User Authentication -binding or subject (external entity) to an internal / system entity (AKA "principal")

- 2 steps: -> subject presents a claim/identifier -> Assumes random passwords

-> Subject must present corroborating-Password Storage evidence te prove you are you.

Complementation Information - all the info we submit during signup or registration.

- processed to complementation information by computer

Password Based Authentreatron PROS

-old, widely used

- No special sw

- No spead Hw - Easy leplace/server - Weak passwords

- Passwords must be

- easy to share pw's

- reusing passwords

- Social Engineering

(- Keyloggers + nn

1-system Design

-Password Scheetron La people choose bas passwords Executor points towards -> use generated pronounable words (random Phonemes) -> Use conger Pw's (no restrict.)

- Vse Passphrase 6 "my first name.

- Anderson's Theoretical PW Strength formu.

-> P= probability of success

-> 6 = gresses in 1 unit time

-> T= number of time Units

-> N=number of possible pu's

-> How do we check folks passwords with known ones, but keep all the tompet passwords safe in case of attack

-> hash passwords!

La leads to dictronary Attacks

-> Prevent / hinder attacks

La increase necded efforts

Lash + Salt regreate

La root only can access pwis

La Block access 11-possible

-> IT constantly runs irracker.

La bock out accounts that are

-> stop bad password selection

La Bloom filter: tell if PiEP

Los May Provide Galse postitues

- Prossword (Manglers / Managers) La ringle Point of failure