**Module 1: The Basics**

* 1. **CIA Black White Grey Hats EH**

**Box Testing**

1. Black Box testing – simulate real attacker
2. White box – user/insider level
3. Gray Box – combine white & black

**Identity & Access Management (IAM)**

1. Right access for right people
   1. Authentication
   2. Authorization
   3. User management
   4. Central user repository

**CIA Triad**

1. Confidentiality
2. Integrity – info not altered
3. Availability – people who need info can access

**Authentication/Non-repudiation**

1. Authentication
   1. Sth you are – biometrics
   2. Sth you have – badge
   3. Sth you know – pwd
2. Non-repudiation – I can prove you did it

**Physical Security**

1. Plans, steps & procedures to protect assets
2. Physical measures – touch, taste
3. Technical measures – smartcards
4. Operational measures – policies

**AI & Cyber Security**

1. AI can look at behavioural indicators and flag fishy traffic to ease analyst’s workload