



# Network Access Control

THREAT MANAGEMENT

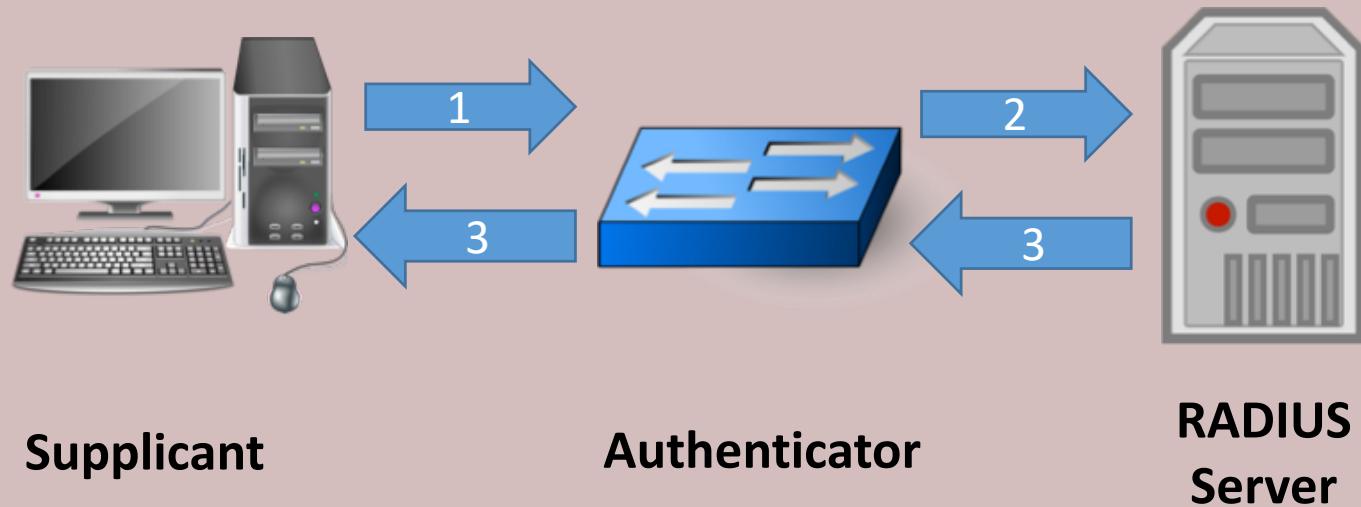
# Network Access Control (NAC)

- Limits network access to only authorized individuals and systems
- Ensures the systems connecting to the network meet basic security requirements



# 802.1x

- 802.1x protocol is most common standard utilized for NAC
- Works for wired and wireless networks



# Agent-based and Agentless

- Agent-based
  - Requires the device requesting access to have special software to communicate with NAC service (such as 802.1x)
- Agentless
  - NAC authentication is conducted in a web browser and doesn't need special software (such as Wireless at a hotel)



# In-Band and Out-of-Band

- In-Band
  - Uses dedicated appliances placed between the devices and the services they are requesting
    - Example: Hotel networks that require you to enter your name and room number before gaining access
- Out-of-Band
  - Relies on existing network and has device communicate to authentication servers (like 802.1x)



# NAC Approval Criteria

- Time of Day
- Role of the user
  - Admins can access datacenter only when inside datacenter
- Location of the user
  - User must be in datacenter to access
- System health status
  - Anti-virus up to date, security patches installed, host firewall enabled, etc.

