Spring Security

Beginner to Guru

Overview HTTP Basic Authentication

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- HTTP Basic Authentication is part of the HTTP Specification

  - Originally from RFC 2617, 1999, updated in RFC 7617 in 2015

- Basic Authentication provides a standard way for HTTP clients to submit user name and
  password

- **URL Encoding** - https://username:password@www.example.com

- **HTTP Header** - Key: Authorization, Value: Basic <Base64 encoded string>

  - String - username:password

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Criticisms of Basic Authentication

- URL Encoding and Header Encoding are not secure

  - Trivial task to revert Base64 encoded string back to text value

- To protect user credentials, use of HTTPS is recommended

- HTTP Basic Authentication also criticized for sending user credentials in every request

  - Increases risk of compromise

  - Other methods send an authentication token in each request

Spring Boot Spring Security Auto-Configuration

- When Spring Boot detects Spring Security on the classpath, it will auto-configure Spring Security

  for HTTP Basic Authentication

  - **Default User** - user

    - Set Property `spring.security.user.name` to override

  - **Default Password** - Random UUID, check console output

    - Set Property `spring.security.user.password` to override

- All paths secured - except actuator info and health