ENDPOINT PROTECTION

GV: Thạc Sĩ - Nguyễn Duy

Email: duyn@uit.edu.vn

Nội dung

- Endpoint Protection là gì?
- Tại sao lại sử dụng Endpoint Protection?
- Cơ chế hoạt động của Endpoint Protection?
- Công nghệ Endpoint Protection của IP-Guard?
- Tính năng của IP-Guard
- Triển khai IP-Guard

Nội dung

- Endpoint Protection là gì?
- Tại sao lại sử dụng Endpoint Security?
- Cơ chế hoạt động của Endpoint Security?
- Công nghệ Endpoint Security của IP-Guard?
- Tính năng của IP-Guard
- Triển khai IP-Guard

Endpoint Security là gì

- Endpoint Protection là giải pháp quản lý/quản trị đầu cuối (User và Computer)
- Endpoint Protection cho phép:
 - · Quản lý thông tin phần cứng máy tính
 - Quản lý ứng dụng trên máy tính người dùng
 - Quản lý việc truy cập internet của người dùng
 - Quản lý các device (USB, Bluetooth, CD-ROM,...)

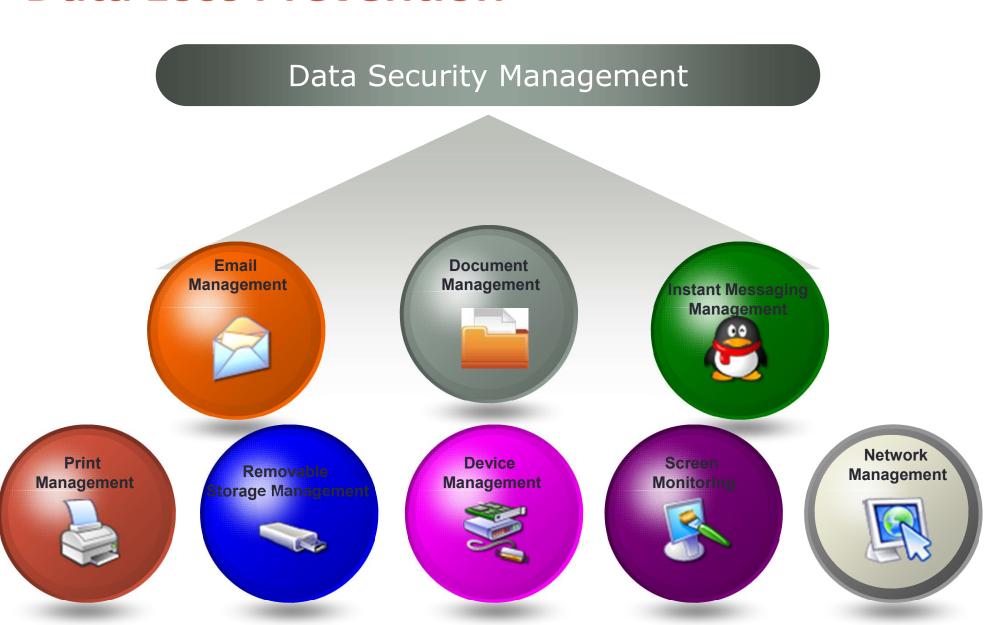
Nội dung

- Endpoint Security là gì?
- Tại sao lại sử dụng Endpoint Security?
- Cơ chế hoạt động của Endpoint Security?
- Công nghệ Endpoint Security của IP-Guard?
- Tính năng của IP-Guard
- Triển khai IP-Guard

Tại sao sử dụng Endpoint Security

- Quản lý bảo mật trực tiếp ở mức đầu cuối
 - Hardware
 - Device
 - Application
 - User
- · Giảm lưu lượng gói tin không hợp lệ đi trong mạng
- Chi phí rẻ và linh động trong việc thay đổi công nghệ

Data Loss Prevention



Data Loss Prevention



Phân loại dự liệu và xác định những rủi ro có thể làm thất thoát dữ liệu Thiết lập những chính sách để thực hiện những yêu cấu đã được đạt ra ở bước Pre-Control.

Tất cả những hành động phải được lưu vết 11/20/2024 duyn@uit.edu.vn



Data Loss Prevention



General Control

Document Management Print Management

Email Management Instant Messaging Management

Device Management

Offline Control

Những chính sách phải luôn luôn được thực thi ngay cả khi máy tính ở trang thái offline

Document Backup

- * Sao lưu lại các tập tin trước khi được chỉnh sửa hoặc xóa
- * Sao lưu lại các tập tin trước khi được gởi ra bên ngoài

11/20/2024

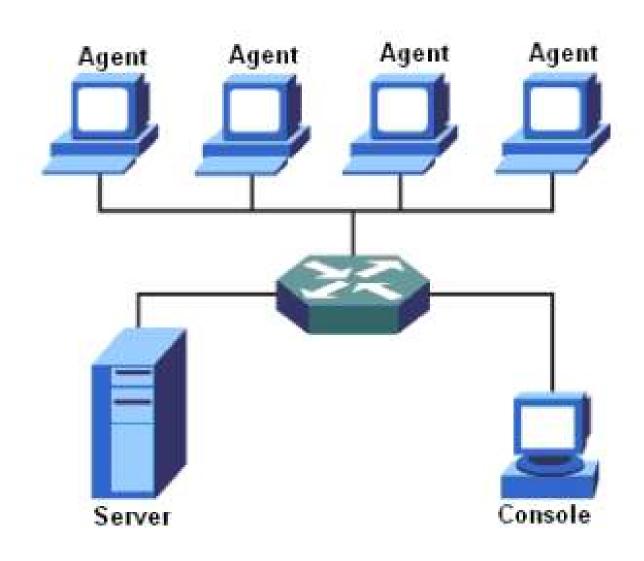


Nội dung

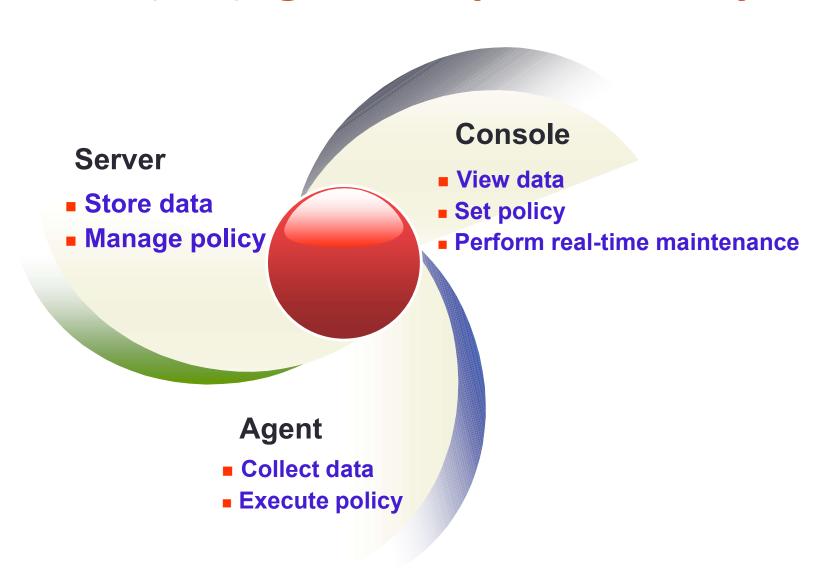
- Endpoint Protection là gì?
- Tại sao lại sử dụng Endpoint Protection?
- Cơ chế hoạt động của Endpoint Protection?
- Công nghệ Endpoint Security của IP-Guard?
- Tính năng của IP-Guard
- Triển khai IP-Guard

11/20/2024 duyn@uit.edu.vn

Mô hình hoạt động của Endpoint Security



Mô hình hoạt động của Endpoint Security



Nội dung

- Endpoint Security là gì?
- Tại sao lại sử dụng Endpoint Security?
- Cơ chế hoạt động của Endpoint Security?
- Công nghệ Endpoint Security của IP-Guard?
- Tính năng của IP-Guard
- Triển khai IP-Guard

Công nghệ Endpoint Security – IP Guard

Bảo mật dữ liệu

Theo dõi hoạt động của người dùng

Quản lý tập trung

Toàn diện và hiệu quả

Nội dung

- Endpoint Security là gì?
- Tại sao lại sử dụng Endpoint Security?
- Cơ chế hoạt động của Endpoint Security?
- Công nghệ Endpoint Security của IP-Guard?
- Tính năng của IP-Guard
- Triển khai IP-Guard



Basic Management



Document Management



Print Management



Device Management



Removable Storage Management



Email Management



Instant Messaging Management



Application Management



Website Management



Bandwidth Management



IP-guard

Network Management



Screen Monitoring



Remote Maintenance



IT Asset Management

Basic Management Module

Basic and essential module of IP-guard. It's a mandatory module.

Basic Events Log

 Record computer startup, logon, logoff, shutdown to check when do your employee start working and what time do they leave their workstations

Basic Control

 Remotely lock, log off, restart and turn off agent computers to manage computers or stop illegal operations

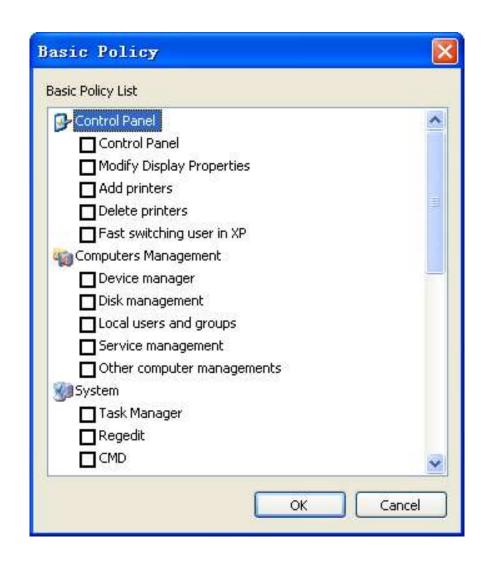
Basic Policy

 Block users from randomly modify system setting in order to prevent accidental and intentional destruction and improve system security.

Basic Management Module

Basic Policy

- Basic Policy
 - Control Panel
- Computers Management
 - System
 - Network
 - IP/Mac Binding
 - ActiveX
 - Others



Document Management Module

Control and monitor document actions to safeguard intellectual property

Document Control

 Effectively control document actions to prevent unauthorized actions, malicious modification and deletion.

Document Backup

 Back up documents before they are modified or deleted to make sure the security of important documents

Document Logging

- Record document actions in detail
- Record document actions of any computer on shared documents

Document Management Module

Document Policy

- Document Control
 - By file name
 - By operation type
 - By disk type
 - By application

| ■ Operation Type | <a11></a11> |
|--------------------|-------------|
| Read | V |
| Modify | V |
| Delete | V |
| 🖃 Disk Type | <a11></a11> |
| Fixed | V |
| Floppy | ✓ |
| Cdrom | ✓ |
| Removable | ✓ |
| Network | ✓ |
| Unknown | V |
| File Name | |
| Backup before m | |
| Backup when cop | |
| Backup when cop | |
| Backup before d | |
| Minimum Size(>=KB) | 0 |
| Maximum Size(<=KB) | 100000 |
| Application | <a11></a11> |

Print Management

Monitor file printing to prevent data leakage

- Print Control
 - Control printing permission to prevent data leakage
 - Reasonably assign print resource to stop wasting print resource
- Print Logging
 - Record print actions in detail for administrator to evaluate the effective usage of print resource
- Print Backup
 - Back up the image of printed file

Print Management

Print Control

- Print Control
 - By printer type
 - By application
 - By Printer name

| Expiring Time | <always></always> |
|------------------------|-------------------|
| ■ Printer Type | <a11></a11> |
| Local Printer | ~ |
| Shared Printer | ~ |
| Network Printer | ~ |
| Virtual Printer | ~ |
| Printer description | 200 |
| Application | <a11></a11> |
| Record Printed image | |
| Record Mode | Not Record |
| Maximum Recorded Pages | <a11></a11> |

Device Management

- Control and monitor the usage of various devices to prevent data leakage
- Device Control
 - Block external devices from connecting to the intranet to protect data security and stop data breaches
 - Detailed and specific control

11/20/2024 duyn@uit.edu.vn

Device Management

List of Controlled Device

- Storage Devices
 - Floppy, CDROM, Burning Device, Tape, Removable Storage Device
- Communications Devices
 - COM, LTP, Bluetooth, Infrared, SCSI Controller, etc.
- Dialup
 - Dial-up Connection
- USB Devices
 - USB hard disk, USB CDROME、USB LAN Adapter, USB Image Device, etc.
- Network Devices
 - Wireless LAN Adapter, Virtual LAN Adapter, PnP Adapter (USB, PCAMCIA)
- Others
 - Audio device, Virtual LAN Adapter
- Any added new devices

Removable Storage Management

- Authorize and encrypt removable storage device to protect your valuable data anywhere at anytime.
- Permission Control
 - Strictly control file in motion to protect data
- Automatic Encryption & Decryption
 - Automatically encrypt data when files are written to any removable storage device to enhance the security level of data in motion
- Whole Disk Encryption
 - Format corporate removable storage device as encrypted removable storage device.
 - Automatically encrypt and decrypt data stored on the encrypted removable storage device within the corporate environment.

^{*} NOTE: Encrypted removable storage device only can be used within the corporate environment

Email Management

© Control and monitor incoming and outgoing emails to prevent data leakage

Email Control

 Block sending specified POP3/SMTP emails or Exchanges emails out of the organization via email to prevent data leakage

Email Logging

- Fully record sender, recipient, subject, text and attachment
- Support POP3/SMTP email, Exchange email, webmail, and Lotus email

Instant Messaging Management

Control and monitor instant messaging to safeguard data security and improve work efficiency

IM Logging

 Completely record instant messages, participants, time to prevent data leaking out via IM applications

File Transfer Control

 Block sending files out of the corporation over limited size or with limited file names

File Backup

Back up transferred file

Application Management

© Control and monitor application usage to improve work efficiency

Application Statistics

 Gather statistics by category, name, detail and group to let you know your employee's work performance

Application Control

- Filter non-work related applications to make your employees concentrate on work business
- Block malicious application to protect computer security

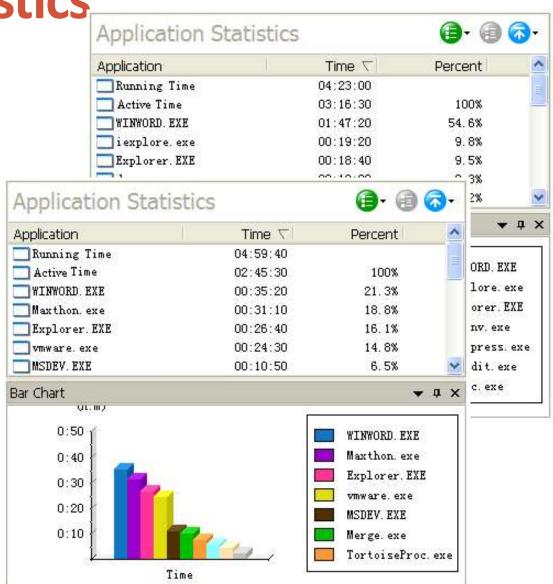
Application Log

 Record application start, stop, window switch to track the application activity of staff **Application Management**

Application Statistics

Application Statistics

- Gather statistics by category
- Gather statistics by name
- Gather statistics by detail
- Gather statistics by group



Website Management

Record staff's web browsing activities; limit web site access right to regulate staff's online activity

Website Statistics

 Gather statistics by different ways to let you know your staff's web browsing activity

Website Management

- Filter non-work related websites during a specified time period
- Block malicious and inappropriate websites

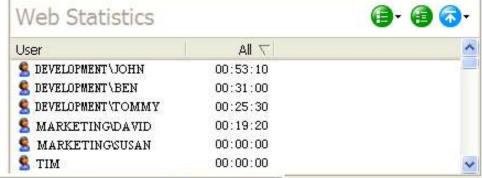
Website Log

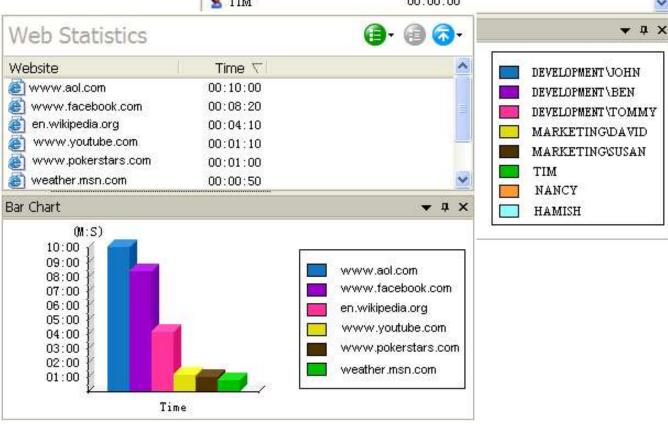
 Record the URL, caption, and time of the visited websites to track what your staff were browsing during office hours

Website Management

Website Statistics

- Website Statistics
 - Gather statistics by category
 - Gather statistics by detail
 - Gather statistics by group





Bandwidth Management

Limit and control bandwidth to avoid any bandwidth abuse

Traffic Statistics

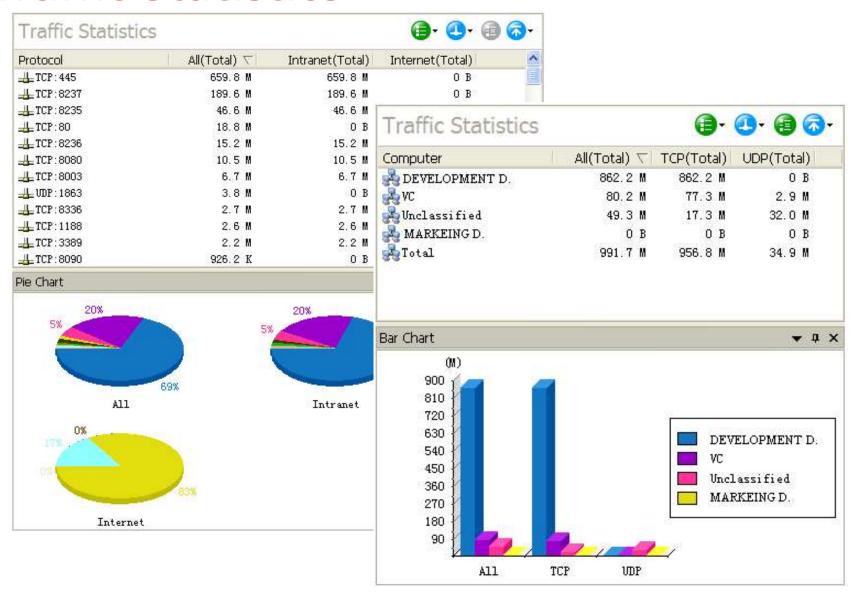
Gather statistics by different ways to assist administrator to analyze traffic consumption

Bandwidth Control

- Limit bandwidth by IP address or port to help administrator reasonably assign various bandwidth to different users
- Limit BT download, online video watching to make sure that you have sufficient bandwidth for business use

Bandwidth Management

Traffic Statistics



Network Management

Prevent unauthorized external computers from accessing internal network

Network Control

 Offer firewall function and block unauthorized computer from communication with internal computers in order to protect intranet security

Network Intrusion Detection

 Scan the whole network to immediately stop unauthorized computers from connecting to the internal network so as to safeguard information security

Screen Monitoring

Record and replay screen snapshot to let you know what your employees do step by step

Screen Monitoring

- View the real-time desktop screen of any computer
- Monitor computers with multi displays
- Centrally monitor multi computers at one time

Screen Record

- Completely record screen history for your latter review
- Set different intervals to capture screen snapshot when different application are being used so as to pay attention to risky applications
- Can save a lot of screen snapshots due to effective compression
- Screen history can be exported to wmv format.

11/20/2024 duyn@uit.edu.vn

Remote Maintenance

Support remote maintenance so as to let you shorten the downtime and quickly solve the system problem

Remote Troubleshooting

- Check the real-time running processes of client computers
- Remotely analyze the running status, system fault and device status of client computers

Remote Control

Perform remote assistance or demonstrate operational instruction

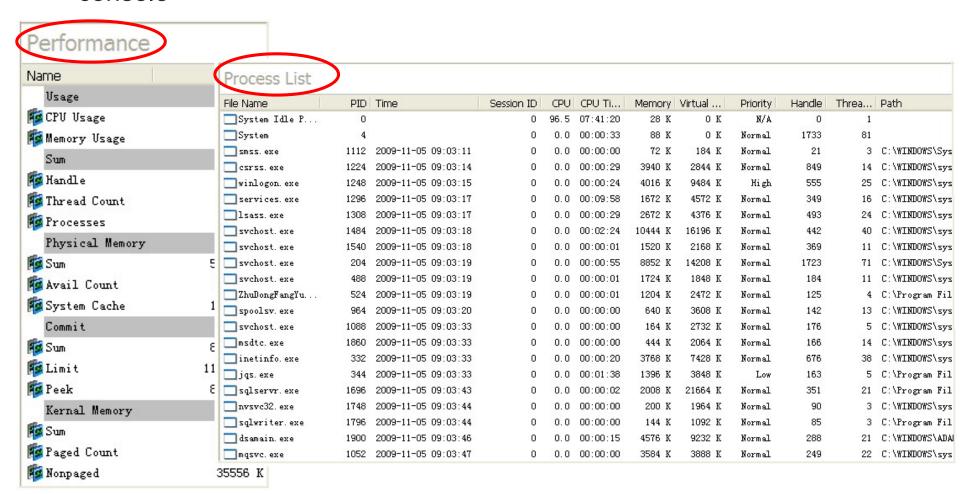
Remote File Transfer

 Remotely transfer files from remote computers to local computer, and from local computer to remote computers in order to quickly gather fault samples to diagnose the problem and update files

Remote Maintenance

Maintenance

Centrally view the running status of any remote computer through IP-guard console



IT Asset Management

Easily manage IT asset to reduce management cost

- Asset Information
 - Automatically collect software and hardware information and provide asset inventory to facilitate administrator's management
 - Offer non-IT asset management function
- Asset Change
 - Record software and hardware changes in detail
 - Instant alert on asset changes

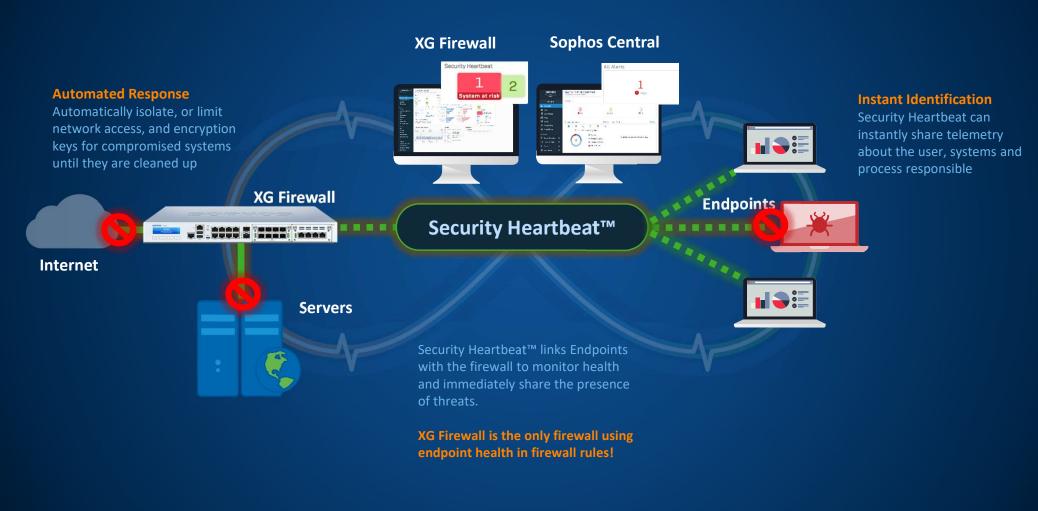
IT Asset Management

- Vulnerability Management
 - Automatically scan system vulnerability of agent computer and provide easy-to-read report and solutions
- Patch Management
 - Check Microsoft for new patches at regular intervals
 - Automatically download and deploy new patches to agent computers
- Software Deployment
 - Deploy files and programs with ease
 - Support breakpoint transmission to facilitate background installation and interactive installation

Nội dung

- Endpoint Security là gì?
- Tại sao lại sử dụng Endpoint Security?
- Cơ chế hoạt động của Endpoint Security?
- Công nghệ Endpoint Security của IP-Guard?
- Tính năng của IP-Guard
- Triển khai IP-Guard

Synchronized Security - Automatically Responding



THE END