

# *Computer Hacking and Intrusion Detection*



Alan S H Lam

Networking Technology Exchange Center (NTEC),  
Information Engineering Department,  
CUHK

# *OUTLINES*



## Computer Hacking

- Two real cases
- Man-in-the Middle Attack

## Intrusion Detection

- System and Network Monitoring
- Network Intrusion Detection System (NIDS)

# *Computer Hacking*



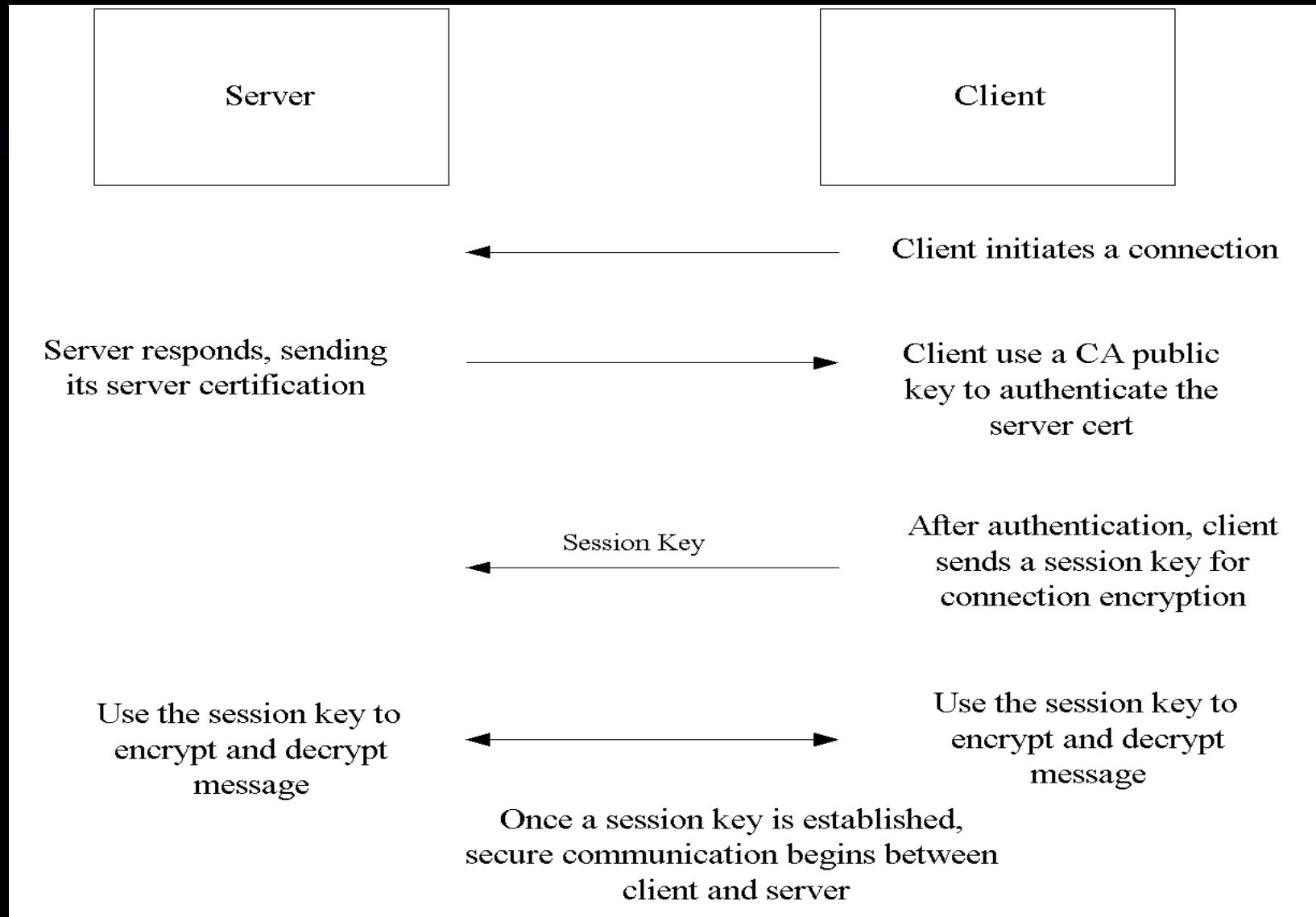
## Two real cases

- [AMD Hacking \(Jan 2000\)](#)
- [BIND 8.2 NXT bug hacking \(Feb 2000\)](#)

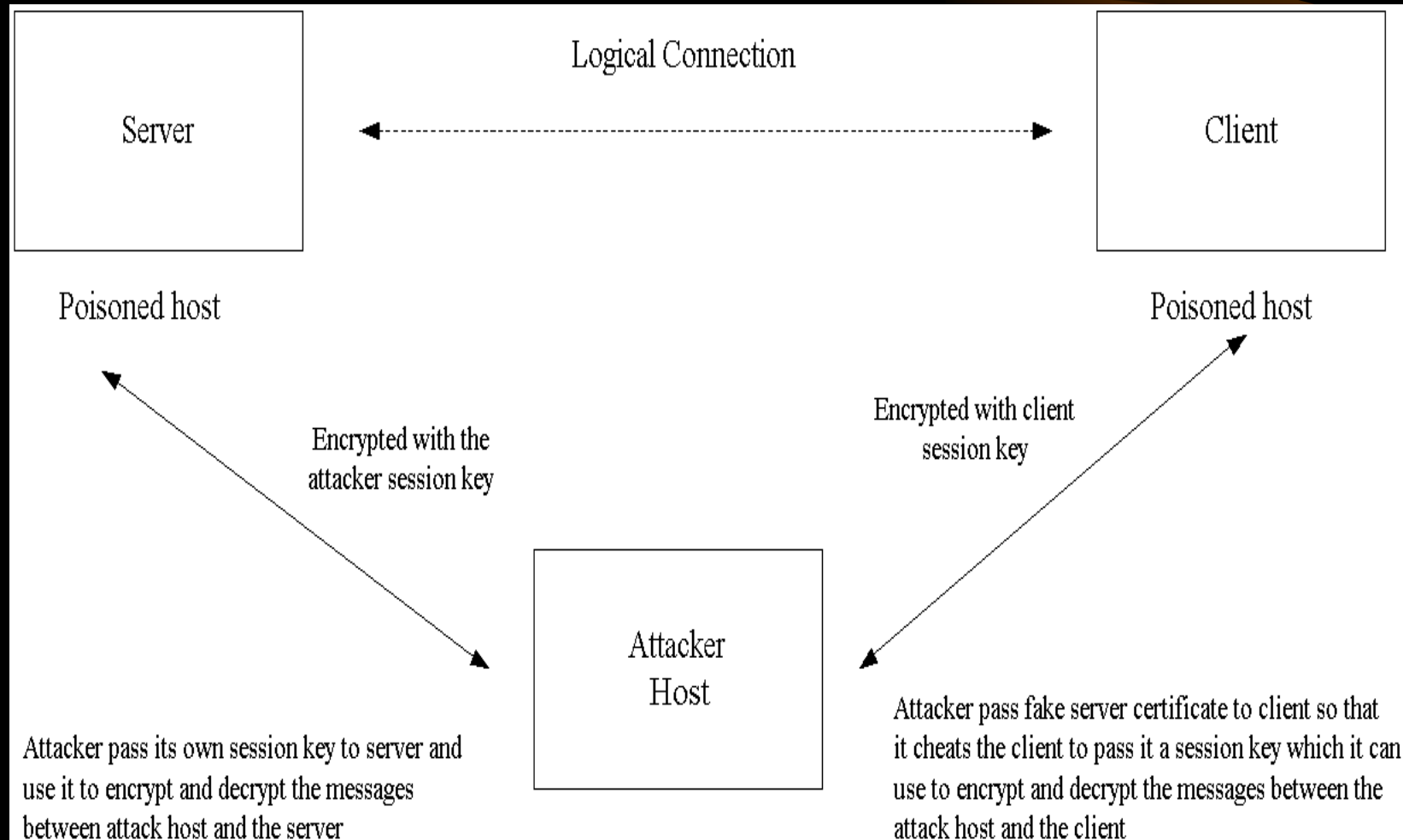
## Man-in-the Middle Attack

- ARP Poisoning
- Sniffing SSH and HTTPS sessions

# *Connections are protected by session keys*



# *Man-in-the-Middle Attack*



# *Intrusion Detection*

## System and Network Monitoring

- Traffic Monitoring and Analysis
- Real Case: DDoS attack (Nov 2000)

## Intrusion Detection System (IDS)

- Host base and Network base
- Real Case: Code Red and Nimda worm attack (Aug/Sept 2001)