Mise en place d'un serveur Proxy Squid

Qu'est ce qu'un Proxy

Un proxy, ou serveur mandataire, est un serveur qui agit comme intermédiaire pour les requêtes des clients cherchant à accéder à d'autres serveurs. En d'autres termes, un proxy reçoit les requêtes des clients (par exemple, des navigateurs web), les transmet aux serveurs appropriés, puis renvoie les réponses de ces serveurs aux clients. Cela peut offrir plusieurs avantages, notamment l'amélioration de la sécurité, le filtrage des contenus, l'accélération des accès grâce à la mise en cache, et l'anonymisation des requêtes pour protéger la vie privée des utilisateurs.

Le choix du pare feu Squid

Le pare-feu UFW, pour "Uncomplicated Firewall", est une interface utilisateur simplifiée destinée à la gestion des iptables sur les systèmes basés sur Linux. UFW a été développé pour faciliter la configuration d'iptables, qui est puissant mais peut s'avérer complexe pour les utilisateurs peu expérimentés. Grâce à UFW, les administrateurs système et les utilisateurs peuvent configurer des règles de pare-feu de manière plus intuitive sans avoir à plonger dans les détails syntaxiques complexes d'iptables.

Fonctionnalités principales d'UFW

- **Simplicité d'utilisation :** UFW fournit une interface de ligne de commande simple pour la gestion des règles de pare-feu, rendant les tâches de sécurité réseau moins intimidantes pour les nouveaux utilisateurs.
- **Gestion de règles basées sur des politiques :** Permet aux administrateurs de définir facilement des règles qui contrôlent le trafic entrant, sortant et interne sur la base de ports spécifiques, d'applications, et de protocoles.
- **Support des profils d'application :** UFW permet la définition de profils pour des applications spécifiques, facilitant la configuration du pare-feu pour des services et des logiciels courants.

- **Logging :** Offre des capacités de journalisation pour surveiller et analyser les tentatives d'accès et les activités suspectes.
- Intégration avec iptables : Bien qu'UFW soit conçu pour être plus simple que la manipulation directe d'iptables, il se base sur iptables pour le filtrage du trafic, garantissant ainsi robustesse et fiabilité.

Comment utiliser Proxy

L'utilisation d'un proxy Squid dans votre réseau peut être configurée de manière à ce que les clients redirigent leurs requêtes web à travers le serveur proxy. Voici quelques étapes pour configurer et utiliser un proxy Squid :

Configurer les Clients : Sur les ordinateurs clients, configurez les paramètres de proxy dans le navigateur ou le système d'exploitation pour pointer vers l'adresse IP et le port du serveur Squid (par exemple, 192.168.1.100:3128).

Configurer les Politiques de Contrôle d'Accès : Dans le fichier de configuration de Squid (/etc/squid/squid.conf), vous pouvez définir des règles d'accès pour contrôler quels utilisateurs ou appareils peuvent utiliser le proxy.

Installation de Squid

• sudo apt install squid -y



Configuration de Squid

- sudo cp /etc/squid/squid.conf /etc/squid/squid.conf.backup
- sudo nano /etc/squid/squid.conf
- Il faut modifier le fichier pour parametrer le proxy

thomas@raspberrypi:~ \$ sudo cp /etc/squid/squid.conf /etc/squid/squid.conf.backup
thomas@raspberrypi:~ \$ sudo nano /etc/squid/squid.conf

	GNU nano 7.2
#	WELCOME TO SQUID 5.7
#	
#	
#	This is the documentation for the Squid configuration file.
#	This documentation can also be found online at:
#	http://www.squid-cache.org/Doc/config/
#	
#	You may wish to look at the Squid home page and wiki for the
#	For and other documentation.
#	FAQ and other documentation.
#	http://www.squid-cache.org/
#	nttp://wiki.squid-cacne.org/squid-aq
#	http://wiki.squid-cache.org/Con+igExamples
#	
#	This documentation shows what the defaults for various directives
#	happen to be. If you don't need to change the default, you should
#	leave the line out of your squid.conf in most cases.
#	
#	In some cases "none" refers to no default setting at all,
#	while in other cases it refers to the value of the option
#	- the comments for that keyword indicate if this is the case.
#	
#	Configuration options can be included using the "include" directive.
#	Include takes a list of files to include Quoting and wildcards are
#	supported
#	supported.
#	
#	For example,
#	
#	include /path/to/included/file/squid.act.config
#	
#	Includes can be nested up to a nard-coded depth of 16 Levels.
#	This arbitrary restriction is to prevent recursive include references
#	from causing Squid entering an infinite loop whilst trying to load
#	configuration files.
#	
#	Values with byte units
#	
#	Squid accepts size units on some size related directives. All
#	such directives are documented with a default value displaying
#	a unit.
#	
#	Units accepted by Squid are:
#	bytes - byte
#	KB = Kilobyte (1024 bytes)
#	MB = Megabyte
#	CP = Circleto
#	GB - Gigabyte

.

• Choix du port utilisé





- Etablissement des règles ACL
- On commence à les chercher



- On indique les reseaux voulu
- Et les port qu'on veut inclure

```
#Default:
# ACLs all, manager, localhost, to_localhost, and CONNECT are predefined.
# Recommended minimum configuration:
#
# Example rule allowing access from your local networks.
# Adapt to list your (internal) IP networks from where browsing
# should be allowed
acl localnet src 0.0.0.1-0.255.255.255 # RFC 1122 "this" network (LAN)
acl localnet src 0.0.0.1-0.255.255.255 # RFC 1122 this network (LAN)
acl localnet src 10.0.0.0/8 # RFC 1918 local private network (LAN)
acl localnet src 100.64.0.0/10 # RFC 6598 shared address space (CGN)
acl localnet src 169.254.0.0/16 # RFC 3927 link-local (directly plugged) machines
acl localnet src 172.16.0.0/12 # RFC 1918 local private network (LAN)
acl localnet src 192.168.0.0/16
                                                  # RFC 1918 local private network (LAN)
acl localnet src fc00::/7
acl localnet src fe80::/10
                                                   # RFC 4193 local private network range
# RFC 4291 link-local (directly plugged) machines
                                                    #acl local systems
acl local_network src 192.168.0.0/24
acl vpn_network src 10.83.207.1/24
                                                    #vpn network
acl SSL_ports port 443
acl Safe_ports port 80
                                          # http
acl Safe_ports port 21
                                          # ftp
                                         # https
acl Safe_ports port 443
                                         # gopher
acl Safe_ports port 70
acl Safe_ports port 210
                                         # wais
acl Safe_ports port 1025-65535  # unregistered ports
                                         # http-mgmt
acl Safe_ports port 280
                                         # gss-http
# filemaker
acl Safe_ports port 488
acl Safe_ports port 591
acl Safe_ports port 777
                                          # multiling http
acl Safe_ports port 44402
                                         #Pivpn
```

• On indique les règles de permission ou de refus



• Modification de la mémoire cache



• On ajoute le serveur DNS

Spécifier la liste des serveurs DNS à utiliser : dns_nameservers 10.0.0.1 192.172.0.4

thomas@raspberrypi:~	\$ sudo /usr/sbin/squid -k check
2020/03/23 01.20.03	Startury Initializing Authentication Schemes
2024/03/23 01:20:03	Startup: Initialized Authentication Scheme 'basic'
2024/03/23 01:20:03	Startup: Initialized Authentication Scheme 'digest'
2024/03/23 01:20:03	Startup: Initialized Authentication Scheme 'negotiate'
2024/03/23 01:20:03	Startup: Initialized Authentication Scheme 'ntum'
2024/03/23 01:20:03	Processing Configuration File: /etc/squid/squid.conf (depth 0)
2024/03/23 01:20:03	Processing: acl localnet src 0.0.0.1-0.255.255.255 # RFC 1122 "this" network (LAN)
2024/03/23 01:20:03	Processing: acl localnet src 10.0.0.0/8 # RFC 1918 local private network (LAN)
2024/03/23 01:20:03	Processing: acl localnet src 100.64.0.0/10 # RFC 6598 shared address space (CGN)
2024/03/23 01:20:03 2024/03/23 01:20:03	Processing: acl localnet src 172.16.0.0/10 # #FC 1918 local convectus plugged machines
2024/03/23 01:20:03	Processing: act localnet src 192.168.0.0/2 # WC 1910 local private network (LAN)
2024/03/23 01:20:03	Processing: acl localnet src fc00::/7
2024/03/23 01:20:03	Processing: acl localnet src fe80::/10
2024/03/23 01:20:03	Processing: acl local_network src 192.168.0.0/24 #acl local systems
2024/03/23 01:20:03	Processing: act vpr_inctwork src 10.03.207.1 #vpr network
2024/03/23 01:20:03	Processing: acl Safe_ports port 80 # http
2024/03/23 01:20:03	Processing: acl Safe_ports port 21 # ftp
2024/03/23 01:20:03	Processing: acl Safe_ports port 443 # https
2024/03/23 01:20:03	Processing: acl Safe_ports port 70 # gopher
2024/03/23 01:20:03	Processing: act safe ports port 210
2024/03/23 01:20:03	Processing: acl Safe_ports port 280 # http-mgmt
2024/03/23 01:20:03	Processing: acl Safe_ports port 488 # gss-http
2024/03/23 01:20:03	Processing: acl Safe_ports port 591 # filemaker
2024/03/23 01:20:03 2024/03/23 01:20:03	Processing: acloate_ports port /// # multiling http Processing: acloate_ports port //// #Divns
2024/03/23 01:20:03	Processing: http://www.acess.denv/Safe_ports
2024/03/23 01:20:03	Processing: http_access deny CONNECT !SSL_ports
2024/03/23 01:20:03	Processing: http_access allow localhost manager
2024/03/23 01:20:03	Processing: http://www.secs.secs.sec.sec.secs.secs.secs.sec
2024/03/23 01:20:03	Processing: http://dcess.atlow.local.network
2024/03/23 01:20:03	Processing: http://access allow vpn_network
2024/03/23 01.20.03	Processing: http://www.all
2024/03/23 01.20.03	reversing neep_access deny acc
2024/03/23 01:20:03	Processing: include /etc/squid/conf.d/*.conf
2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03	Processing: include /etc/squid/conf.d/*.conf Processing Configuration File: /etc/squid/conf.d/debian.conf (depth 1) Processing: longile rotate A
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2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 esquid.service Loaded: Loa Active: act Docs: mai Process: 244 Main PID: 244 Tasks: 5 0 CPU: 199 CGroup: /s CGroup: /s CGroup: /s Mar 22 23:07:21 Mar 22 23:07:21 Mar 22 23:07:21 Mar 22 23:07:21 Mar 22 23:07:21	Processing: include /etc/squid/conf.d/*.conf Processing: configuration File: /etc/squid/conf.d/debian.conf (depth 1) Processing: logfile_rotate 0 Processing: http access allow localhost processing: http access allow localhost processing: http access allow localhost - Squid Web Proxy Server aded (/lib/systemd/system/squid.service; enabled; preset: enabled) tive (running) since Fri 2024-03-22 23:07:21 CET; 1s ago 1:squid(8) 52 ExecStartPre=/usr/sbin/squidforeground -z (code=exited, status=0/SUCCESS) 55 (squid) (limit: 9248) 9ms ystem.slice/squid.service 2465 /usr/sbin/squidforeground -sYC 2467 (squid-1)"kid squid-1foreground -sYC 2468 (logfile-daemon)" /var/log/squid/access.log 2469 "(unlinkd)" 2470 "(pinger)" raspberrypi squid[2467]: 0 Objects expired. raspberrypi squid[2467]: 0 Objects cancelled. raspberrypi squid[2467]: 0 Swapfile clashes avoided. raspberrypi squid[2467]: 0 Swapfile clashes avoided. raspberrypi squid[2467]: Took 0.04 seconds (0.00 objects/sec). raspberrypi squid[2467]: Completed Validation Procedure raspberrypi squid[2467]: Completed Validation Procedure
2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 2024/03/23 01:20:03 constant in the interval squid.service Loaded: Loa Active: act Docs: mai Process: 244 Main PID: 244 Tasks: 5 0 CPU: 199 CGroup: /s CGroup: /s CGroup: /s CGroup: /s CGroup: /s CGroup: /s Mar 22 23:07:21 Mar 22 23:07:21 Mar 22 23:07:21 Mar 22 23:07:21 Mar 22 23:07:21	Processing: include /etc/squid/conf.d/*.conf Processing: configuration File: /etc/squid/conf.d/debian.conf (depth 1) Processing: logfile_rotate 0 Processing: http access allow localhost /pi:~ \$ sudo systementl status squid - Squid Web Proxy Server aded (/lib/systemd/system/squid service; enabled; preset: enabled) tive (running) since Fri 2024-03-22 23:07:21 CET; ls ago h:squid(8) 22 ExecStartPre=/usr/sbin/squidforeground -z (code=exited, status=0/SUCCESS) 55 (squid) (limit: 9248) Pms ystem.slice/squid.service 2465 /usr/sbin/squidforeground -sYC 2467 "(squid-1)"kid squid-1foreground -sYC 2468 "(logfile-daemon)" /var/log/squid/access.log 2469 "(unlinkd)" 2470 "(pinger)" raspberrypi squid[2467]: 0 Objects expired. raspberrypi squid[2467]: 0 Objects cancelled. raspberrypi squid[2467]: 0 Duplicate URLs purged. raspberrypi squid[2467]: 0 Swapfile clashes avoided. raspberrypi squid[2467]: Validated 0 Entries
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Pour consulter les logs

• sudo tail /var/log/squid/access.log

https://www.youtube.com/watch?v=qcXO93wgSQk