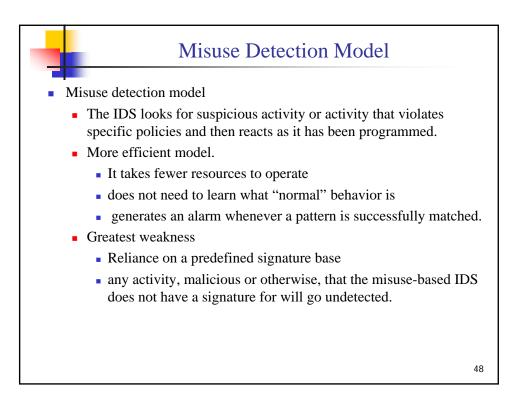
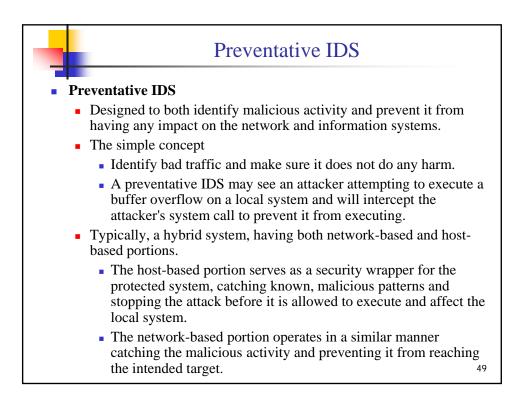


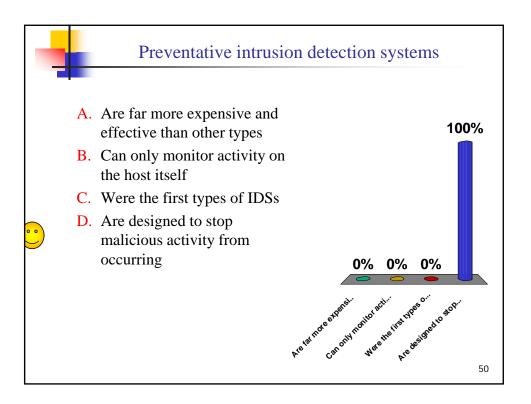


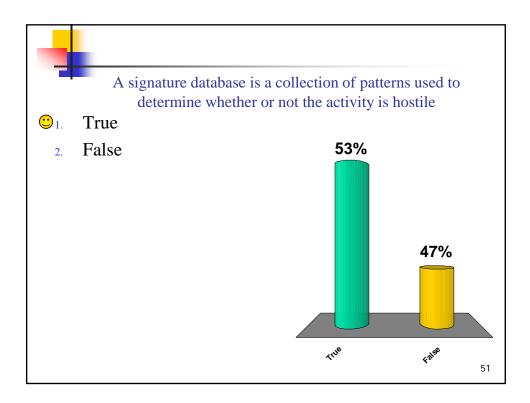
Anomaly detection was developed to make the system capable of dealing with variations in traffic and better able to determine which activity patterns were malicious.

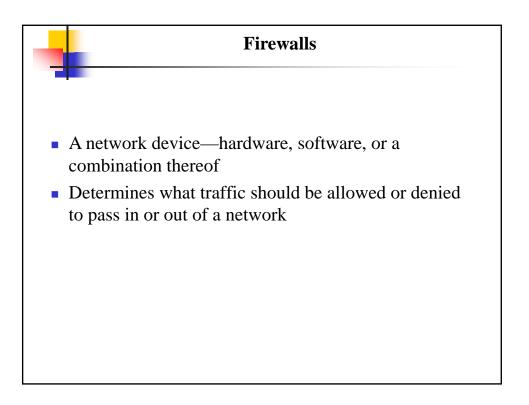
- IDS must be flexible and capable enough to account for things such as new systems, new users, and movement of information resources
- A perfect anomaly-based system ignores patterns from legitimate hosts and users but still identify those patterns as suspicious should they come from a potential attacker.
- Most anomaly-based systems suffer from high false positives, especially during the "break-in" period while it is learning the network.
- An anomaly-based system is not restricted to a specific signature set and is far more likely to identify a new exploit or attack tool that would go unnoticed by a traditional IDS.

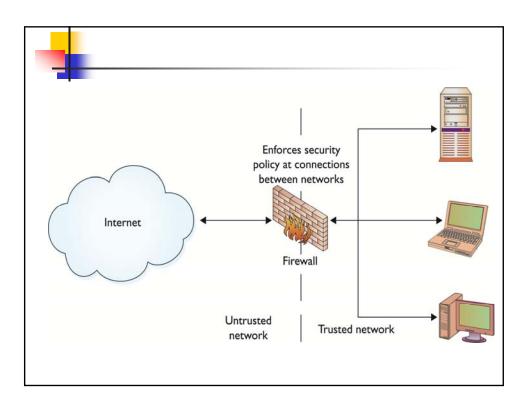


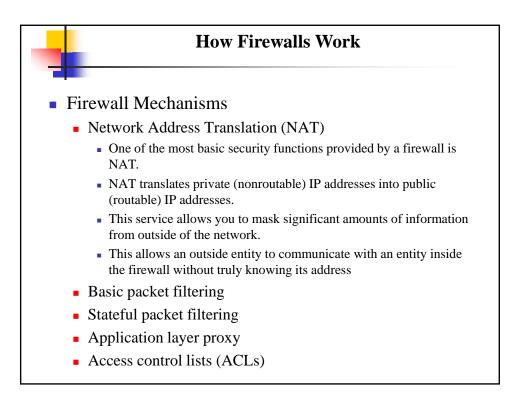


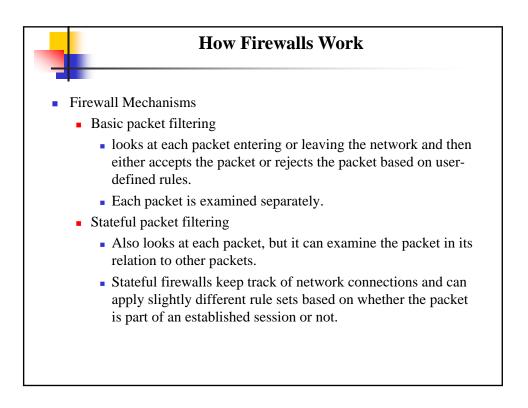


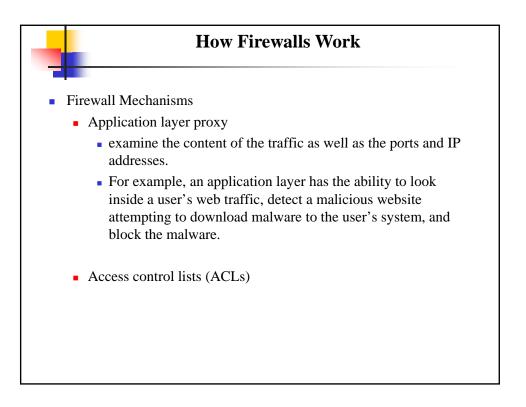


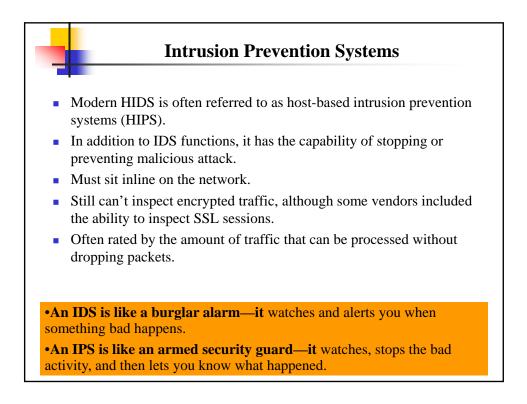


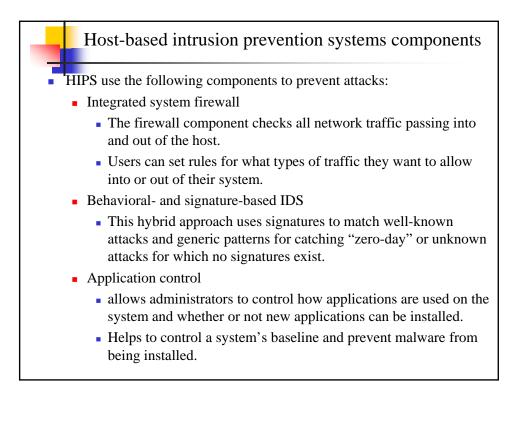


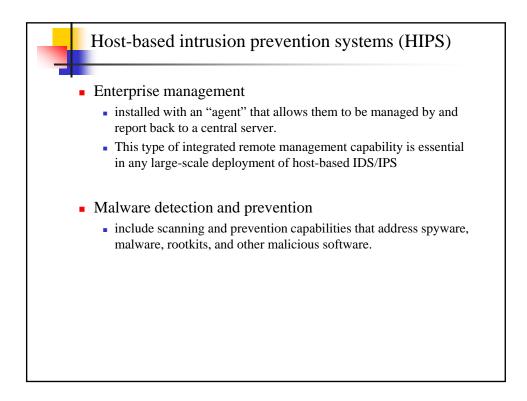


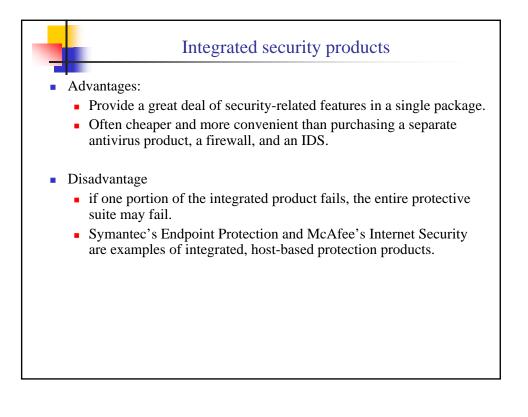


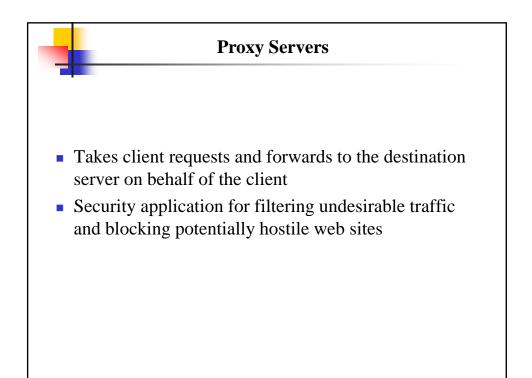


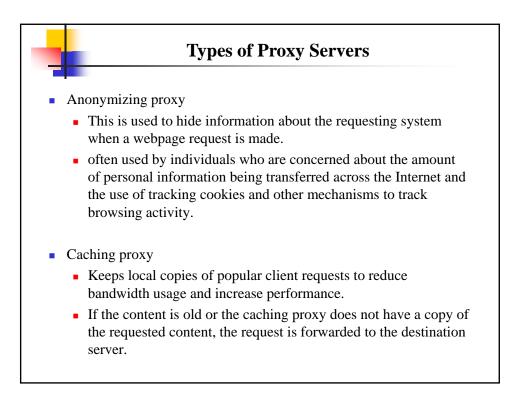


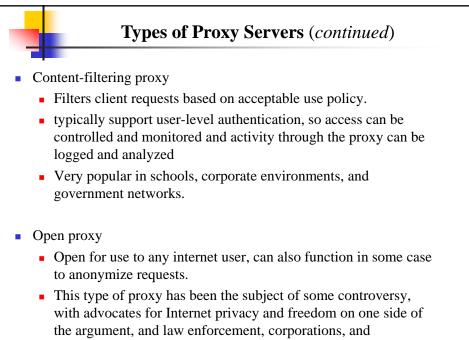




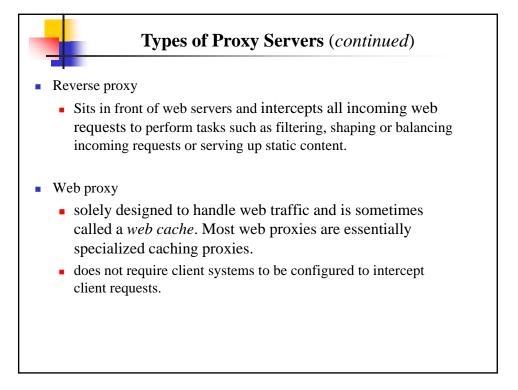


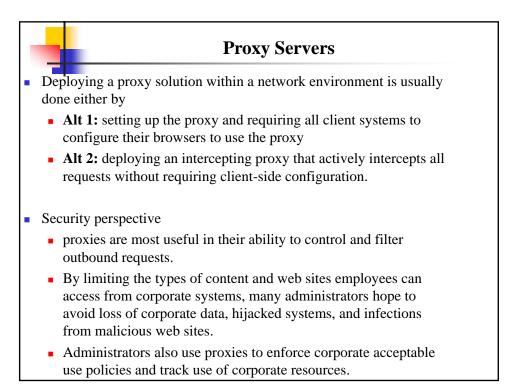


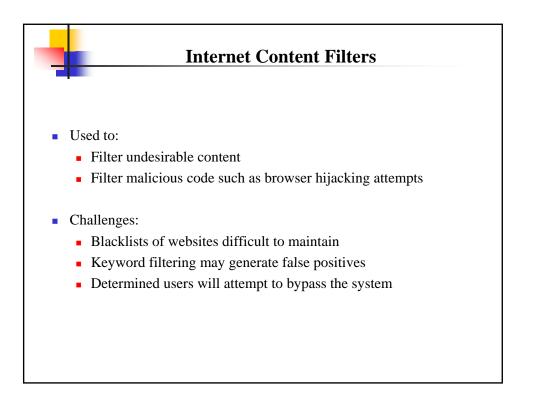


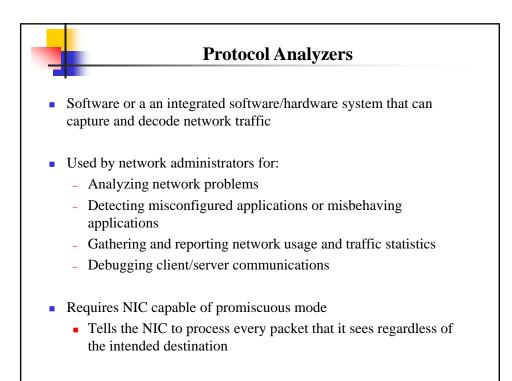


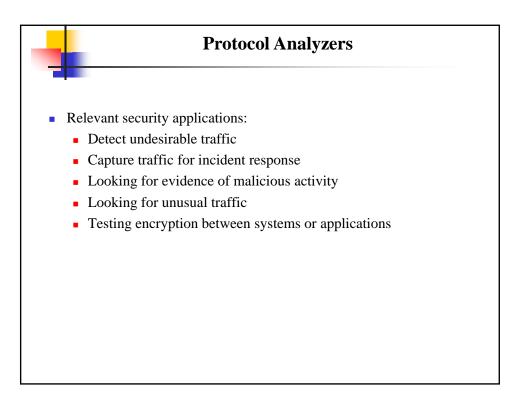
government entities on the other side.

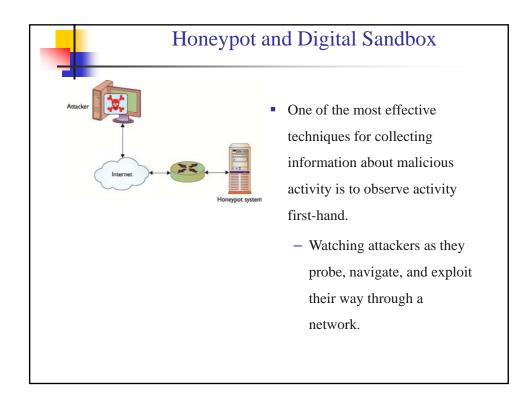












Honeypot and Digital Sandbox
<ul> <li>Honeypot</li> </ul>
<ul> <li>An artificial environment where attackers can be contained and observed without putting real systems at risk</li> </ul>
<ul> <li>system or group of systems designed to attract an attacker's attention.</li> </ul>
<ul> <li>Gives the appearance of a real network, application servers, users systems, and network traffic.</li> </ul>
<ul> <li>In most cases, it is made up of one or a few systems running specialized software to simulate the user and network traffic common to most targeted networks.</li> </ul>
<ul> <li>Appear to be running versions of applications that are known to be vulnerable to specific exploits.</li> </ul>
<ul> <li>Allows the attackers methods to be observed without putting real systems at risk</li> </ul>
<ul> <li>Activity recorded for later analysis</li> </ul>
<ul> <li>Afford information and additional security but require significant cost and effort to maintain</li> </ul>
A honeynet is a group of honeypots

