Content Table

Labo 1

Config VM

Operating system : `Windows Server 2016`
Virtual machine name : `SRW3`
Live other param by default
In customize hardware, remove **sound card** and **printer**

Config Windows

System : `Windows Server 2016 V1607 (OS Build 14393.447)`
Langage : `english-US`
Time format : `US`
Keyboard : `Swiss French`
Windows Key : `WC2BQ-8NRM3-FDDYY-2BFGV-KHKQY`
System : `Windows server 2016 (Desktop Experience)`
Installation : `Custom`

Install IIS 10

On dashboard, choose **Add roles and features**
Select server roles `Web Server (IIS)`
No change in Features
On Role Services, choose in Application Developement :
![Services List](i mg/lab1/IIS/Screenshot_1.png)
Finish installation

Config IIS 10

Go on **Internet Information Services (IIS) Manager**
![IIS console](i mg/lab1/IIS/Screenshot_2.png)

Disabled default site : **WIN-XXX...** -> **Sites** -> **Default Web Site** -> right clic -> **Manage** -> **Stop**

Add new site : **WIN-XXX...** -> **Sites** -> right clic -> **Add Website**

Fill like this :
![Config site](i mg/lab1/IIS/Screenshot_3.png)

Clic on the new site **Site IIS** -> **Default Document** and add new default document `iis.html`

Next go on **C:\iis_www** and add new file `iis.html` and paste `"MON Site IIS"` into

Add new **Inbound Rules** in firewall to **Port** `8080`

Install PHP

Create folder `PHP7.4.2` in **C:**

Go on https://windows.php.net/download/ and download PHP 7.4.2 in zip format
Extract content of zip in **C:\PHP7.4.2** folder

Go on https://aka.ms/vs/16/release/vc_redist.x64.exe and execute the exe file

Next go back on **Internet Information Services (IIS) Manager** -> **WIN-XXX...** and choose **Handler Mappings**
Add new mapping
![add mapping](i mg/lab1/php/Screenshot_1.png)
Fill content with the same configuration
![add mapping](i mg/lab1/php/Screenshot_2.png)

Restart site : **WIN-XXX...** -> **Sites** -> **Site IIS** -> right clic -> **Manage** -> **Restart**

Next go on **C:\iis_www** and add new file `index.php` and paste `<?php phpinfo() ?>` into

Add Auth

Install Server Roles `Active Directory Domain Services`
Show warning message et clic on `Promote this ...`
![promotion](i mg/lab1/auth/Screenshot_1.png)
Add a new forest `srw3.local`
Check form is same (you choose password) :
![promotion](i mg/lab1/auth/Screenshot_2.png)
After just go of end of config and finish installation

Add `Windows Authentification` on **Manage** -> **Add Roles and Features**
![promotion](i mg/lab1/auth/Screenshot_3.png)

Next Go on **Internet Information Services (IIS) Manager** -> **WIN-XXXX...** and select **Authentification** on IIS
Disabled all and Enable **Windows Authentification**

FTP

First, install Server Roles `FTP`
![promotion](i mg/lab1/ftp/Screenshot_1.png)

On confirmation page, active `Restart the dest...` and finish installation

Reload **Internet Information Services (IIS) Manager** and add FTP site :
![promotion](i mg/lab1/ftp/Screenshot_2.png)

Field form with `FTP IIS` for the name and site folder `C:\iis_www` for physical path

Check you are the same information :
![promotion](i mg/lab1/ftp/Screenshot_3.png) ![promotion](i mg/lab1/ftp/Screenshot_4.png)

Apply change and restart **FTPSVC Services** on Task Manager
![promotion](i mg/lab1/ftp/Screenshot_5.png)

Backup

Add new feature `Windows Server Backup`
![promotion](i mg/lab1/backup/Screenshot_1.png)
On confirmation page, active `Restart the dest...` and finish installation

Next shut down the VM and add new disk with 1GB

Restart VM and open **Disk Management** console

Set the new disk on Online and Initialize it
![promotion](i mg/lab1/backup/Screenshot_2.png) ![promotion](i mg/lab1/backup/Screenshot_3.png)

Create simple partition
![promotion](i mg/lab1/backup/Screenshot_4.png)
with max size, use `B` for drive letter, named volume `Backup` and finish configuration

Go on **Windows Server Backup** console and clic on **Backup Shedule...** : ![promotion](i mg/lab1/backup/Screenshot_5.png)

On **Select Backup Config...** choose `Custom`
On **Select Items for Backup** add `"C:\iis_www\` et `C:\Windows\System32\inetsrv\config\` :
![promotion](i mg/lab1/backup/Screenshot_6.png)

Backup up to a volume and select `Backup (B:)`
Check you have the same informations :
![promotion](i mg/lab1/backup/Screenshot_7.png)
Finish configuration

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Labo 2

Before start, disabled all active sites in **Internet Information Services (IIS) Manager** -> **WIN-XXX...** -> **Sites**

Exe 1

Run this in **cmd** :

```
md C:\SRW\Site01\ C:\SRW\repvirtuel\ && echo "indexsite01" >
C:\SRW\Site01\indexsite01.html && echo "indexvirtuel" >
C:\SRW\repvirtuel\indexvirtuel.html
```

On **Internet Information Services (IIS) Manager** -> **WIN-XXX...** -> **Sites** -> right click -> **Add Website...**, fill with the same config :
![promotion](i mg/lab2/exe1/Screenshot_1.png)

Choose **Site01 ...** and open **Advanced Settings...** and change **ID** by 31 and close Open **Default Document** and remove all Add default document indexsite01.html

Next go on **Directory Browsing** and enable
![promotion](i mg/lab2/exe1/Screenshot_2.png)
![promotion](i mg/lab2/exe1/Screenshot_3.png)

Right click on site and choose **Add Virutal Directory...**
![promotion](i mg/lab2/exe1/Screenshot_4.png)
And fill like this :
![promotion](i mg/lab2/exe1/Screenshot_5.png)

Exe 2

Run this in **cmd** on admin mode :

```
md C:\SRW\Site02\ && echo "indexsite02" > C:\SRW\Site02\indexsite02.html

cd C:\Windows\System32\inetsrv

appcmd add site /name:"Site02 du Module SRW" /id:32 /physicalPath:C:\SRW\Site02
/bindings:http/*:8888:

appcmd set config "Site02 du Module SRW" /section:defaultDocument /~files"

appcmd set config "Site02 du Module SRW" /section:defaultDocument /+files.
[value='indexsite02.html']

appcmd set config "Site02 du module SRW" /section:directoryBrowse /enabled:true

appcmd add vdir /app.name:"Site02 du Module SRW/" /path:/test2
```

```
/physicalPath:C:\SRW\repvirtuel

netsh advfirewall firewall add rule name="Port 8888" protocol=TCP dir=in
localport=8888 action=allow
```

Exe 3

Run this in **cmd** :

```
md C:\SRW\Site03\ && echo "indexsite03" > C:\SRW\Site03\indexsite03.html && echo
"" > C:\SRW\Site03\web.config
```

Next open **C:\Windows\System32\inetsrv\config\applicationHost config** and add between ... :

````
```xml
<site name="Site03 du Module SRW" id="33" serverAutoStart="true">
    <application path="/">
        <virtualDirectory path="/" physicalPath="C:\SRW\Site03" />
        <virtualDirectory path="/test3" physicalPath="C:\SRW\repvirtuel" />
    </application>
    <bindings>
        <binding protocol="http" bindingInformation="*:8880:" />
    </bindings>
</site>
```
````

Save and quit file

Open **C:\SRW\Site03\web.config** and paste :

````
```xml
<site name="Site03 du Module SRW" id="33" serverAutoStart="true">
    <application path="/">
        <virtualDirectory path="/" physicalPath="C:\SRW\Site03" />
        <virtualDirectory path="/test3" physicalPath="C:\SRW\repvirtuel" />
    </application>
    <bindings>
        <binding protocol="http" bindingInformation="*:8880:" />
    </bindings>
</site>
```
````

Save and quit

Run this in **cmd** on admin mode :

```
netsh advfirewall firewall add rule name="Port 8880" protocol=TCP dir=in
localport=8880 action=allow
```

Exe 4

Show available sites :

```
appcmd list sites
```

Show sites with port **8080** :

```
appcmd list sites /bindings:http/*:8080:
```

Stop site with port **8080** :

```
appcmd list site /bindings:http/*:8080: /xml | appcmd stop site /in
```

Start site with port **8080** :

```
appcmd list site /bindings:http/*:8080: /xml | appcmd start site /in
```

Remove virtual repository **test1** from **site01** :

```
appcmd delete vdir /vdir.name:"Site01 du module SRW/test1"
```

Backup IIS config :

```
appcmd add backup monbackup
```

Remove site **Site01** :

```
appcmd delete site "Site02 du module SRW"
```

Restore preview backup on IIS config :

```
appcmd restore backup monbackup
```

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Labo 3