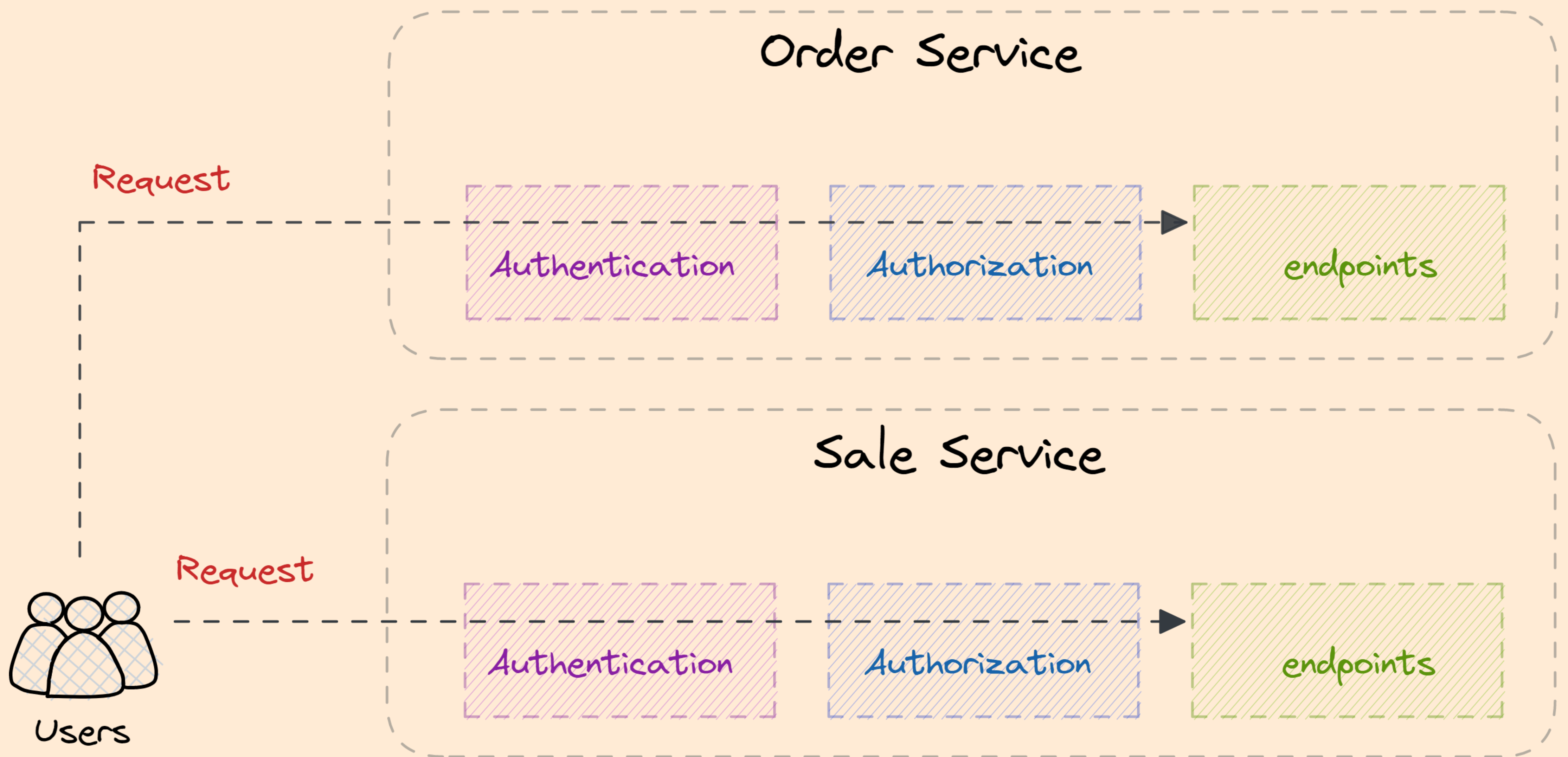
# Options

**We have some options for implementing Authentication and Authorization modules.**

- **Internal microservice**
- **External microservice**
- **Combined**
- **Identity Provider + Gateway**



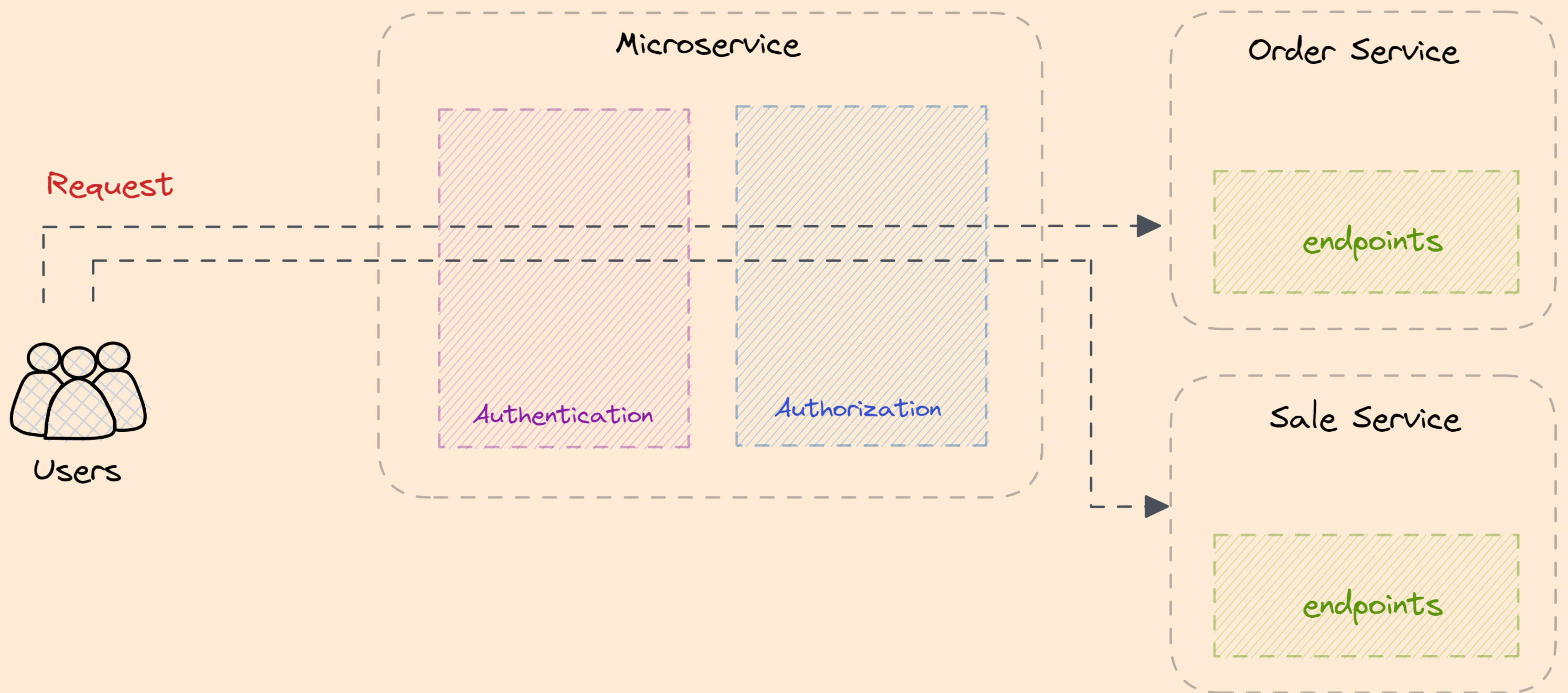
# Internal Microservice Approach



- ✓ **Self-reliance**
- ✓ **Provides precise control**
- x **More development effort**
- x **Increase microservices size**
- x **Duplicate code**



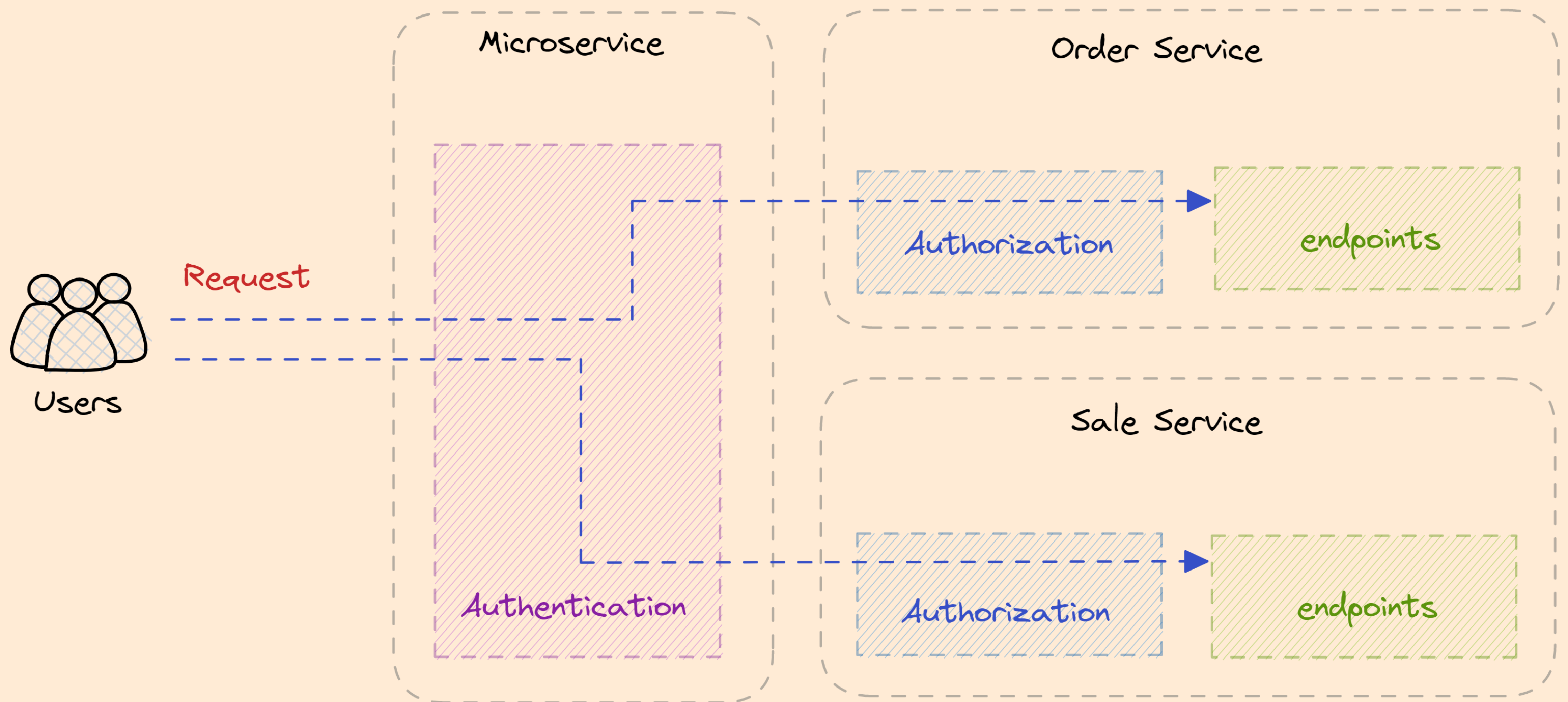
# External Microservice approach



- ✓ centralized handling
- ✓ enforce a uniform method
- ✓ smaller microservice
- ✓ less development effort
- x microservices vulnerability
- x less control after redirect request



# Combined approach



✓ **Reduces the overhead of authentication**

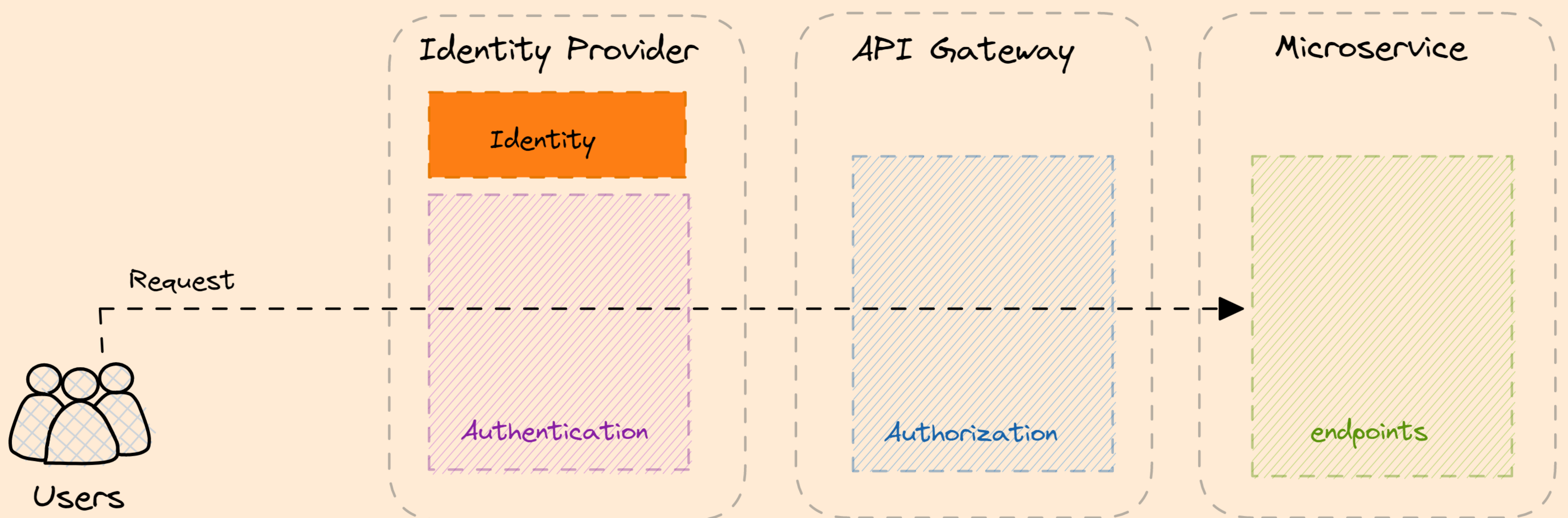
✓ **Gives control of authorization**

x **more development effort**

x **Increase microservices size**



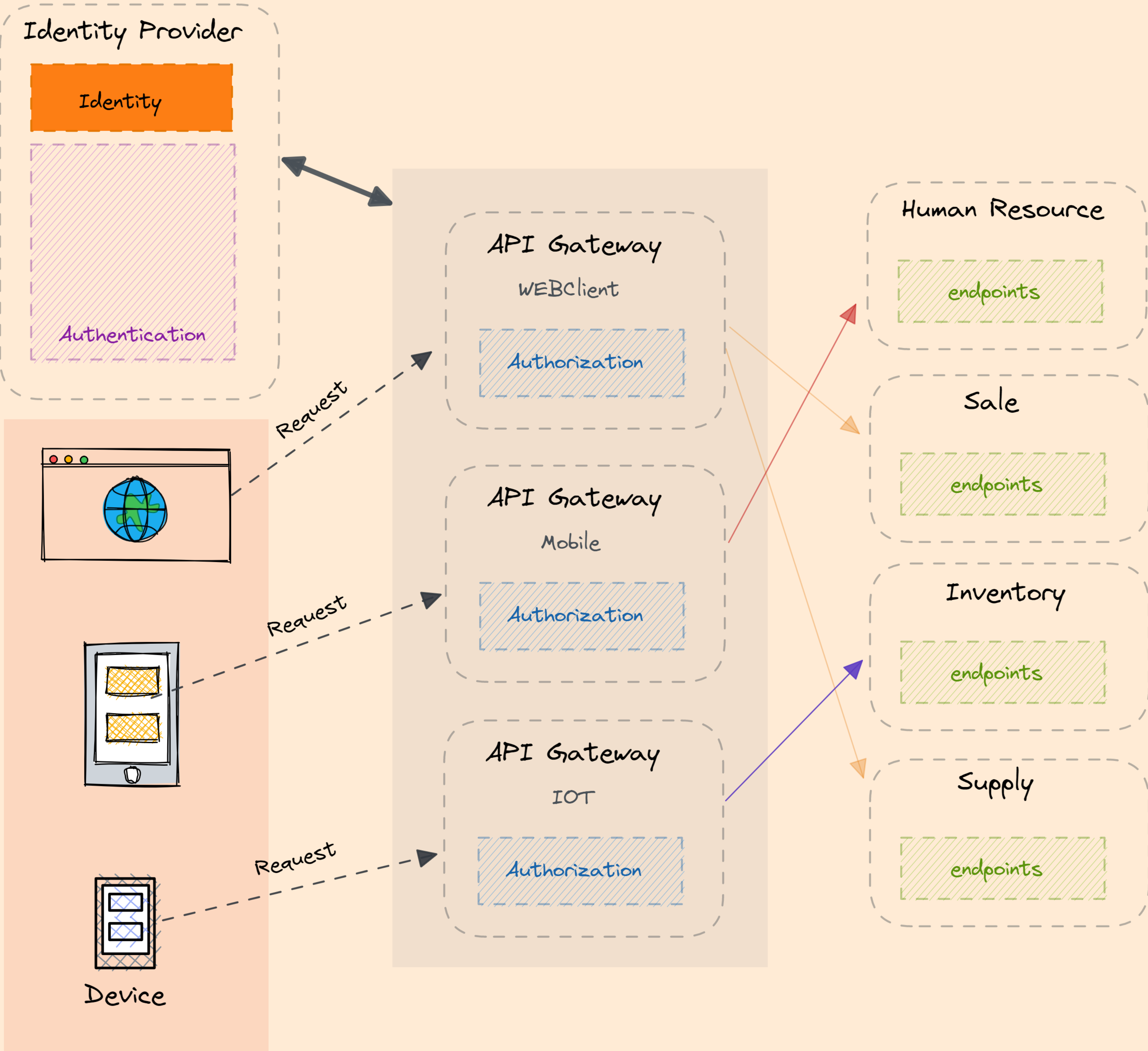
# Identity Provider + Gateway



- ✓ **Centralized Control**
- ✓ **Consistent Security Policies**
- ✓ **Scalability**
- ✓ **Improve Monitoring and Logging**
- x **Increased complexity**
- x **Potential performance issues**
- x **Dependency on external services**
- x **Single point of failure problem**



# Final Idea!



**Keep  
Learning**

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