

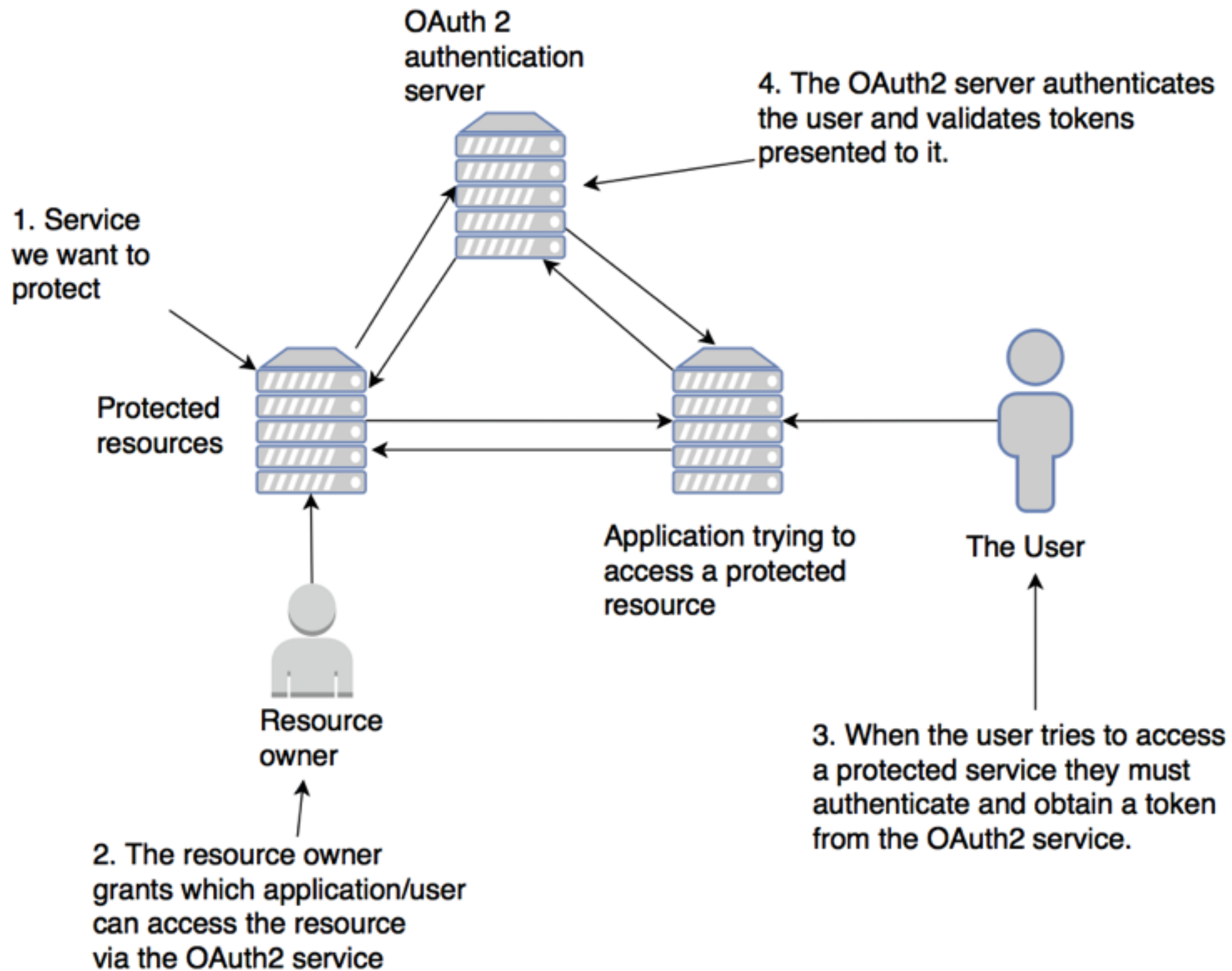
Securing Microservices

Chapter Content

- OAuth2 Intro

- A secure application involves multiple layers of protection
 - User Authentication and Authorization
 - Keep the infrastructure patched and up-to-date
 - Network access control so that a service is only accessible through well-defined ports and accessible to a small number of authorized servers

- We will use Spring Cloud Security and OAuth 2
- OAuth2 is a token-based security framework that allows a user to authenticate themselves with a third-party authentication service
- If the user successfully authenticates, they will be presented a token that must be sent with every request. The token can then be validated back to the authentication service.
- The main goal behind OAuth2 is that when multiple services are called to fulfill a user's request, the user can be authenticated by each service without having to present their credentials to each service processing their request



- OAuth2 allows you to protect your REST-based services across these different scenarios through different authentication schemes:
 - Password
 - Client credential
 - Authorization Code
 - Implicit