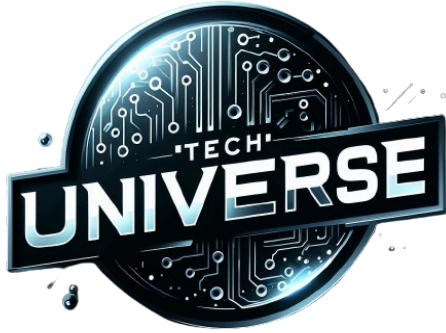




Procédure d'Exploitation - Tech Universe

Configuration Serveur Apache

version 1.0 . 25 Mars 2024

But de la procédure : mettre en place 2 serveurs apache

Temps de réalisation : 6 semaine



	Procédure d'Exploitation	Configurer Apache
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Le besoins exprimé par le gérant de Tech Universe :

Le responsable des services techniques vous a missionné pour 4 tâches différentes :

1) Maquette de l'infrastructure actuelle : Il vous faut dans un premier temps maquetter l'infrastructure

- Pour le serveur Apache, vous réaliserez la maquette avec la page par défaut d'Apache.
- Pour valider le bon fonctionnement de votre infrastructure la page Web doit être accessible depuis le WAN (un PC de la salle). Grâce à l'IP publique de l'entreprise (l'adresse WAN de votre UTM).

https://olange.developpez.com/articles/debian/installation-serveur-dedie/?page=page_2#

Se connecter en root sur le serveur puis effectuer une mise à jour :

```
root@SRV-DEBIAN-01:/# apt-get update
root@SRV-DEBIAN-01:/# apt-get upgrade
```

Installer le serveur apache :

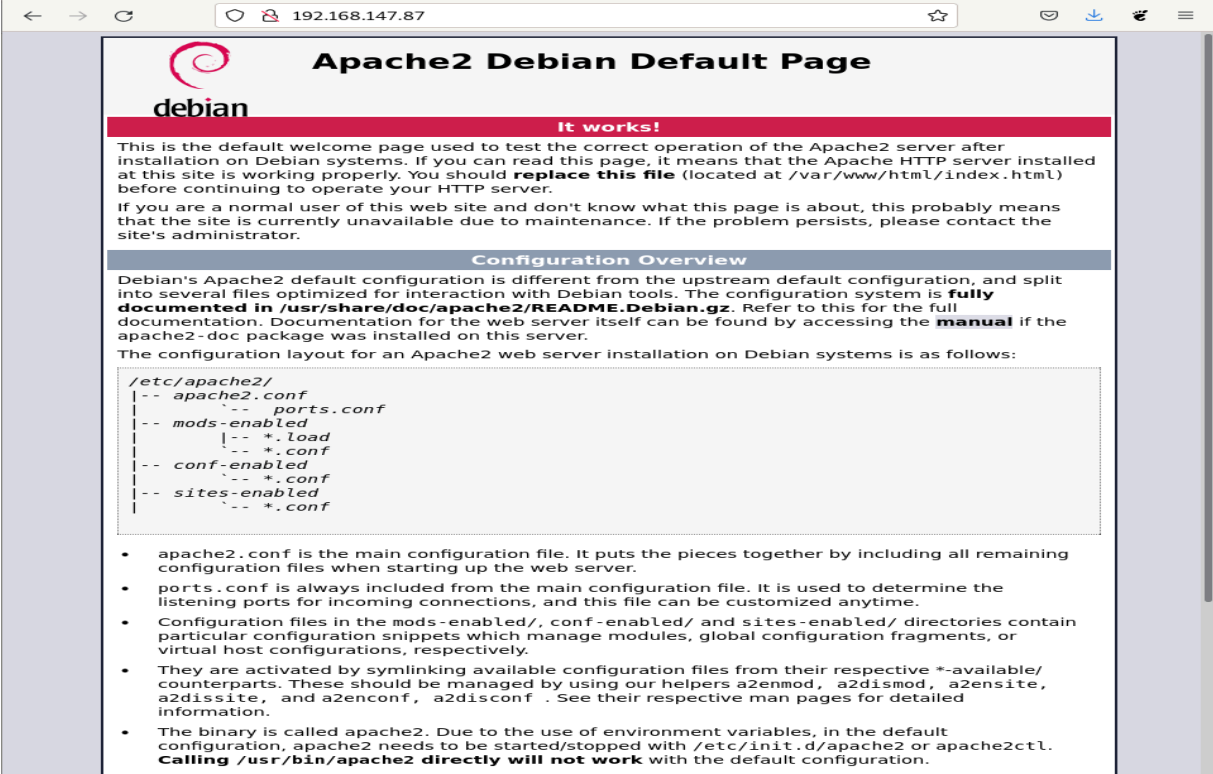
```
root@SRV-DEBIAN-01:/etc/init.d# apt-get install apache2
```

	Procédure d'Exploitation	Configurer Apache
---	-----------------------------------	----------------------------

restart le Serveur apache :

```
root@SRV-DEBIAN-01:/etc/init.d# systemctl restart apache2
root@SRV-DEBIAN-01:/etc/init.d# █
```

Voici la page par défaut de pour le serveur apache :



Apache2 Debian Default Page

debian

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Debian systems. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Debian's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Debian tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Debian systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
```

- `apache2.conf` is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- `ports.conf` is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.
- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.
- They are activated by symlinking available configuration files from their respective `*-available/` counterparts. These should be managed by using our helpers `a2enmod`, `a2dismod`, `a2ensite`, `a2dissite`, and `a2enconf`, `a2disconf`. See their respective man pages for detailed information.
- The binary is called `apache2`. Due to the use of environment variables, in the default configuration, `apache2` needs to be started/stopped with `/etc/init.d/apache2` or `apache2ctl`. **Calling `/usr/bin/apache2` directly will not work** with the default configuration.

	Procédure d'Exploitation	Configurer Apache
---	-------------------------------------	-------------------

Maintenant il faut configurer les adresses IP des serveurs apache comme ceci :

Serveur 1 :

```
root@SRV-DEBIAN-01:~# nano /etc/network/interfaces_
```

```

GNU nano 5.4 /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug enp0s3
iface enp0s3 inet static
address 192.168.30.2
netmask 255.255.255.0
gateway 192.168.30.254

[ Lecture de 15 lignes ]
^G Aide      ^O Écrire    ^W Chercher  ^K Couper    ^T Exécuter  ^C EmplacementM-U Annuler
^X Quitter   ^R Lire fich.^N Remplacer ^U Coller    ^J Justifier ^_ Aller ligneM-E Refaire

```

Il faut enregistrer puis redémarrer le service

```
root@SRV-DEBIAN-01:~# systemctl restart networking.service_
```

puis quand cela est fait activer l'interface réseau .

```
root@SRV-DEBIAN-01:~# ifup enp0s3
```

	Procédure d'Exploitation	Configurer Apache
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Pour voir si les changements ont été appliqué :

```
root@SRV-DEBIAN-01:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:c5:fa:bd brd ff:ff:ff:ff:ff:ff
    inet 192.168.30.2/24 brd 192.168.30.255 scope global enp0s3
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fec5:fabd/64 scope link
        valid_lft forever preferred_lft forever
root@SRV-DEBIAN-01:~# _
```

Serveur 2 :

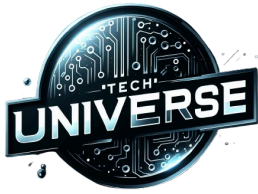
```
GNU nano 5.4 /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug enp0s3
iface enp0s3 inet static
address 192.168.30.3
netmask 255.255.255.0
gateway 192.168.30.254

[ Lecture de 15 lignes ]
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```



Procédure d'Exploitation

Configurer Apache

Serveur Web Apache2 [En fonction] - Oracle VM VirtualBox

Fichier Machine Écran Entrée Périphériques Aide

```
netmask 255.255.255.0  
gateway 192.168.30.254
```

```
root@SRV-DEBIAN-01:~# ip a  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host  
        valid_lft forever preferred_lft forever  
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000  
    link/ether 08:00:27:c1:85:fc brd ff:ff:ff:ff:ff:ff  
    inet 192.168.30.3/24 brd 192.168.30.255 scope global enp0s3  
        valid_lft forever preferred_lft forever  
    inet6 fe80::a00:27ff:fec1:85fc/64 scope link  
        valid_lft forever preferred_lft forever  
root@SRV-DEBIAN-01:~# _
```