quick documentation 🚳 as-informatik.net

| TO: | |
|----------|---------------------------------|
| FROM: | ARND.SPIERING@AS-INFORMATIK.NET |
| SUBJECT: | ASTARO SECURITY GATEWAY V8 |
| DATE: | 24.11.2011 |
| | |

Inhalt

Dieses Dokument beschreibt die Installation und die ersten Konfigurationsschritte des Astaro Security Gateway Essential V8.

Dabei handelt es sich um eine kostenlose (auch für Unternehmen einsetzbare) Firewall.

http://www.astaro.com/landingpages/de-dach-essential-firewall

Die Software kann auf Intel basierender Hardware installiert werden. Hier in diesem Beispiel wird eine Virtual Box mit Linux 2.6 64Bit betrieben.

Geplante Netzstruktur



Ziel ist es zunächst, über den Rechner ASG01 (Astaro Security Gateway) einen Internetzugriff für die internen Clients (Windows 2008 Server und Windows 7 Client) bereitzustellen. Der Windows Server und der Windows 7 Client besitzen jeweils nur ein Internal Network in der Virtual Box (192.168.20.*). Das Gateway besitzt eine Bridged Connection (WAN) und ein Internal Network (LAN).



Installation





| <pre>Intel(B) Core(TM) i7-2720QM CPU @ 2.20GHz, 2085 MHz * Running as a Virtual Box Guest * Disk(s) * VBOX HARDDISK (15360 MB) * CD/DUD ROM Drive(s) * VBOX CD-ROM VBOX CD-ROM</pre> |
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| Astaro Security Gate | way V8.2 |
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| | Select Keyboard |
| | Please select the keyboard layout: |
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| | English (UK) English (USA) |
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| | Spanish |
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| | <uk> <cancel></cancel></uk> |
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| <alt-f2> Console</alt-f2> | <alt-f4> View log <f1> Help</f1></alt-f4> |
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| | Select Timezone Please select your area: Canada/ ↑ Chile/ Etc/ Europe/ Indian/ Mexico/ Mideast/ Pacific/ US/ |
| <alt-f2> Console</alt-f2> | <pre> posixrules +</pre> |

| 000 | Astaro01 [Running] |
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| Astaro Security Gate | way V8.2 |
| | Please select your area: |
| | Berlin†BratislavaBrusselsBucharestBudapestChisinauCopenhagenDublinGibraltarGuernsey |
| | <back> <next></next></back> |
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| | Select Admin Interface |
|-------------------------|--|
| Select wh user inte | nich interface you will use to access the WebAdmin erface: |
| <mark>eth</mark> eth | 1 <mark>0 [link] Intel PRO/1000 MT Desktop Adapter</mark> 11 [link] Intel PRO/1000 MT Desktop Adapter |
| | <back> <next> <cancel> <help></help></cancel></next></back> |
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| 000 | Astaro01 [Running] |
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| Istaro Securit | uy Gateway V8.2 |
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| | |
| | Network Configuration |
| Plea | se configure the administrative network interface: |
| | Address: 192.168.0.66 |
| | Netmask: 255.255.0 |
| | Gateway: 192.168.0.1 (optional) |
| | <back> <next> <cancel></cancel></next></back> |
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| | 64 bit Kernel Support |
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| Because yo 64-Bit ken better pen | our CPU supports a 64-Bit kernel you may install a rnel, supporting large amounts of memory and offering rformance. |
| Issues aft with a 32– | ter installation may then be solved by reinstalling -Bit kernel instead. |
| Do you war | nt a 64-Bit kernel installed? |
| | <back> <mark><yes></yes></mark> <no> <help></help></no></back> |
| | |

| | Enterprise Toolkit | |
|--|--|----|
| To comply you the po packages w | with licensing regulations we are required to offer ossibility of installing only the Open Source softwar without any of the Astaro tools. | re |
| Doing so h Linux. For of 'Astaro | nowever will leave you with only a basic version of r full functionality you need the Enterprise Toolkit o Security Gateway V8.2'. | |
| Do you wis | sh to install all capabilities? | |
| | <back> <mark><yes></yes></mark> <no></no></back> | |
| | | |



| 000 Astaro Se | AstaroO1 [Running] ecurity Gateway V8.2 |
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| | |
| | Installation: Partitioning |
| | The next step will erase all existing data on '/dev/sda' (VBOX HARDDISK). |
| | Would you like to proceed? |
| | <back> <yes> <no></no></yes></back> |
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| | | Formatting | g (Step 2/6) | |
| | | | 75% | |
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| | Formattir | g Log Partition | | |
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| 000 Astaro Security Gat | Astaro01 [Running] eway V8.2 |
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| ep-chroot | Copy Packages (Step 3/6) 20% -smtp-8.20-1.g0838ea6.i686.rpm ktep 3/6 |
| <alt-f2> Console</alt-f2> | <alt-f4> View log <f1> Help</f1></alt-f4> |

| Please rem | ove the CD-ROM, connect the selected administrative |
|--------------------------|---|
| system by | pressing the Reboot button. |
| After the | system has restarted, open |
| https: | //192.168.0.66:4444/ |
| in a web b finish the | rowser to access the WebAdmin user interface and setup. |
| | <pre><reboot> <support></support></reboot></pre> |
| | |
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| 000 | Astaro01 [Running] | |
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| | Press P2 for details | |
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| 0 | Astaro01 [Running] | |
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| Sophos Network Security | chroot: 1psec | done |
| , | chroot: htp | done |
| | chroot: openvpn | done |
| | chroot: pop3 | done |
| | chroot: ppp | done |
| | chroot: pppoe | done |
| | chroot: pptp | done |
| | chroot: pptpc | done |
| | chroot: quagga | done |
| | chroot: reverseproxy | done |
| <u> </u> | chroot: rsyslog | done |
| > | chroot: smtp | done |
| | chroot: snmp | done |
| Ê I | chroot: snort | done |
| Š I | chroot: socks | done |
| ≥ I | chroot: xorp | done |
| K I | :: Loading CPUFreq modules (CPUFreq not supported) | |
| | :: Starting HAL daemon | done |
| rň l | :: Starting Configuration daemon | done |
| | :: Starting Sysmon daemon | done |
| | :: Starting Console Support | done |
| £. | :: Starting Astaro User Authentication | done |
| | :: Backup restore | skipped |
| 2 | :: Starting Postfix | done |
| N I | :: Starting Notification daemon | done |
| - M | :: Starting WebAdmin | done |
| | :: Starting Cron | done |
| 0 | :: Starting service at daemon | done |
| Ĕ I | :: Initializing the PostgreSQL database | done |
| Ū I | :: Starting PostgreSQL | done |
| ů Čt | no schema upgrades found | |
| | :: Starting SSH generate SSH (version 2) RSA host key | done |
| < | generate SSH (version 2) DSA host key | done |
| | generate SSH (version 2) DSA remote logfile key | done |
| | starting SSH daemon | done |
| | :: Starting ulogd | done |
| | :: Starting MiddleWare | done |
| | :: Starting Self Monitor NG | done |
| | Master Resource Control: runlevel 3 has been | reached |
| | Skipped services in runlevel 3: | initasg restore |
| | All configuration is done with WebAdmin. Go to https://192.168.0.66:4444 in your browser. | |
| | 192.168.0.66 | |
| @ Astaro 2011 | login: ^[[[B | |
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| Sophos Network Secu | rity Astaro Secu | rity Gateway V8 | . 3 | े |
| | Basic system setup | | | |
| | Hostname: | ASCE01 | These settings must be made before the system can b | e |
| | Company or Organization Name: City: | as-informatik.net Herne | the hostname must not contain special characters or spaces. After applying the settings, log into the system with username admin and the password you set below | 1 W. |
| | Country: | Germany \$ | , | |
| | admin account password: Repeat password: | ••••• | | |
| | admin account email address: | admin@as-informatik.net | | |
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| Sophos Network Se | arity Astaro Security Gateway | V8 💽 🔂 🔅 |
| | Welcome to WebAdmin | |
| | Basic system setup | |
| | Hostname: | These settings must be made before the system can be used. Please note that ALL fields must be filled in and |
| | Company or Organization Name: | the hostname must not contain special characters or spaces. After applying the settings light the astern |
| | City: | with username admin and the password you set below. |
| | Country: :: Please select :: | • |
| | admin account password: | |
| | Repeat password: | |
| | admin account email address: | |
| | IMPORTANTREAD CAREFULLY BEFORE OPERATING TH BY MARKING THE "ACCEPT"-CHECKBOX OR USING THIS THAT YOU HAVE READ THIS LICENSE AGREEMENT, THA YOU AGREE TO BE BOUND BY ITS TERMS, IF YOU DO NO CONDITIONS OF THIS LICENSE AGREEMENT, USE THE E THE SOFTWARE TOGETHER WITH ALL ACCOMPANYING FULL REFUND OF YOUR PAYMENT. Astaro License Agreement The installation and use of the Astaro Enterprise Toolkit as di section I.is subject to the following terms and conditions whic a license agreement between Astaro GmbH & Co. KG, Germ the contracting individual or company ('User'). This agreement to software updates, upgrades or any other additional compo to the User by Astaro. All software components described in section I. are hereafter collectively referred to as the Software | IIS SOFTWARE SOFTWARE, YOU ACKNOWLEDGE T YOU UNDERSTAND IT, AND THAT IT AGREE TO THE TERMS AND SC KEY AND PROMPTLY RETURN ITEMS TO YOUR SUPPLIER FOR A escribed in th constitute any ('Astaro") and shr talso applies nents provided following e. |
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| Welcome to the ASG se | tup wizard |
| | Congratulations on Your New Astaro Security Gateway Purchase! |
| | This wizard will guide you through some basic configuration steps of your ASG to get your network secured and running quickly. |
| | You can quit the wizard at any point without applying any of its settings by clicking the Cancel button. |
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| | Continue with This Wizard |
| | Restore Existing Backup File |
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| | License Installation | |
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| | Internel // ANI) Network Settinge |
| | Internal (LAN) Network Settings |
| | Please set up your internal (LAN) network by specifying the internal IP address of the firewall and the netmask on the internal interface. |
| | Internal (LAN) Firewall IP: 192.168.20.1 |
| | Netmask: /24 (255.255.0) 💠 |
| | Enable DHCP Server on Internal Interface |
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| Sophos Network Security Astaro | Security Gateway V8 |
| Internet Uplink | |
| | Internet uplink (WAN) Settings |
| | Please set the Internet uplink on your external interface (WAN). DSL interfaces require specifying a username and password. When plain Ethernet is used, you also need to specify the IP and netmask of the external interface. |
| | Interface: |
| | Internet Uplink Type: Standard Ethernet Interface wi |
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| Astaro Sophos Network Security Astaro | Security Gatew Internet uplink (WA Please set the Internet uplink password. When plain Etherne | AY VB N) Settings on your external interface (WAN). DSL interfaces et is used, you also need to specify the IP and ne | equire specifying a username and tmask of the external interface. |
| | Interface: | eth1 🛟 | |
| | Internet Uplink Type: | Standard Ethernet Interface wi | |
| | IP Address: | 192.168.0.66 | |
| | Default Gateway: | 192.168.0.1 | |
| | DNS Forwarder IP: | 192.168.0.1 | |
| Step 4 of 10 | | | |
| | A Network address is mis | sing. X Cancel K Bac | sk 📎 Next 🗸 Finish |
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| Sophos Network Security Astaro | Security Gatew | ay V8 | 上 admin 🛛 🚱 🎲 |
| Finishing the ASG Setu | Thank You for Com To apply the settings you have the corresponding WebAdmin | pleting the ASG Setup Wizar made, click the Apply and Finish button below menus. | d! v. All settings can be changed later in |
| | License Installed Internal Address Internet Uplink DHCP Server Firewall Settings Web Security AntiVirus Web Security Categorization Inbound SMTP Relay POP3 Proxy Intrusion Protection Application Control | ✓ 192.168.20.1 Standard Ethernet Interface with Static IP Address × × × × × × × × × × × × × | |
| Step 10 of 10 | | × Cancel 《 B | ack 🔊 Next 🗸 Finish |



Zugriffe aus dem Internen Netz

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| You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings. | natically if your network supports ask your network administrator |
| 🔘 Obtain an IP address automatical | У |
| Ouse the following IP address: | |
| IP address: | 192 . 168 . 20 . 222 |
| Subnet mask: | 255.255.255.0 |
| Default gateway: | 192 . 168 . 20 . 1 |
| Obtain DNS server address autom | natically |
| Ose the following DNS server add | resses: |
| Preferred DNS server: | 192 . 168 . 20 . 244 |
| Alternate DNS server: | · · · |
| Validate settings upon exit | Advanced |
| | OK Cancel |

Netzwerk Konfiguration des Windows 7 Clients.

192.168.20.244 ist der Windows 2008 Server (Domänen Controller).





Zugriff auf eine Internet Seite aus dem internen Netz über ASGE01.



Webinterface Dashboard

| | | /Gateway V8 | | | | 💄 admin | | 9 |
|--------------------------|---|---|-------------------|--------------|-------------|-------------|-----------|----------|
| search menu | 5 Dashboard for Thu Nov 24 2011 10:15: | 07 | | | Refre | sh: Every 5 | i seconds | 5 🗘 |
| Dashboard | C ASGE01 | Interface Name | Type | State | Link | In | Out | |
| Management | Model: ASG Software | | 1360 | otate | LIIK | | out | |
| Definitions & Users | License ID: 361870 | eth0 Internal | Ethernet | Up | Up | 0.2 Kbit | | 0 |
| Interfaces & Routing | Subscriptions: Base Functionality | eth1 External (WAN) | Ethernet | Up | Up | 0.2 kbit | | 0 |
| Network Services | | Current evetem confid | nuration | | | | | |
| Network Security | Version information | Current system comig | ith 2 rules | | | | | |
| Web Security | Firmware version: 8.202 | Intrusion Preventi | on is active with | th 0 of 0 pa | atterns* | | | |
| Mail Security | Last check: 3 minutes ago Web Filtering is active, 0 requests served today* | | | | | | | |
| Wireless Security | | O Network Visibility ETP Provy * | is active, 0 Ap | plication C | ontrol rule | es active* | | |
| Web Application Security | Kesource usage | | | | | | | |
| RED Management | CPU 🌧 0% | POP3 Proxy * | | | | | | |
| Log Management | Swap 39% of 1.0 GB | Web Application S | ecurity * | | | | | |
| Site-to-site VPN | Log Disk 🚽 🚺 2% of 3.5 GB | AntiVirus is active | for protocols 🗄 | ITTP/S* | | | | |
| | Data Disk 🥃 📥 14% of 2.7 GB | ik ik </td <td></td> <td></td> <td></td> | | | | | | |
| Remote Access | | AntiSpyware is ac Email Energy attach | <u>tive*</u> | | | | | |
| Logging & Reporting | Today's threat status | | - | | | | | |
| Support | Firewall: 22 packets filtered | Generation Stress is Generation Stress is | sinactive | | | | | |
| Log off | AntiVirus: 0 items blocked | A A/Cluster is inac | tive | | | | | |
| | AntiSpam: 0 emails blocked | Log Management | is inactive | | | | | |
| | AntiSpyware: 0 items blocked | Wireless Security | is inactive | | | | | |
| | Web Filter: UURLS filtered | | | | | | | |

Hier ist ein Dashboard Zugriff über das WAN Interface abgebildet.

Um nochmals zu prüfen, ob der Zugriff auch wirklich nur über das Security Gateway geht, wird dieses einfach heruntergefahren und vom Client ein weiterer Internetzugriff versucht.



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| Internet Explorer cannot display the webpage | | | |
| What you can try: | | | |
| Diagnose Connection Problems | | | |
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