Spring Security bcrypt Password Variants



Spring Security Password Storage

- There are different algorithms/variants for bcrypt passwords:
 - Passwords starting with: \$2a\$, \$2b\$, \$2y\$, ...

Spring Security 5 only supports bcrypt passwords starting with \$2a\$

username	password	enabled
john	{bcrypt}\$2a\$04\$eFytJDGtjbThXa80FyOOBuFdK2IwjyWefYkMpiBEFlpBwDH.5PM0K	1
mary	{bcrypt}\$2a\$04\$eFytJDGtjbThXa80FyOOBuFdK2IwjyWefYkMpiBEFlpBwDH.5PM0K	1
susan	{bcrypt}\$2a\$04\$eFytJDGtjbThXa80FyOOBuFdK2IwjyWefYkMpiBEFlpBwDH.5PM0K	1
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Spring Security Password Storage

Currently, Spring Security 5 only supports bcrypt passwords starting with \$2a\$

Be sure to use \$2a\$

- If you use a different variant starting with \$2b\$, \$2y\$, ...
 - The login will FAIL and you will get this dreaded error message in server logs

WARNING: Encoded password does not look like BCrypt

Common pitfall



BCrypt Variants

• FAQ: What are all of the bcrypt variants?

• Here is a good discussion of the BCrypt variants: \$2a\$, \$2b\$, \$2y\$, ...

www.luv2code.com/bcrypt-variants

