

IAAA

Identification

Authentication

Authorization

Accountability

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- **Identification**

- Your name, username, ID number, employee number, SSN etc.
- “I am khurram”.

- **Authentication**

- “Prove you are khurram”. – Should **always** be done with multi-factor authentication!
- **Something you know - Type 1** Authentication (passwords, pass phrase, PIN etc.).
- **Something you have - Type 2** Authentication (ID, passport, smart card, token, cookie on PC etc.).
- **Something you are - Type 3** Authentication (and Biometrics) (Fingerprint, iris scan, facial geometry etc.).
- **Somewhere you are - Type 4** Authentication (IP/MAC Address).
- **Something you do - Type 5** Authentication (Signature, pattern unlock).

○ Authorization

- What are you allowed to access – We use Access Control models,
- what and how we implement depends on the organization and what our security goals are.
- More on this in Domain 5 - Identity and Access Management (DAC, MAC, RBAC, RUBAC)

○ Accountability (also often referred to as Auditing)

- Trace an Action to a Subject's Identity:
- Prove who/what a given action was performed by (non-repudiation).

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Thank you