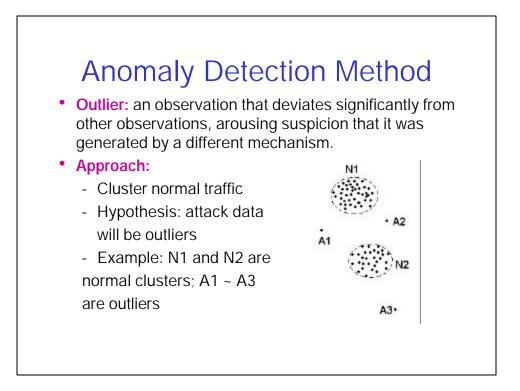
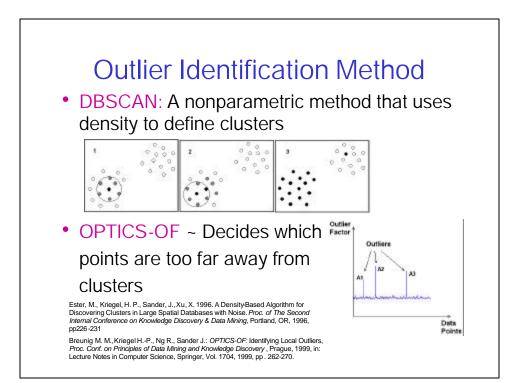
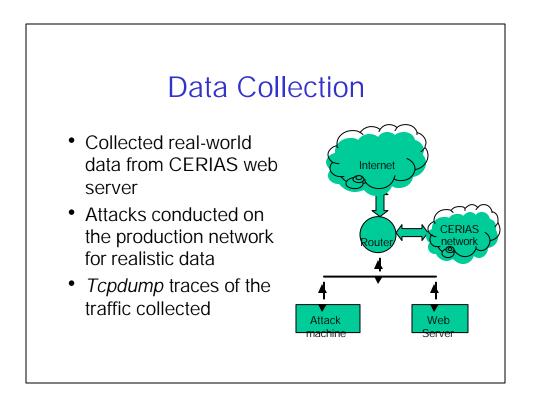


## **Goal: Automatic Detection**

- Problem:
  - No reliable DoS detection mechanism
- Current methods:
  - · Limited signature based detection
  - Manual scanning of huge logs looking for a needle in a haystack
- Proposed method: Anomaly detection deviations from normal patterns might potentially signal DoS







## **Traffic Features Collected**

- Mean and standard deviation of the inter-arrival time over various window sizes
- IP features
  - source IP address
  - destination IP address
  - protocol
  - fragmentation offset
  - checksum

## Higher layer features

- ports
- TCP flags
- proportion of protocols in traffic

