

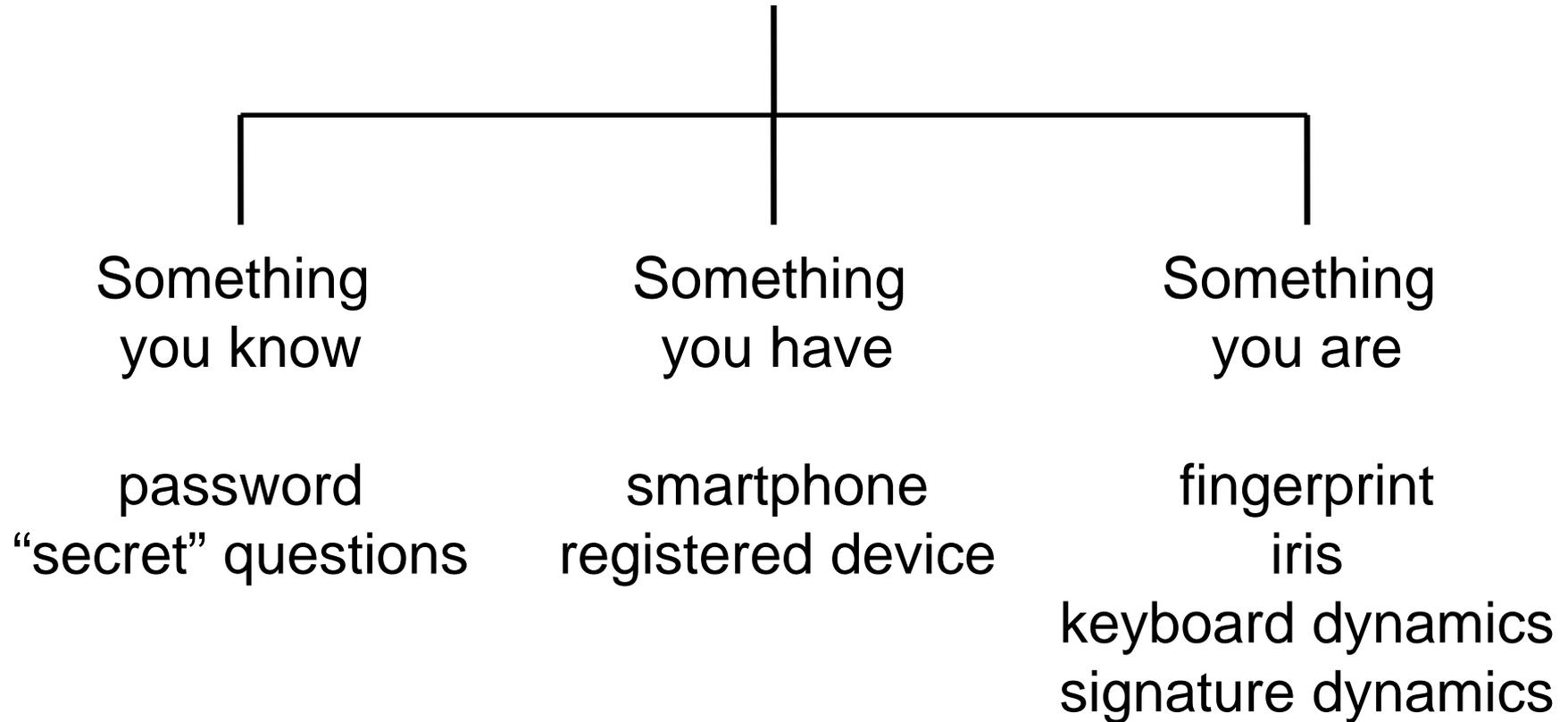
Authentication by Passwords: Introduction and Storage Techniques

Prof. Ravi Sandhu
Executive Director and Endowed Chair

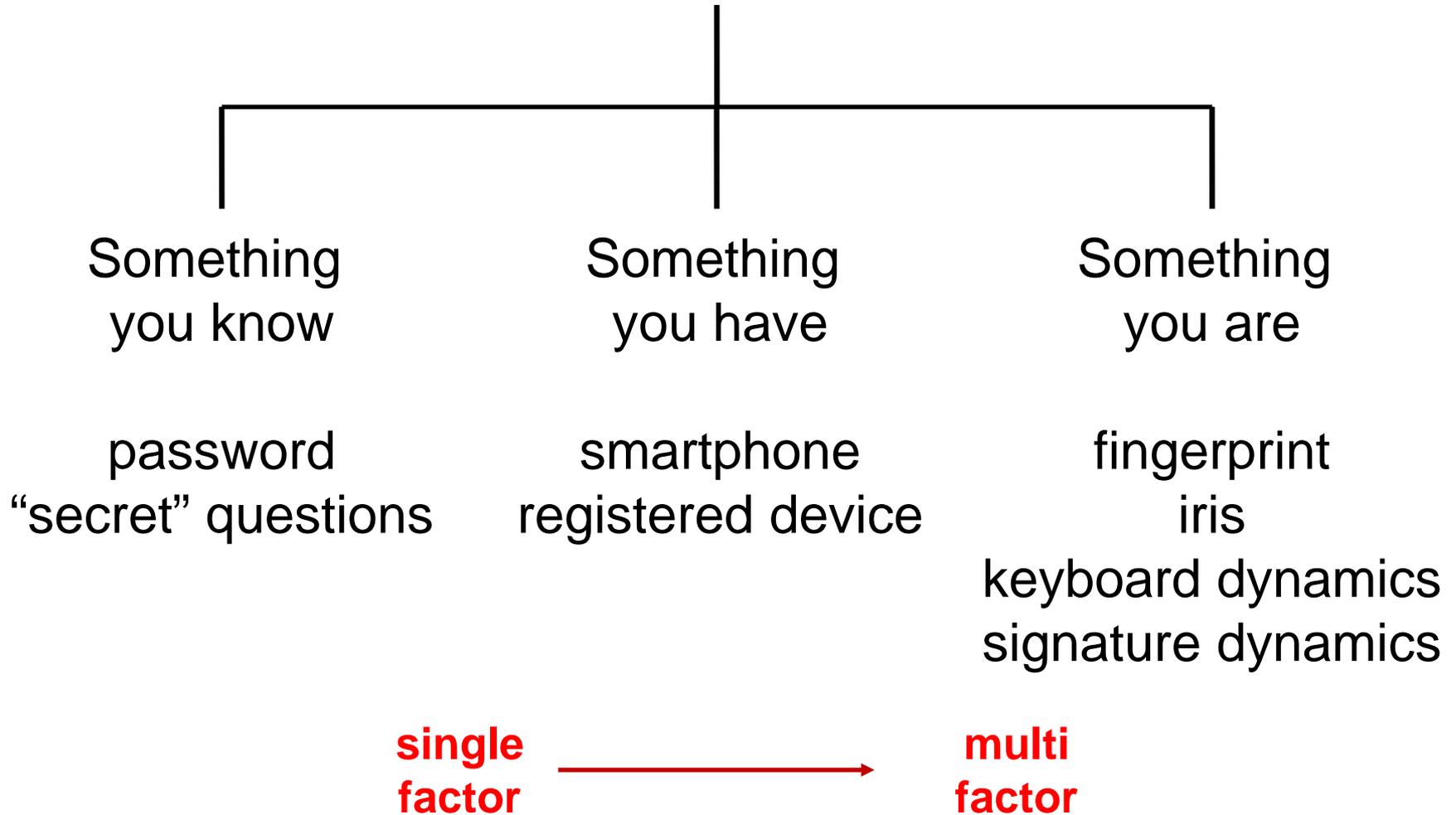
Lecture 12-1

ravi.utsa@gmail.com
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Authentication

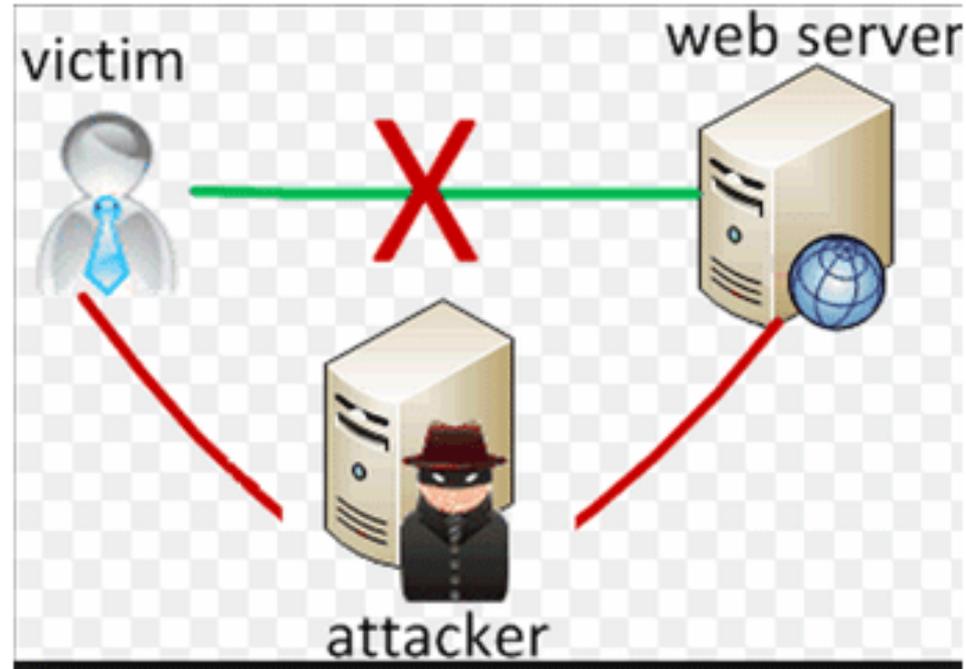


Authentication

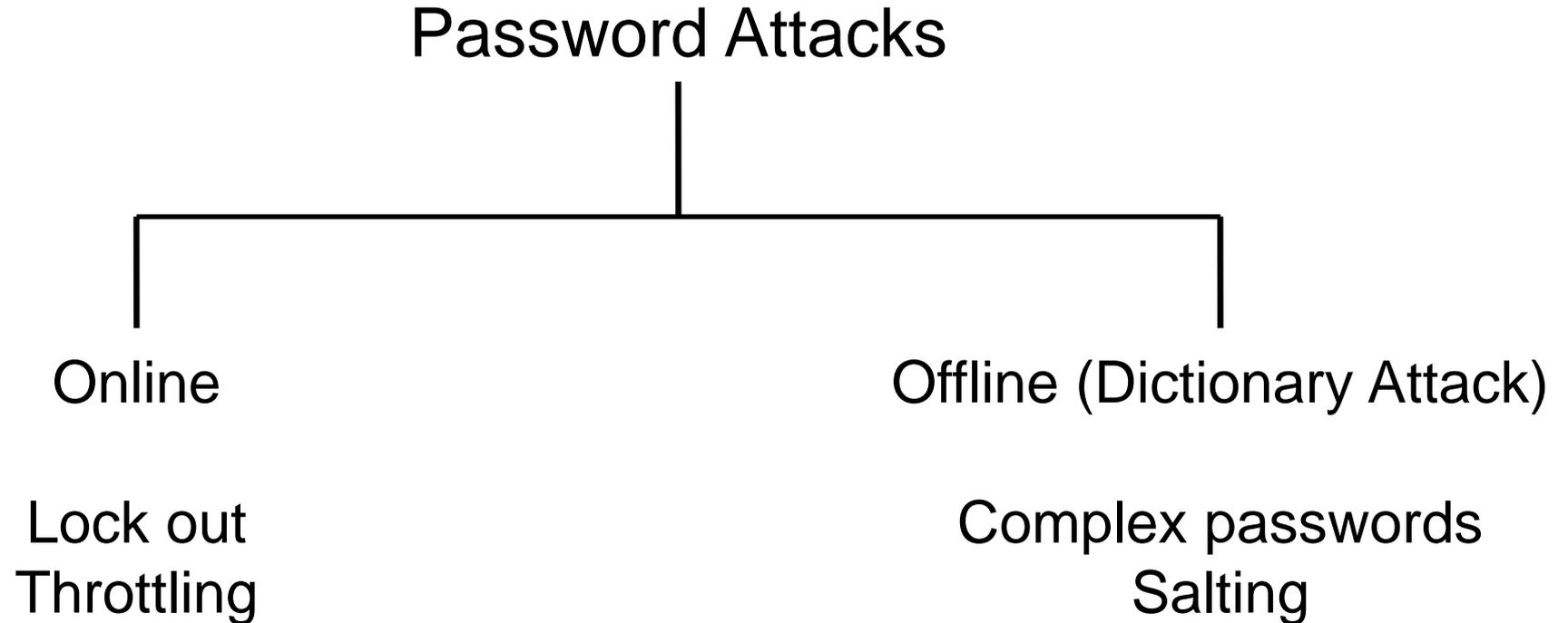




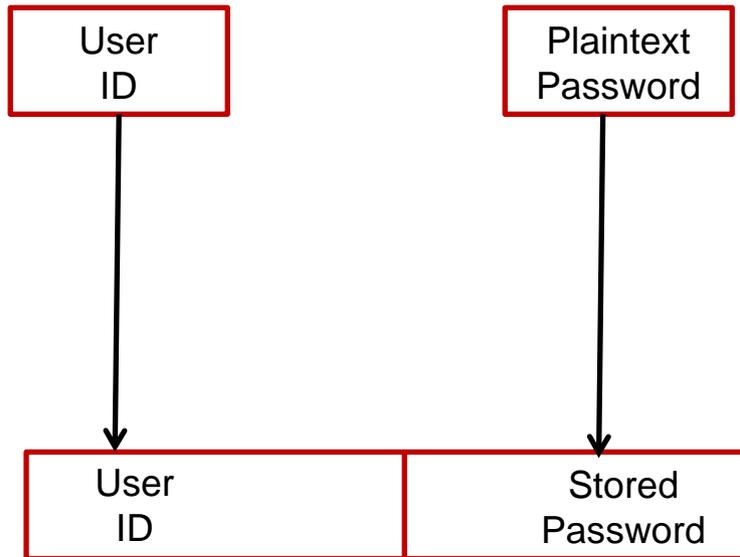
Personalized image to authenticate webserver to user



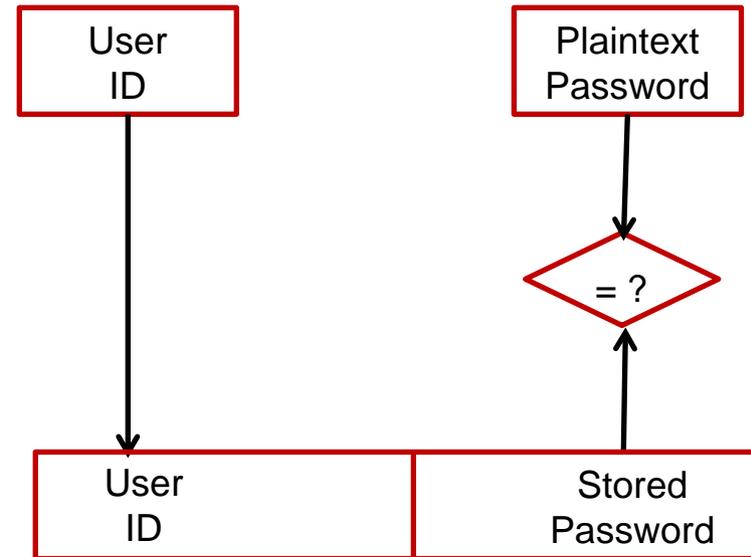
Personalized image passed through



Password Storage

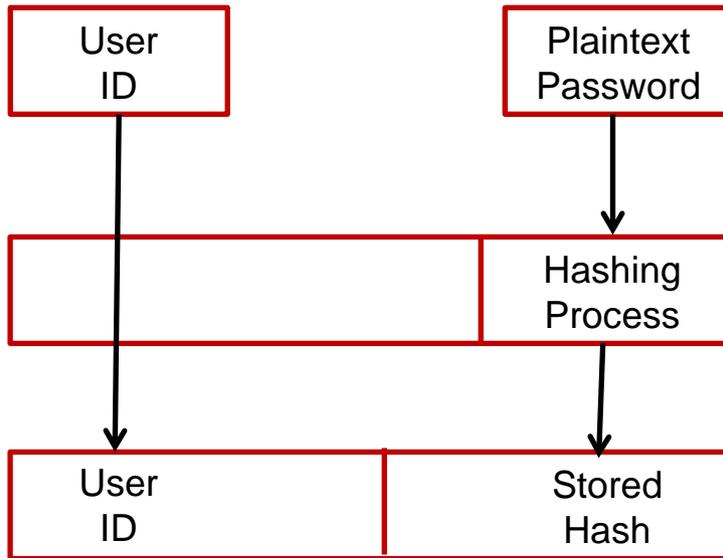


Password Verification



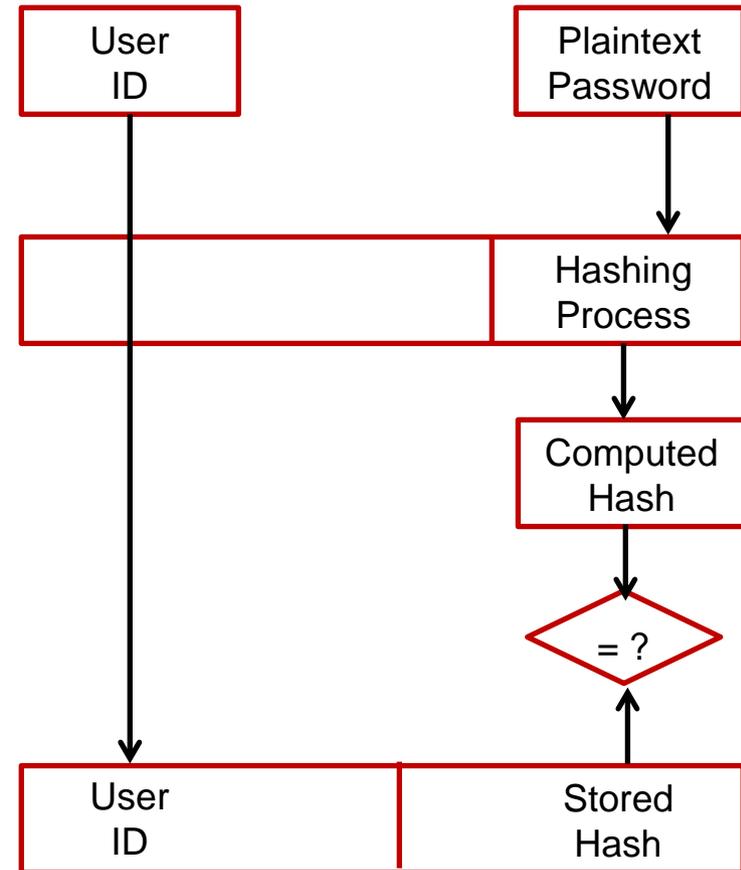
Loss of stored passwords =
Catastrophic failure

Password Storage

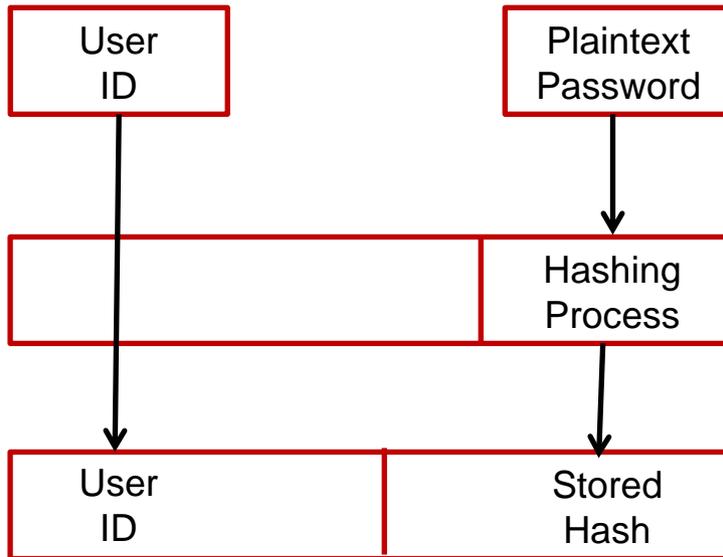


Loss of stored hashes =
Attack by single dictionary

Password Verification

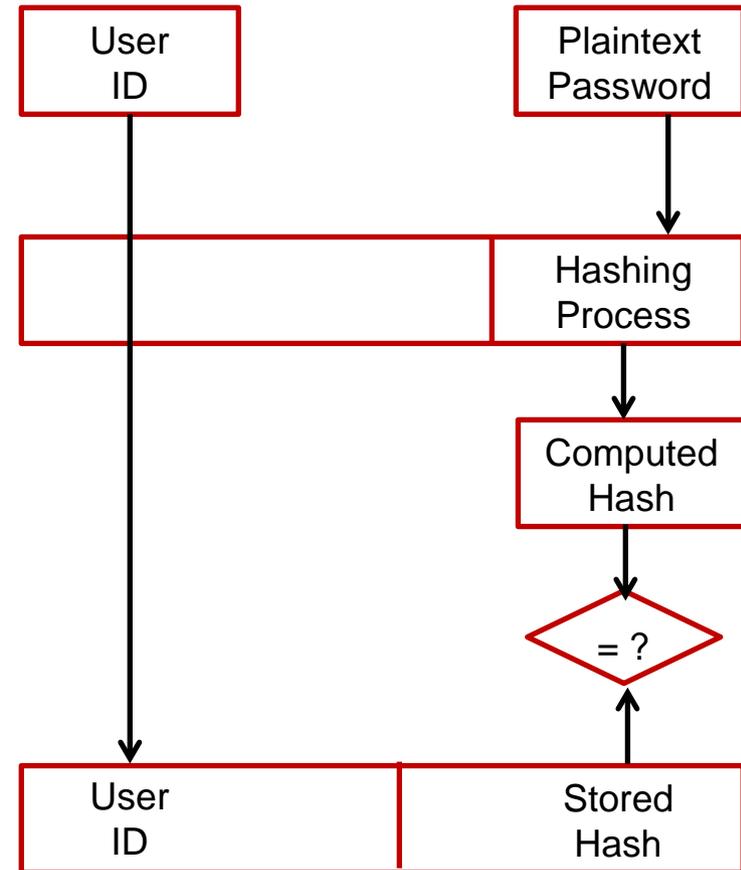


Password Storage

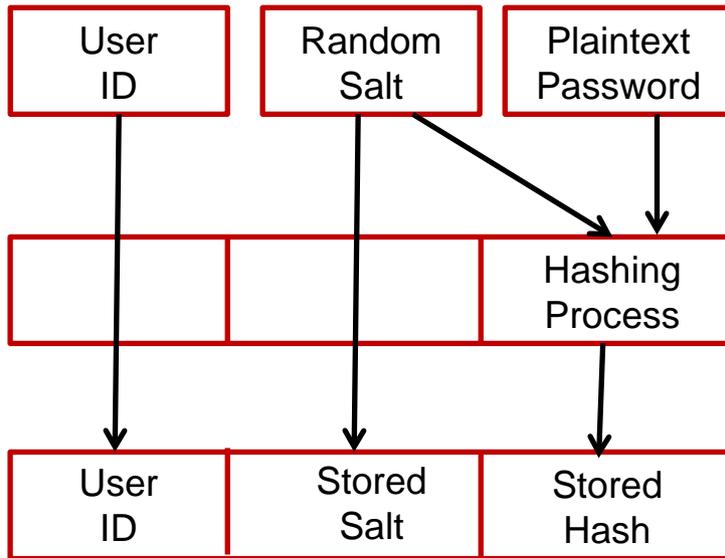


Loss of stored hashes =
Attack by single dictionary

Password Verification



Password Storage



Loss of stored hashes =
Attack by different dictionary
for each salt value

Password Verification

