William Prado 05/08/2025 YTB-IBM Clark Identity + Access management (IAM) Identify (Chairy) Avthentication (prove claim Authorization (rights + priviledges) Accounting (logging, Auditing) Admin Spra / De prov A vthn- wooz Jan A vthz-allowed Jan Arthenticates Client + Network Access Network Acess Control 802 1x - Post Base Aces Control Switch & Acess Point EAP-Extrended Authentication Protocol & API -PKt+certificate Av Menticator DBASE

Rerberos tickets
- Radius / TAC ACTS

DBASE

DBASE Epolicies LDAP port 389 unsecure, LDAP port 636 secure

William Prado Shart william 05/08/2025 Av thorization + Access Control. DAC · OWNER of a resource buides how it is shared. · cach resource has an owner (the creator). I who YTB - Discretionary Access Control.

DAC owner of a resource decides how it can shave. Role Based Access Control (RBAC)
[VSET] -> [Role] -> [Rights] Enterprise setting access may be based on Job role. role: sets of rights permissions. RBAC = Access based on the role you have

DAC = Access based on ownership Difference by RBAC Privileged Access Management (PAM) checks & solming Control elevated access prevent privileged account alouse Introducing Privileges Access Management in effice 365

Approval group admin

Zero Standing KEESS YTB -

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What is privilege Escalation? heast privilege - granting just enough rights to perform their job t no more. Separation of Duties - establish Checks & balances against possibility that critical systems or procedures can be compressised by jusider threats. Devide tacks prevent ethical conflicts or abouse of power. 2 ero Frust - why Implement Zero Grust - Assume Breach - Verify - Trust - least privilege (MAIVI) MAIV of Mable 10.3 Periareter- Foers vs. Defense in Depth ferimeter security Sefense in Depth of the security

Net work security

Physical security

Physical security

Physical security

Physical security Review Port # ... Access Contro List ... Filters Firewall ... Filter

William Prado 05/08/2025 RADON T VIOIDING 10.4 Perimeter Sec. vs Endpoint Sec. -Disable unneeded switchports - Configure protection mechanisms - MAC Filtering - Dynamic ARP Inspection - DHCP Snooping -Neighbor Discovery (ND) Inspection + Router Advertisement (RA) Grand. - Port Security ( IEEE 802.1X Port Based Notwork Kucks Control) Authentication Devices I wire wore 1995 y must authenticate before being allowed access to guitch port I post being turned on. VLAN & PVLAN Best Practices. VLAN-recap Private VLAN (NVLAN) Promiscious port Isolated ports Community ports. Defaut VLAN = ID1 Notive VLAN untagged traffic. Network ACCESS CONTROL (NAC) system to authenticate/anthorize Switch-connats/mys communication on a vetwork. EWitch ports bedicated interface on a switch that connects devices. Port Security > Secure physical dass > hearly update svisco firmware > Disable runneeded ports > Configure MAC filtering> Enable havter Advertisement Grand (RA) > Configure DHCP Snooping Simple ment 802.1x authentication (EAP).

collien Inda William Franco 130/60 05/08/2025 ACL permit or beny heview ports tirewall - Filter 19 Hard Clark Co Stateless vs. StateFull JAN MV X UTM VS NGFW HWD V SFTW Froxy Server us NAT "Application" Rose Access control: only authorized users & devices can access resources (physical + digital measures). Defense in depth: layers of security (policies of mechanisms) safeguard data integrity, confidentia-lity, and vailability. for network security & performance. Content Filt exing: Fine-true traffic w/ rikes based on protocols, addresses, content, and more. 9.2.5 Note: tcp.flags. syn = = 1

flag: 0x002

terminal: hping 3 142. [68. 10. 19

4.2.6 tcp.flags. syn == 1 and tcp.flags. ack == 0 Lab: lap: 9.2.6