I wrote an IPFire Security Hardening guide - forum.ipfire.org

1/24/21, 9:40 PM

1/24/21, 9:41 PM I wrote an IPFire Security Hardening guide - Page 2 - forum.ipfire.org forum.ipfire.org Search... **U** Login **■** Quick links **?** FAQ **☆** Home < Index < English Area < IPFire in General I wrote an IPFire Security Hardening guide Post Reply

Search this topic... Re: I wrote an IPFire Security Hardening guide by FischerM » November 15th, 2015, 12:24 pm Hi, Community Developer @dnl: Perhaps you'd like to add privoxy to the section "2. Additional configuration"? Posts: 1025 Joined: November 2nd, 2011, 12:28 pm I got it running for about 6 months now without problems. Jm2c - best, Matthias Re: I wrote an IPFire Security Hardening guide dnl 66 by **dnl** » January 15th, 2016, 11:25 pm Posts: 375 Joined: June 28th, 2013, 11:03 am **66** FischerM wrote: Hi, @dnl: Perhaps you'd like to add privoxy to the section "2. Additional configuration"? I got it running for about 6 months now without problems. Jm2c - best, Matthias Hello, I only just read your reply. Thanks for the suggestion, I will investigate 'provixy' as I hadn't heard of it before! Please feel free to add things to the page now as you see fit. In December I removed the statement at the beginning of the page saying that I was working on it. Thanks for that! Re: I wrote an IPFire Security Hardening guide dnl 66 by **dnl** » January 15th, 2016, 11:29 pm Posts: 375 Joined: June 28th, 2013, 11:03 am I guess the only issue is that the page is already too long for the target audience. That is, people who are new to IPFire and wish to perform extra security hardening. It would be helpful if every suggestion on the page had clear instructions for implementation in the same language as the Wiki (even if those instructions are on a separate, but linked page). Unfortunately your link for privoxy is to the German forum and many of us can't read German. 🚇 Re: I wrote an IPFire Security Hardening guide 66 by FischerM » January 16th, 2016, 7:34 am **66** dnl wrote: Community Developer ...Unfortunately your link for privoxy is to the German forum and many of us can't read German Posts: 1025 Joined: November 2nd, 2011, 12:28 pm This should be no problem. I wrote the linked posting for the german forum, I can write a "condensed" version in english for the wiki... Best, Matthias Re: I wrote an IPFire Security Hardening guide dnl 66 by **dnl** » January 22nd, 2016, 8:37 am Posts: 375 Joined: June 28th, 2013, 11:03 am **66** FischerM wrote: This should be no problem. I wrote the linked posting for the german forum, I can write a "condensed" version in english for the wiki... 😉 Excellent! Thanks for that! I've not had much time lately, but PM me when it is done if I can help you by reviewing it. Re: I wrote an IPFire Security Hardening guide liukuohao 66 by liukuohao » October 18th, 2016, 4:12 am Posts: 76 Joined: June 17th, 2013, 4:16 am Hello dnl, By default a firewall will allow any traffic initiated from the GREEN network to access the RED without restriction. If in case, any of the client in the GREEN network is compromised, and start pouring out information unknowingly to the attacker located on outside your network. Would it be advisable...... Configure 1st firewall rule..... Configure 2nd firewall rule..... Configure 3rd firewall rule....etc....etc.... to have a LAST firewall rule- REJECT all other traffic? Re: I wrote an IPFire Security Hardening guide dnl 66 by **dnl** » October 19th, 2016, 3:07 am Posts: 375 Joined: June 28th, 2013, 11:03 am **66** liukuohao wrote: Hello dnl, By default a firewall will allow any traffic initiated from the GREEN network to access the RED without restriction. If in case, any of the client in the GREEN network is compromised, and start pouring out information unknowingly to the attacker located on outside your network. Would it be advisable...... Configure 1st firewall rule..... Configure 2nd firewall rule..... Configure 3rd firewall rule....etc....etc.... to have a LAST firewall rule- REJECT all other traffic? Hello liukuohao, Thank you for your suggestion! Are you suggesting that the security guide should recommend outbound firewall rules, instead of the default "allow all"? Is that right? If so I agree that this does improve security, but there needs to be instructions on how to define these rules for a network. Outbound rules can be quite complex, unless you have a simple network. Re: I wrote an IPFire Security Hardening guide liukuohao 66 by liukuohao » October 19th, 2016, 3:56 am Posts: 76 Joined: June 17th, 2013, 4:16 am Yes, something like that. Allow what is required to flow out (for example, http, https, dns....etc...etc) So, at the top of firewall rule, you ALLOW traffic http, https, dns.....etc.....etc. then at the very last rule, BLOCK all other traffic flowing out from GREEN network to RED. If say, a PC in the GREEN network got infected with BOTNET, then it will not able to communicate to its HOST living outside in the RED /WAN network. Just a suggestion only. 🕛 Over in pfSense, the people always preach us not to use Default Allow rule. Allow what kind of traffic (http, https, dns, ftp...etc) is necessary for your PC GREEN network to work with. Block what is not required. Re: I wrote an IPFire Security Hardening guide liukuohao 66 by liukuohao » October 19th, 2016, 7:46 am Posts: 76 Joined: June 17th, 2013, 4:16 am **66** liukuohao wrote: Yes, something like that. Allow what is required to flow out (for example, http, https, dns....etc...etc)

This results in no traffic allowed to start with. After that is set - firewall rules for Basic Services need to be configured - this way you really control what traffic from Firewall to Red and Green to Red is allowed. With Default allowed you have basically no control, DNS, Proxy can just be bypassed by Client PC Settings. These Rules might be the most useful to start with, because they allow Basic Surfing with activated Proxy and IMAPS and SMTPS for mailing from Green Clients directly. ICMP for Pinging in all directions allowed - just because it makes testing routes easier. NTP from firewall to red so IPFire can get the time - clients can use NTP os IPFire without extra rule. Firewall HTTP / HTTPS so the Proxy and IPFire can access Internet. Firewall Rules New rule Firewall Rules TOP ☑ / / ↑ ↑ ~ ~ Incoming Firewall Access Outgoing Firewall Access 2 / 👫 🕆 UDP TCP 2 2 / A 11 ^ V \square UDP P / A 11 ^ ~ Advanced web proxy configuration Advanced Web Proxy Transparent port: *
Visible hostname: Transparent on Green Enabled on Blue Transparent on Blue Upstream proxy Client IP address forwarding: semame forwarding: Upstream password: Cache administrator password: Harddisk cache size (M8): * Memory cache size (MB): * Number of level-1 subdirectories: Memory replacement policy Cache replacement policy: Destination port Allowed SSL ports (one per line): *
443 # https #43 # https #800 # Squids port (for icons) If you use Windows Client and want to get Windows Updates this must also run trought Proxy. => netsh winhttp set proxy IPFire:Port Re: I wrote an IPFire Security Hardening guide by **dnl** » March 5th, 2017, 2:30 am Hey mike-us, Sorry for the really delayed reply! I've not got much time to tinker these days (4) That's a great start for a set of instructions for people to configure the outbound firewall.

Re: I wrote an IPFire Security Hardening guide

Re: I wrote an IPFire Security Hardening guide

I suggest dropping outgoing packets from the fallowing protocols to disrupt malware.

(the only exception would be SSH which it might be wise to whitelist for specific sites).

Would you like to edit the wiki page? I'm happy to polish the page later if it helps.

IPFire 2.x (Latest Update) on x86_64 Intel Bay Trail CPU, 4GiB RAM, RED + GREEN + BLUE + ORANGE

select ones like this. However I like that it is much easier to implement and will be less likely to cause problems.

protocols used by spammers. I also like the idea of creating a restrictive policy around SSH, and whitelisting trusted users.

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to edit the wiki for awhile; I would be happy to help out however I can. Thank you for your response, and your input.

by **bamiller1018** » November 27th, 2018, 11:07 pm

MS RPC - TCP & UDP port 135

SMB/IP – TCP port 445 TFTP - UDP port 69 Syslog - UDP port 514 SNMP - UDP ports 161-162 IRC - TCP ports 6660-6669

Cheers

NetBIOS/IP - TCP & UDP ports 137–139

by **dnl** » November 28th, 2018, 9:44 am

66 bamiller1018 wrote: 1

66 bamiller1018 wrote: 1

MS RPC - TCP & UDP port 135

SMB/IP - TCP port 445 TFTP - UDP port 69 Syslog – UDP port 514 SNMP - UDP ports 161-162 IRC - TCP ports 6660-6669

That's a good starting point!

Firewall Rules page much easier to read.

Re: I wrote an IPFire Security Hardening guide

by **bamiller1018** » November 28th, 2018, 5:45 pm

Return to "IPFire in General"

https://forum.ipfire.org/viewtopic.php?f=27&t=15151&start=15

☆ Home < Index

NetBIOS/IP - TCP & UDP ports 137-139

Thanks very much!

Cheers

Cheers...

Thanks!

So, at the top of firewall rule, you ALLOW traffic http, https, dns.....etc.....etc.

Over in pfSense, the people always preach us not to use Default Allow rule.

I tried my method of blocking all unwanted traffic does not seem to work! 🥮

I tried my method of blocking all unwanted traffic does not seem to work! 🥮

The hardest part is going to be software which opens connections on random outward ports.

It would be very wise to change Firewall Default Behaviour (FORWARD and OUTGOING) to blocked.

network. Just a suggestion only. 😃

I like take back my I mentioned earlier above.

Re: I wrote an IPFire Security Hardening guide

I like take back my I mentioned earlier above.

Re: I wrote an IPFire Security Hardening guide

http://wiki.ipfire.org/en/configuration ... ult-policy

by mike-us » November 29th, 2016, 10:26 pm

It takes a lot of effort to do this, but it will improve security.

Block what is not required.

by **dnl** » October 24th, 2016, 10:39 am

66 liukuohao wrote:

Oh, I think it is a good idea.

ports (or protocols).

then at the very last rule, BLOCK all other traffic flowing out from GREEN network to RED.

Allow what kind of traffic (http, https, dns, ftp...etc) is necessary for your PC GREEN network to work with.

If say, a PC in the GREEN network got infected with BOTNET, then it will not able to communicate to its HOST living outside in the RED /WAN

If you enable logging for the deny rule and then watch the firewall log you can find out which devices are attempting to talk on which

66

66

Posts: 375

mike-us

Joined: June 28th, 2013, 11:03 am

Joined: November 24th, 2016, 2:47 pm

Would you like to have a go at creating a new wiki page which we could work in to a set of bullet-point instructions for newbies? I suggest a new page instead of writing it on the Hardening Guide because I think that this will end up being quite long and I'm concerned that the hardening page itself is already too long. IPFire 2.x (Latest Update) on x86_64 Intel Bay Trail CPU, 4GiB RAM, RED + GREEN + BLUE + ORANGE I would like to start by thanking you for a wonderful guide to hardening IPFire. Your tutorial is concise, accurate, and easy to fallow. On the subject of configuring outgoing firewall rules, a good starting point is to research a subject known as Egress Filtering. I am not certain if I can provide a link to an external site on this forum. However, I can suggest a good starting point. I suggest dropping outgoing packets from the fallowing protocols to disrupt malware. November 27th, 2018, 11:07 pm I would like to start by thanking you for a wonderful guide to hardening IPFire. Your tutorial is concise, accurate, and easy to fallow. November 27th, 2018, 11:07 pm On the subject of configuring outgoing firewall rules, a good starting point is to research a subject known as Egress Filtering. I am not certain if I can provide a link to an external site on this forum. However, I can suggest a good starting point.

dnl 66 Posts: 375 Joined: June 28th, 2013, 11:03 am bamiller1018 66 Posts: 2 Joined: November 27th, 2018, 10:55 pm dnl 66 Posts: 375 Joined: June 28th, 2013, 11:03 am Most users could also drop SMTP (TCP/25) and IMAP (TCP/143) outbound as in 2018 they should be using SMTP over TLS/SSL or IMAPS. Depending on your needs you could also block, telnet(!), SSH and SFTP oubound too as they're not commonly used in all environments I've not addressed outbound firewall rules yet as I had hoped to use more strict whitelisting of ports/protocols, rather than blacklisting I'm not sure if you're aware but the new (as of a few years ago) firewall implementation in IPFire now has services defined which can be directly used in rules. So rather than having to enter a protocol and port you can just use a pre-defined service. It makes the main bamiller1018 66 Posts: 2 Joined: November 27th, 2018, 10:55 pm You are most welcome. Thank you for writing the tutorial. You make a very good point concerning SMTP and IMAP; both are common Two factor verification and the implementation of a hardware random number generator are my next project. Most likely wont be able 34 posts **< 1 2 3 >** Delete cookies All times are UTC

Page 1 of 2

