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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

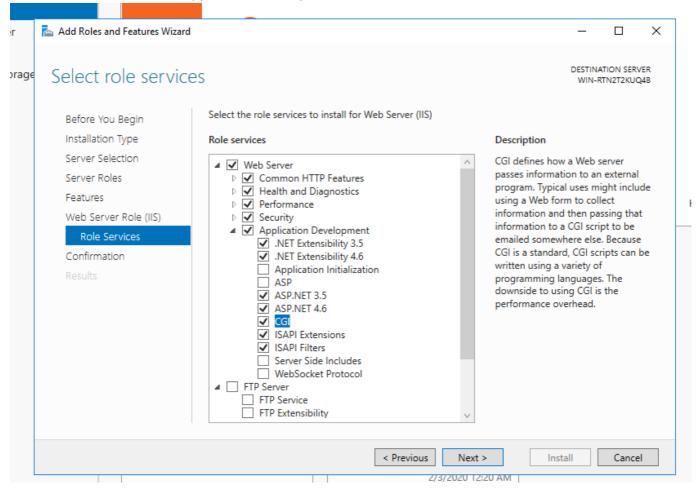
Install IIS 10

On dashboard, choose Add roles and features

Select server roles Web Server (IIS)

No change in Features

On Role Services, choose in Application Developement :

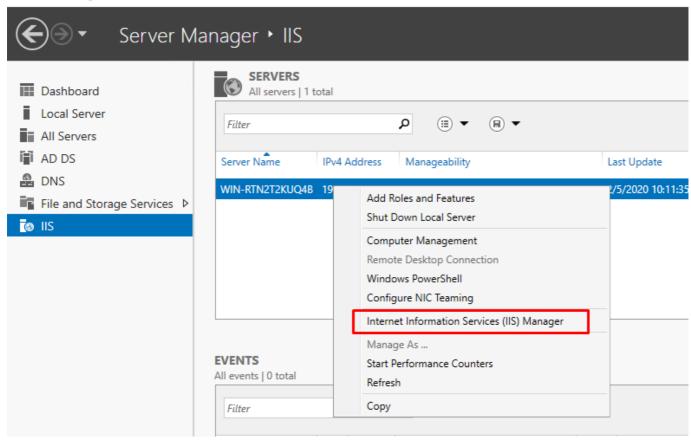


Finish installation

Config IIS 10

Go on Internet Information Services (IIS) Manager

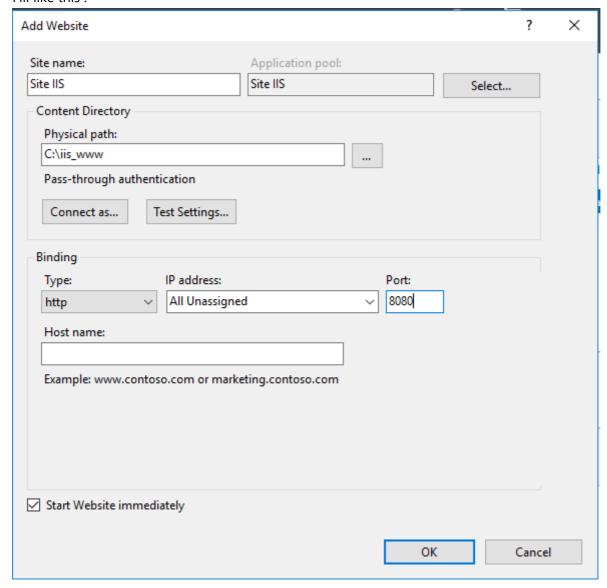




Disabled default site: WIN-XXX... -> Sites -> Default Web Site -> right clic -> Manage -> Stop

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

Fill like this:



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

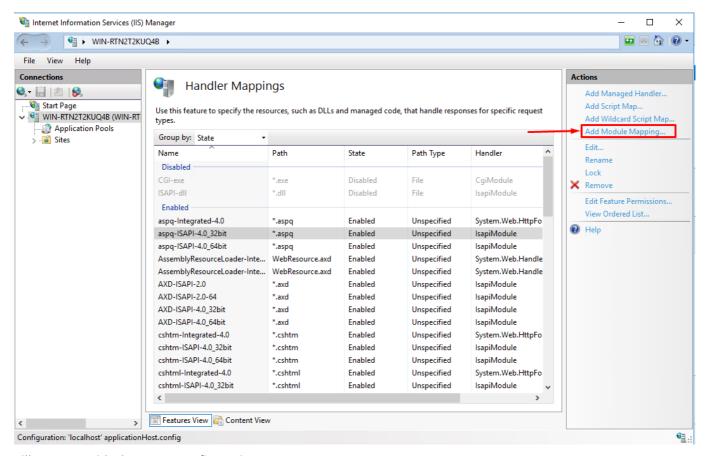
Create folder PHP7.4.2 in C:\

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

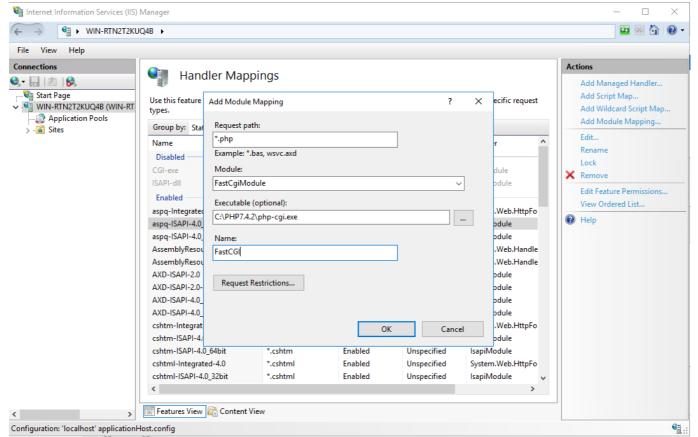
Go on https://aka.ms/vs/16/release/vc_redist.x64.exe and execute the exe file

Next go back on Internet Information Services (IIS) Manager -> WIN-XXX... and choose Handler Mappings

Add new mapping



Fill content with the same configuration



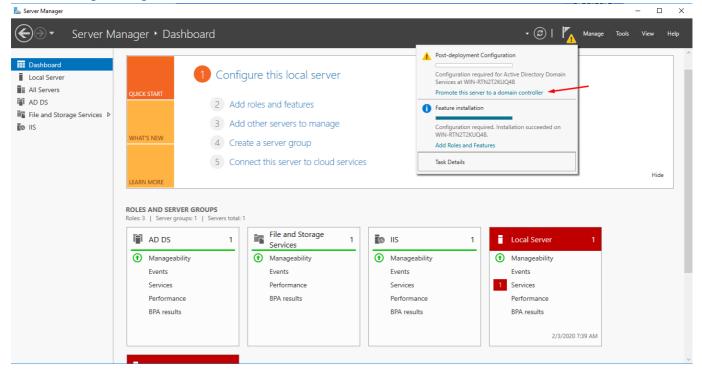
Restart site: WIN-XXX... -> Sites -> Site IIS -> right clic -> Manage -> Restart

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

Add Auth

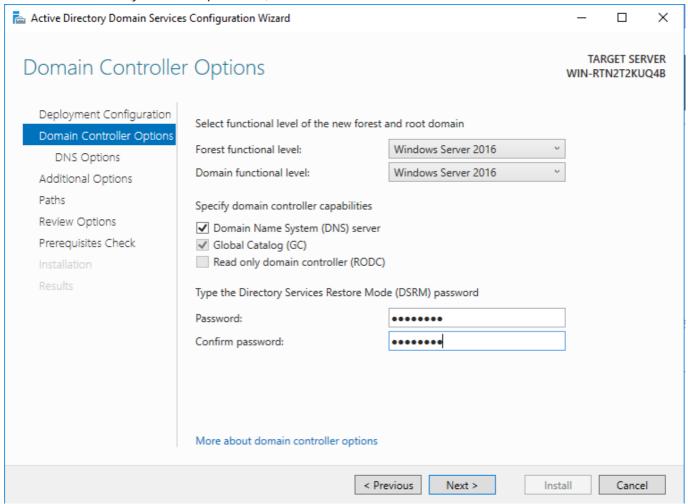
Install Server Roles Active Directory Domain Services

Show warning message et clic on Promote this ...



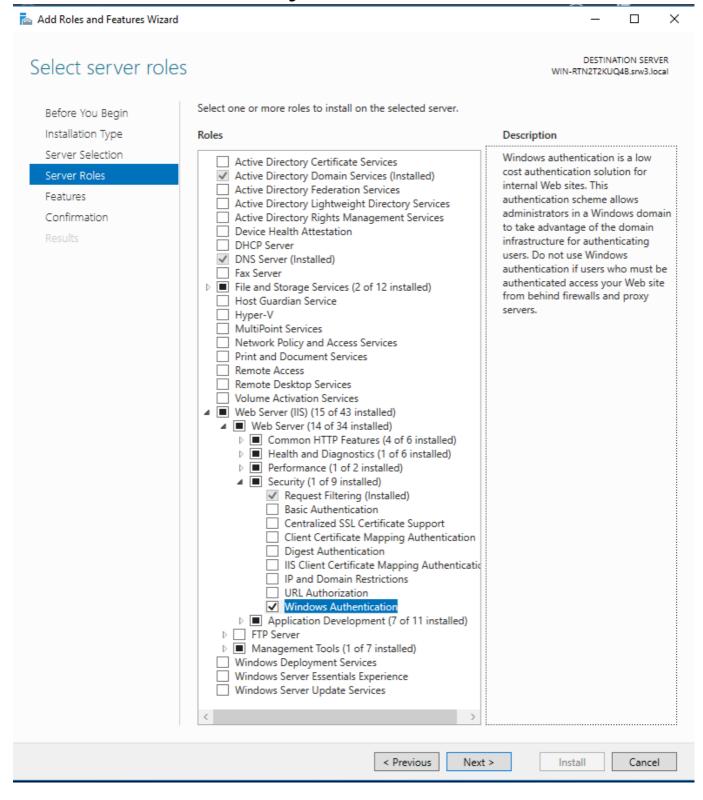
Add a new forest srw3.local

Check form is same (you choose password):



After just go of end of config and finish installation

Add Windows Authentification on Manage -> Add Roles and Features

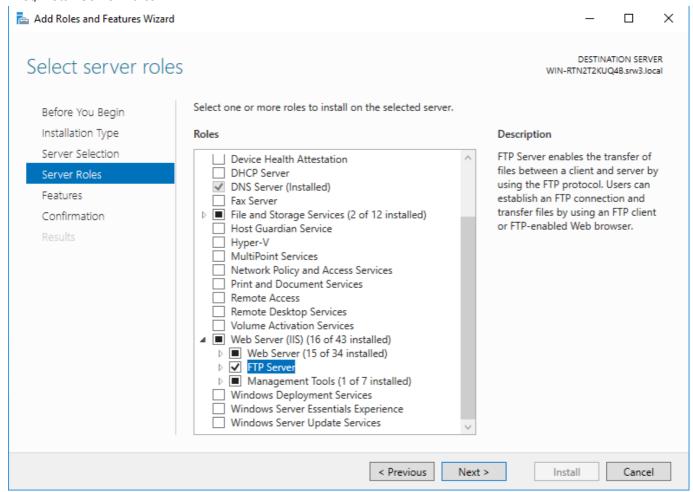


Next Go on Internet Information Services (IIS) Manager -> WIN-XXXX... and select Authentification on IIS

Disabled all and Enable Windows Authentification

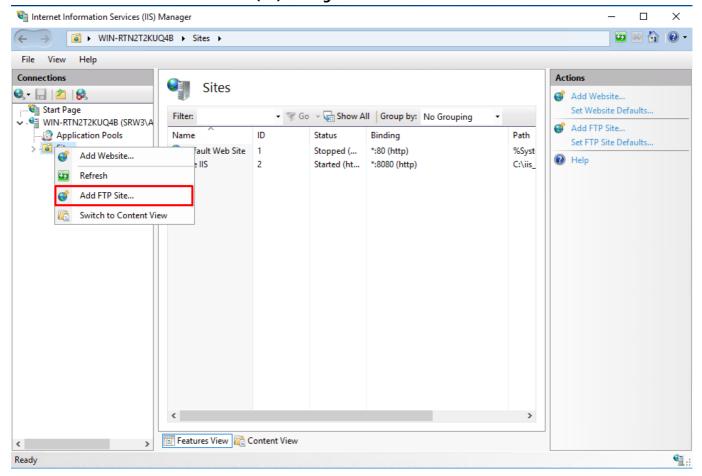
FTP

First, install Server Roles FTP



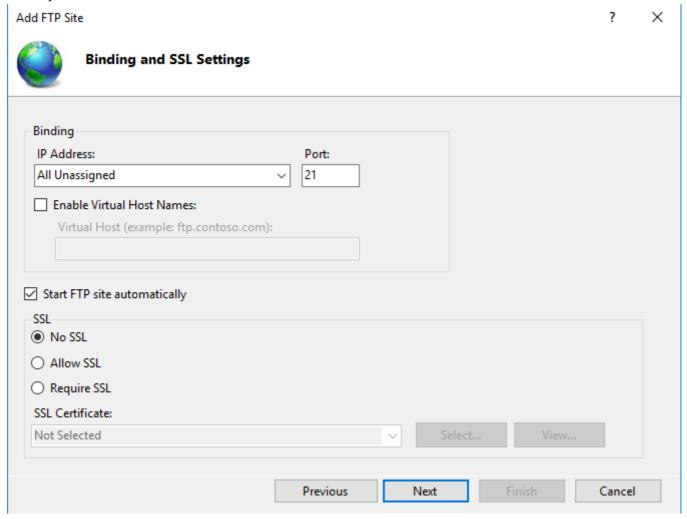
On confirmation page, active Restart the dest... and finish installation

Reload Internet Information Services (IIS) Manager and add FTP site:



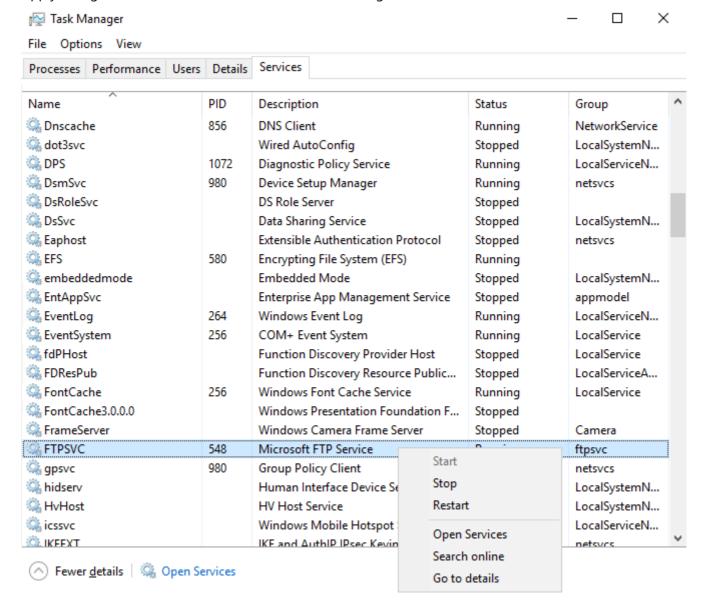
Field form with FTP IIS for the name and site folder C:\iis_www for physical path

Check you are the same information:



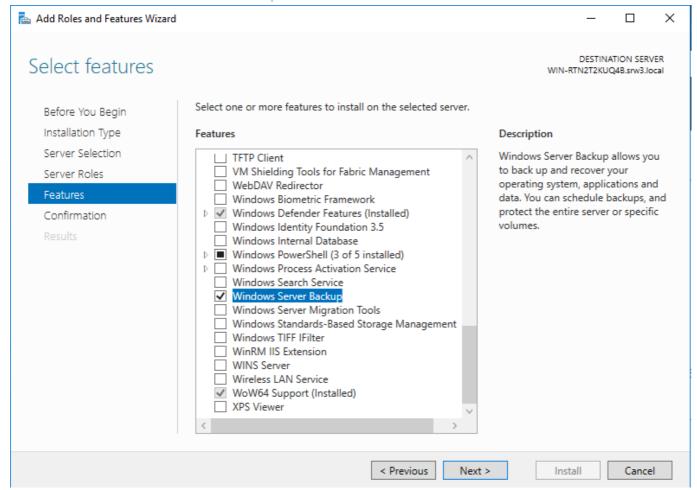
Add FTP Site ? X **Authentication and Authorization Information** Authentication Anonymous ✓ Basic Authorization Allow access to: All users ~ Permissions ✓ Read ✓ Write Finish Previous Cancel

Apply change and restart FTPSVC Services on Task Manager



Backup

Add new feature Windows Server Backup

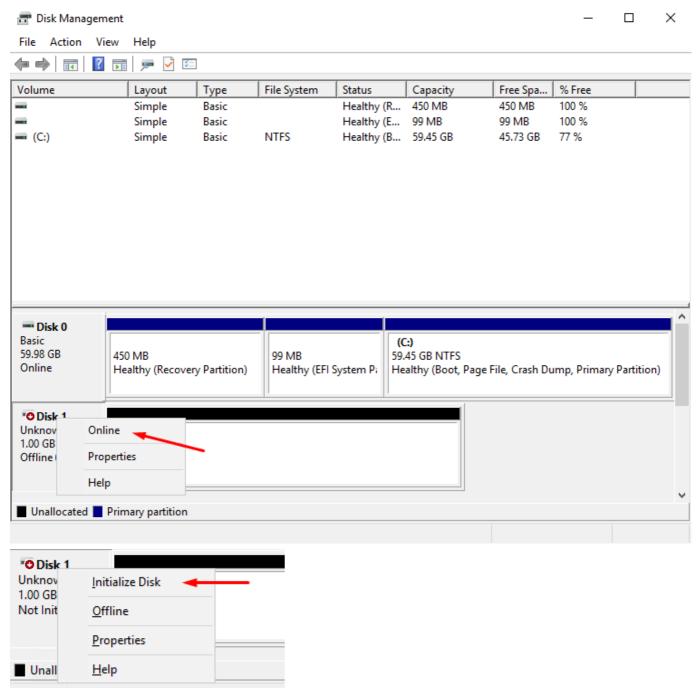


On confirmation page, active Restart the dest... and finish installation

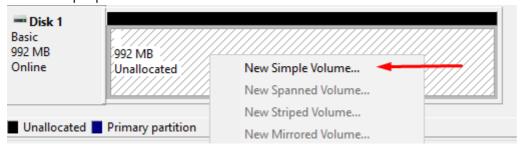
Next shut down the VM and add new disk with 1GB

Restart VM and open **Disk Management** console

Set the new disk on Online and Initialize it

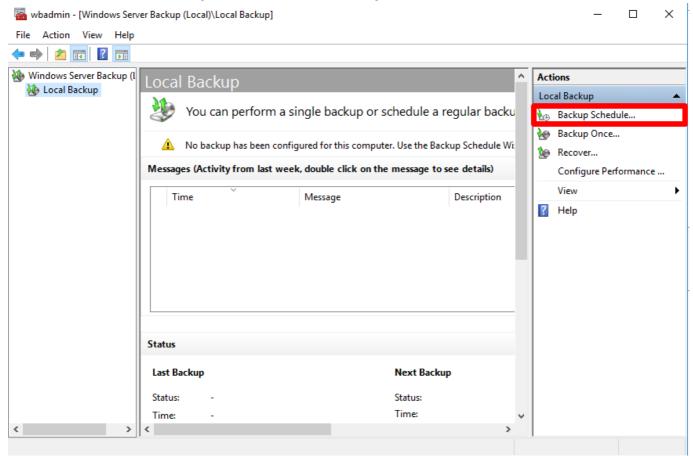


Create simple partition



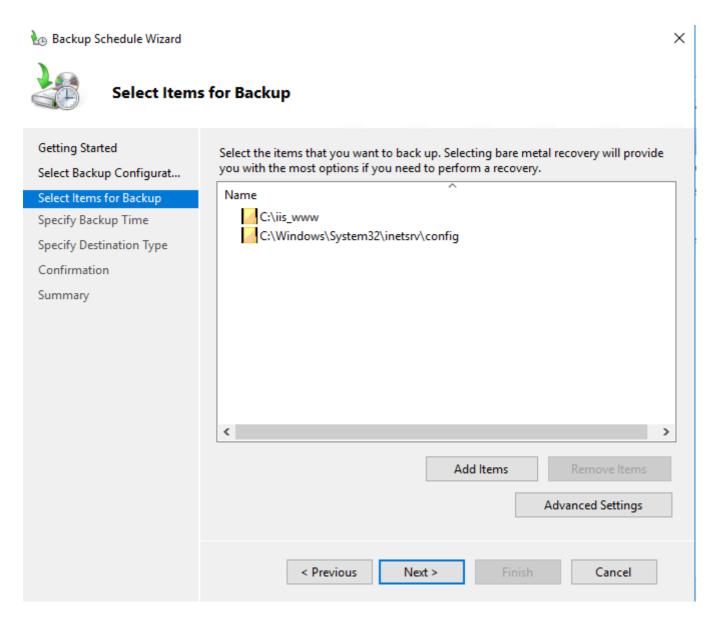
with max size, use B for drive letter, named volume Backup and finish configuration

Go on Windows Server Backup console and clic on Backup Shedule...:

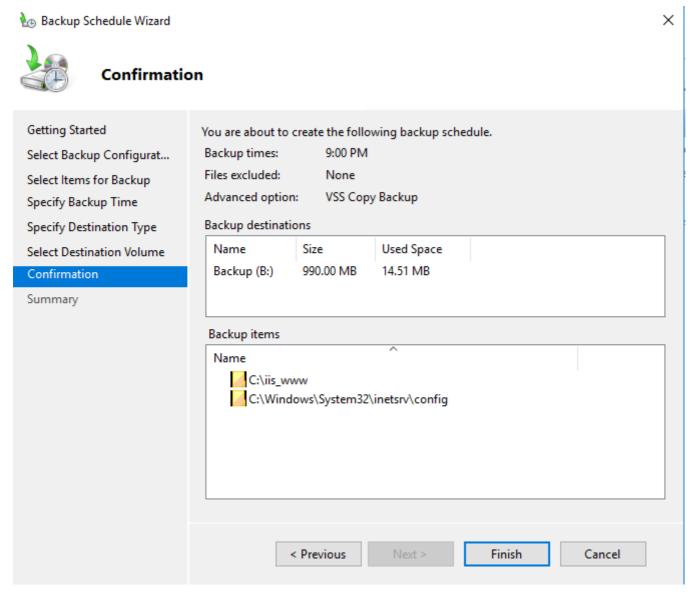


On Select Backup Config... choose Custom

On **Select Items for Backup** add "C:\iis_www\ et C:\Windows\System32\inetsrv\config\:



Backup up to a volume and select Backup (B:) Check you have the same informations:



Finish configuration

Content Table

Labo 2

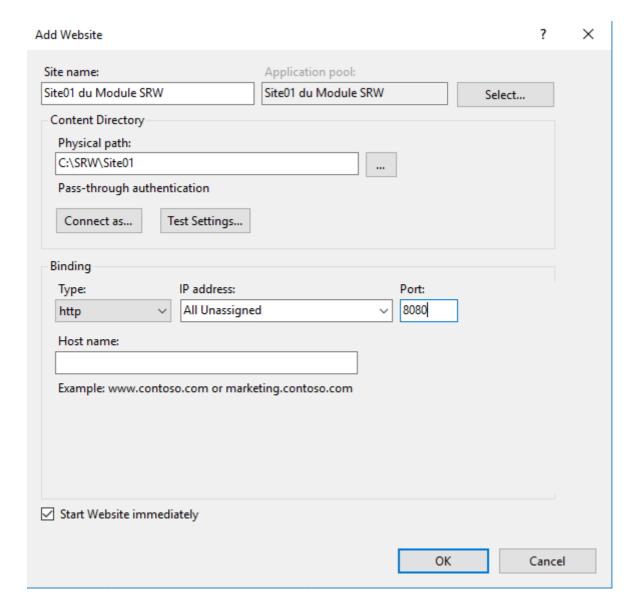
Before start, disabled all active sites in Internet Information Services (IIS) Manager -> WIN-XXX... -> Sites

Exe 1

Run this in cmd:

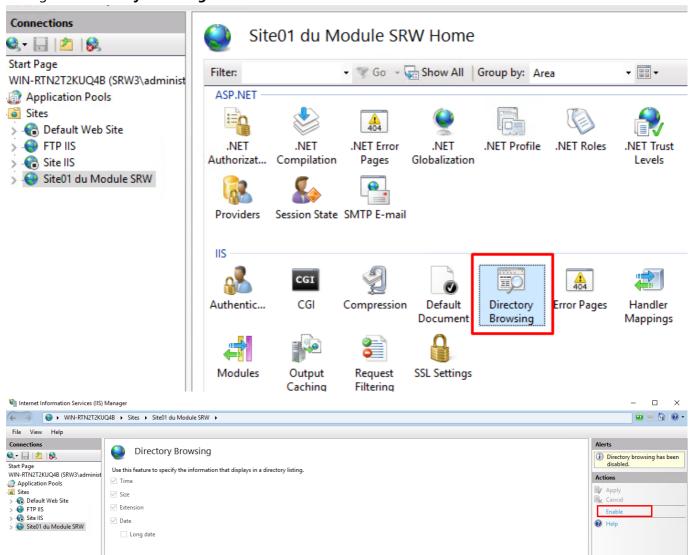
```
md C:\SRW\Site01\ C:\SRW\repvirtuel\ && echo "indexsite01" >
C:\SRW\Site01\indexsite01.html && echo "indexvirtuel" >
C:\SRW\repvirtuel\indexvirtuel.html
```

On Internet Information Services (IIS) Manager -> WIN-XXX... -> Sites -> right click -> Add Website..., fill with the same config :

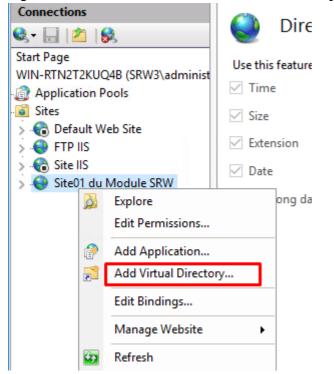


Choose **Site01** ... and open **Advanced Settings**... and change **ID** by 31 and close Open **Default Document** and remove all Add default document indexsite01.html

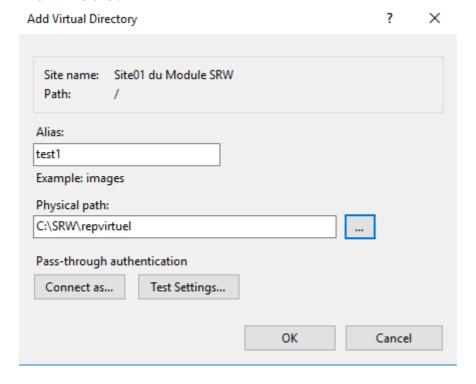
Next go on **Directory Browsing** and enable



Right click on site and choose Add Virutal Directory...



And fill like this:



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\application\Host config and add between ...:

Save and quit file

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

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

Content Table

Labo 3

Add new site

Run in cmd:

```
md C:\SRW\labo\Private\ C:\SRW\labo\Public\ && echo "labo" >
C:\SRW\labo\Private\private.html && echo "private" > C:\SRW\labo\Private\private.html && echo
"public" > C:\SRW\labo\Public\public.html
cd C:\Windows\System32\inetsrv
appcmd list site /xml /state:"$=started" | appcmd stop site /in
appcmd add site /name:"labo du Module SRW" /id:41 /physicalPath:C:\SRW\labo
/bindings:http/*:80:
appcmd set config "labo du Module SRW" /section:defaultDocument /~files"
appcmd set config "labo du Module SRW" /section:defaultDocument /+files.
[value='labo.html']
appcmd set config "labo du Module SRW/Private" /section:defaultDocument /~files"
appcmd set config "labo du Module SRW/Private" /section:defaultDocument /+files.
[value='private.html']
appcmd set config "labo du Module SRW/Public" /section:defaultDocument /~files"
appcmd set config "labo du Module SRW/Public" /section:defaultDocument /+files.
[value='public.html']
appcmd set config "labo du Module SRW" /section:directoryBrowse /enabled:true
```

Test site

Test access (where IP is Server address):

```
http://192.168.119.141 => access granted
http://192.168.119.141/public => access granted
http://192.168.119.141/private => access granted
```

Config rules

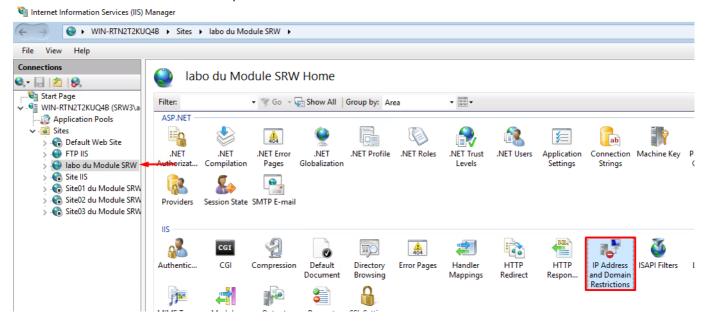
Open Server Manager console and choose Add Roles and Features

Go to Server Roles -> Web Server (IIS) -> Web Server -> Security

Check IP and Domain Restrictions and finish installation

Next open Internet Information Services (IIS) Manager

Select labo du Module SRW and open IP Address and Domaine Restrictions



Choose Add Deny Entry... and write IP of WMvare Network adapter (192.168.119.1 for me)

Test site

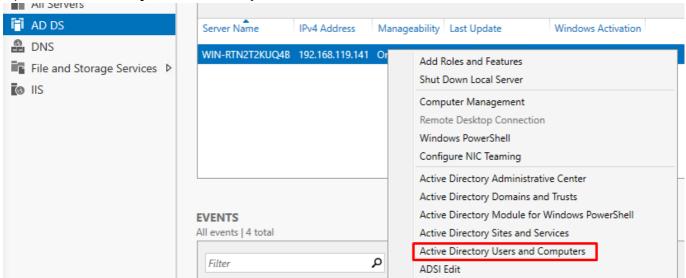
Test access (where IP is Server address):

http://192.168.119.141 => access denied http://192.168.119.141/public => access denied http://192.168.119.141/private => access denied

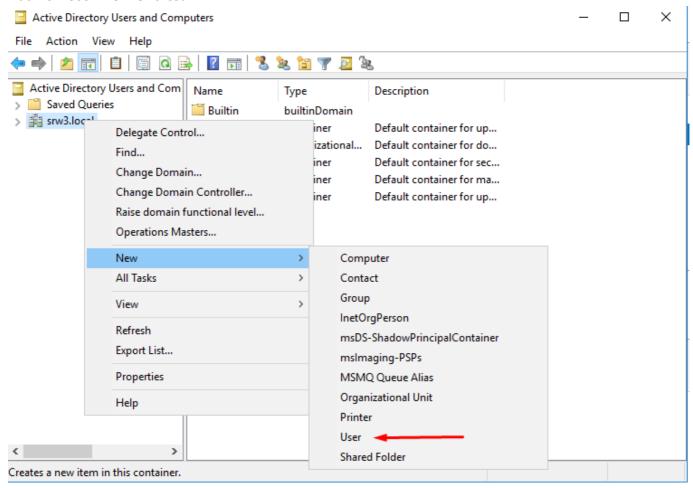
Config Auth

Remove deny IP previously added

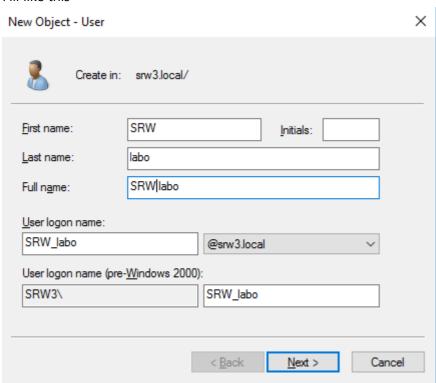
Open Active Directory Users and Computers

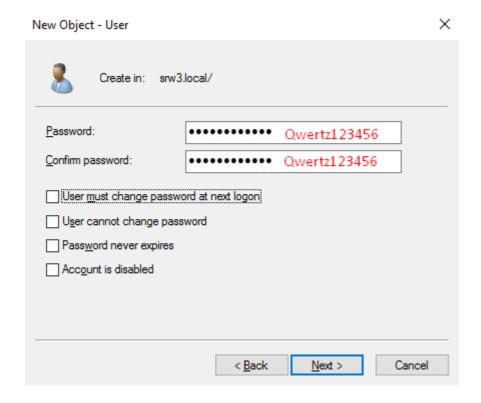


Add new User in srw3 forest



Fill like this



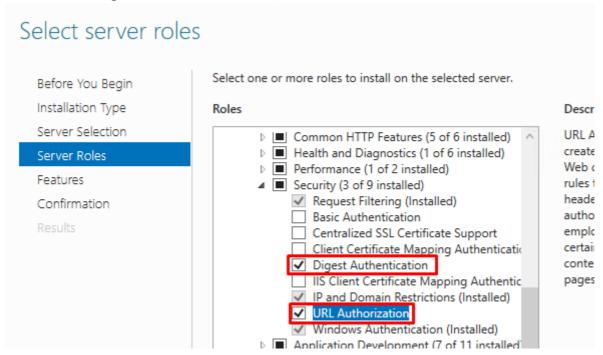


Repeat with another new user named SRW_private with password Qwertz123456

Go on Internet Information Services (IIS) Manager -> WIN-XXX... -> Sites -> labo du Module SRW -> Authentification

Enable and edit Anonymous Authentification and set the new user SRW_labo to the specic user

On **Server Management**, add new roles Digest Authentification an URL Authorization



Open site labo du Module SRW, select Private and choose Authentification

Enable Disgest Authentification and Windows Authentification, disable others

Edit Disgest Authentification and add srw3.local

Open Authorization Rules and edit the rule

Change To specific users SRW_private

Restart site labo du Module SRW

Test

Test access (where IP is Server address):

http://192.168.119.141 => access granted

http://192.168.119.141/public => access granted

http://192.168.119.141/private => authentification required, granted with

SRW_private user

Content Table

Lab 4

Stop the machine and edit th config

Check the **Network adapter** is: NAT

Add new network adapter Network adapter 2 and define it: Bridged

Start server

Open Active Directory User and Computer -> srw3.local -> Users

Add 4 groups: Directeurs, Ingénieurs, Comptables, Clients

