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## Labo 1

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### 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**

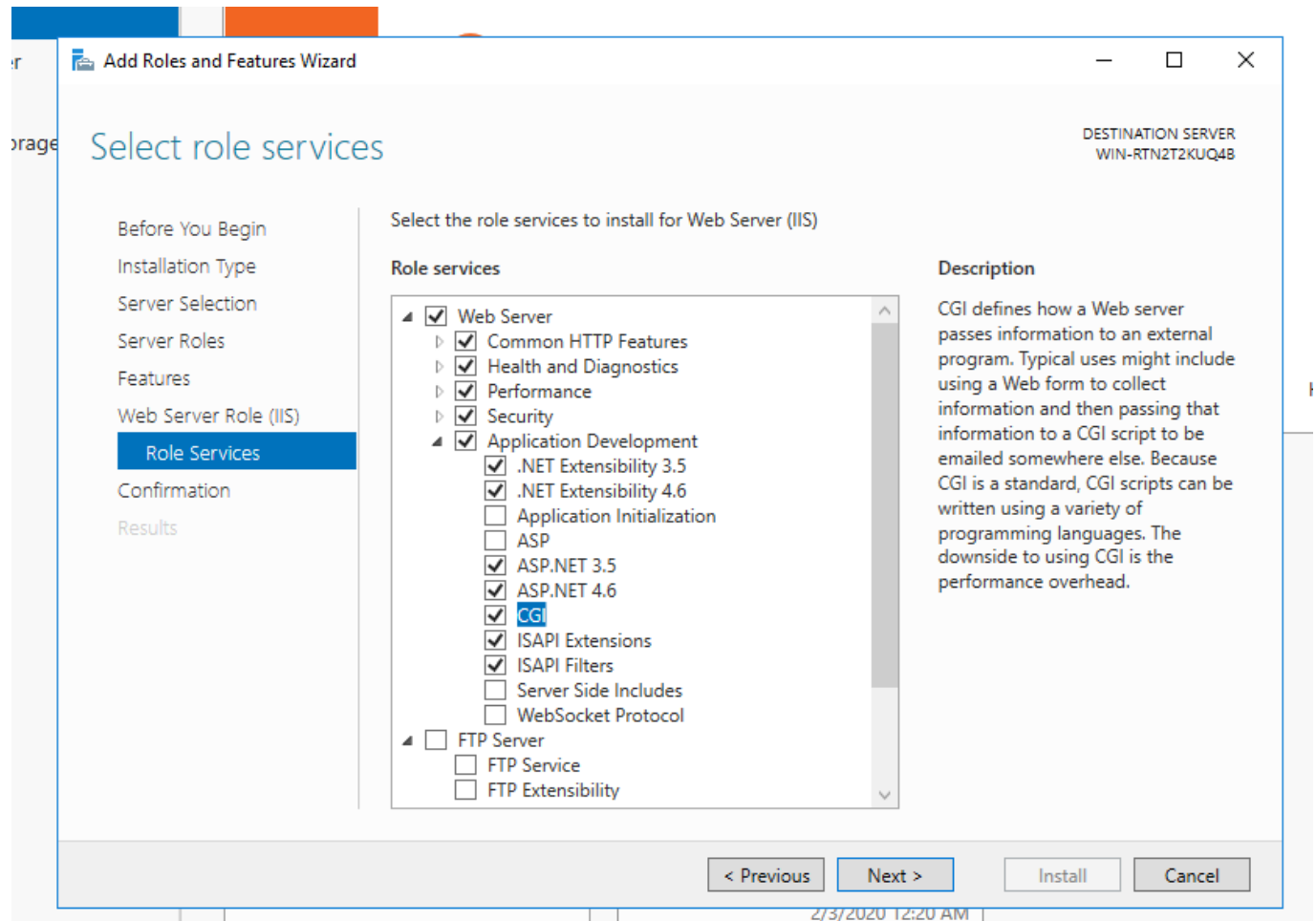
### Install IIS 10

On dashboard, choose **Add roles and features**

Select server roles **Web Server (IIS)**

No change in Features

On Role Services, choose in Application Developement :

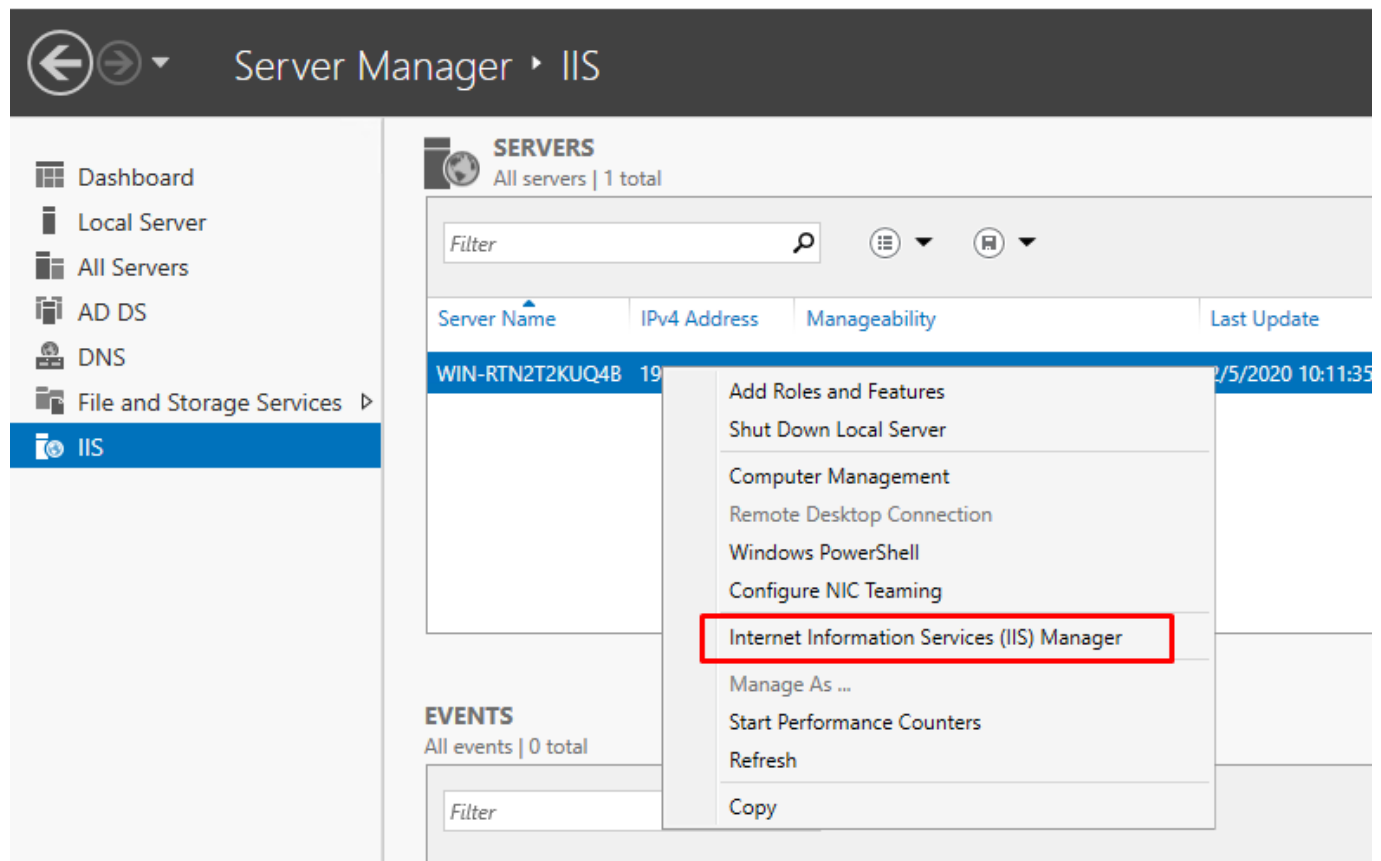


Finish installation

## Config IIS 10

Go on **Internet Information Services (IIS) Manager**

Server 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 :

The screenshot shows the 'Add Website' dialog box with the following configuration:

- Site name:** Site IIS
- Application pool:** Site IIS
- Content Directory:**
  - Physical path:** C:\iis\_www
  - Pass-through authentication:** (unchecked)
  - Buttons:** Connect as..., Test Settings...
- Binding:**
  - Type:** http
  - IP address:** All Unassigned
  - Port:** 8080
  - Host name:** (empty)
  - Example:** www.contoso.com or marketing.contoso.com
- Start Website immediately:** ☒
- Buttons:** OK, Cancel

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:\**

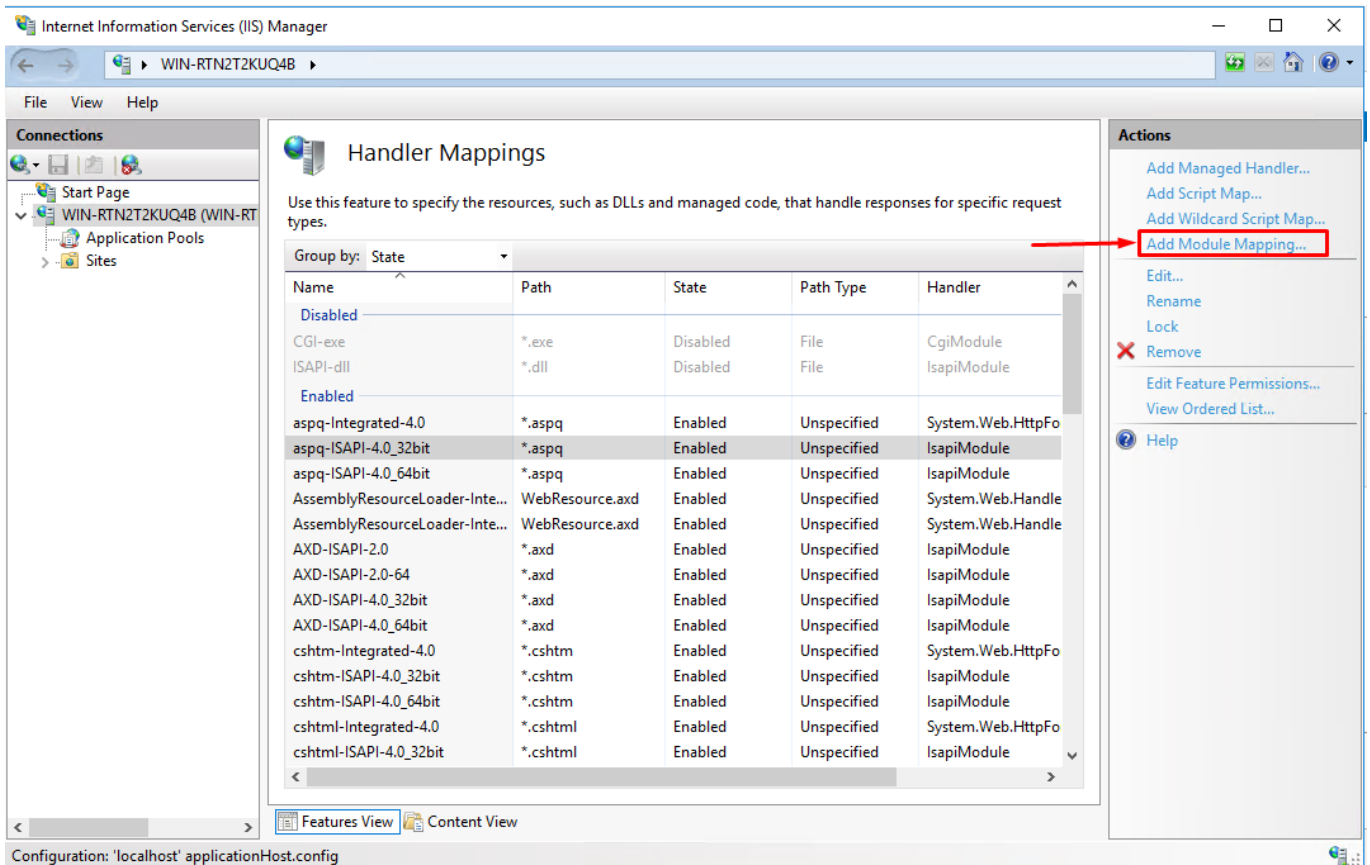
Go on <https://windows.php.net/download/> and download PHP 7.4.2 in zip format

Extract content of zip in **C:\PHP7.4.2\** folder

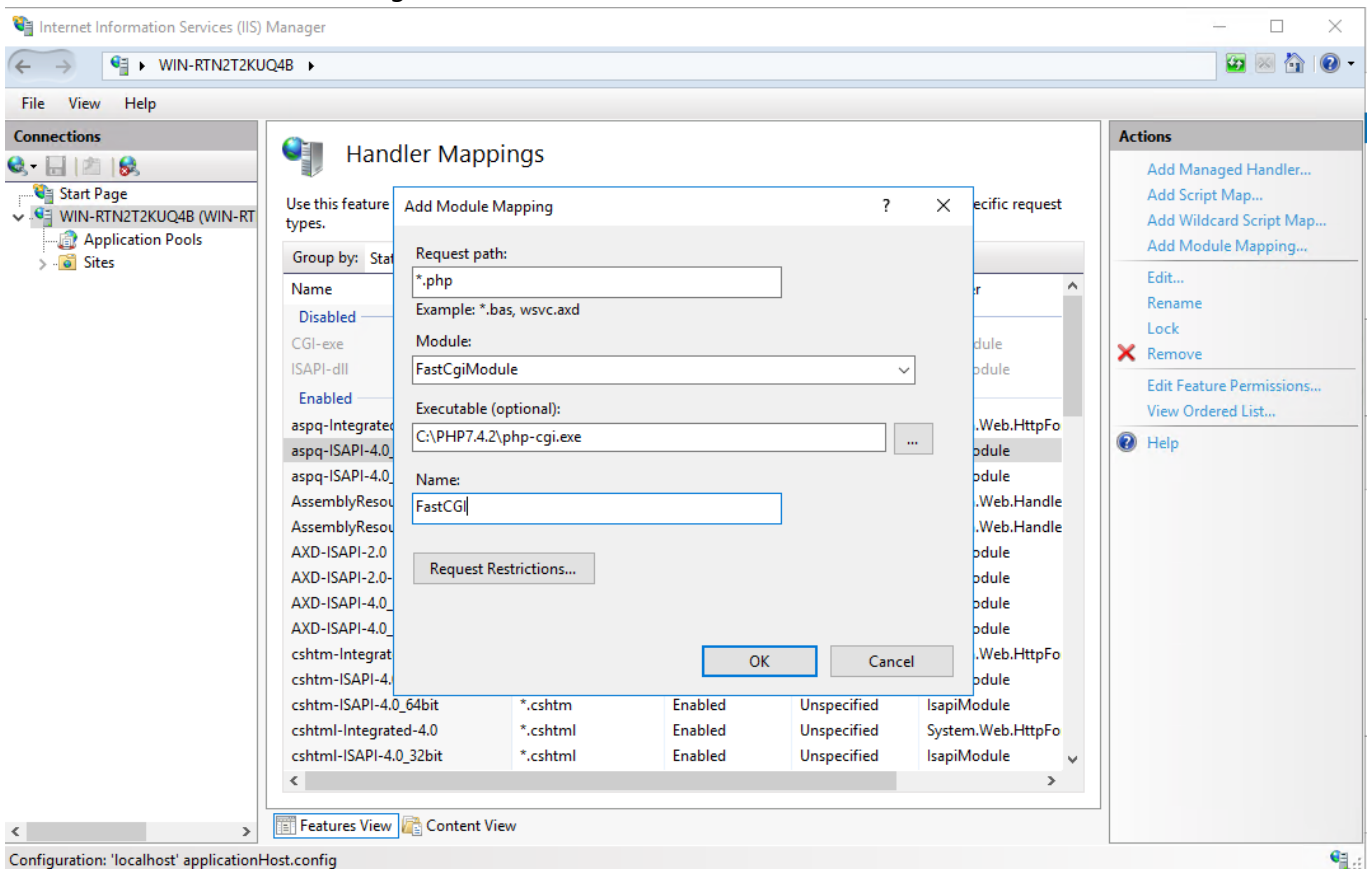
Go on [https://aka.ms/vs/16/release/vc\\_redist.x64.exe](https://aka.ms/vs/16/release/vc_redist.x64.exe) and execute the exe file

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

Add new mapping



Fill content with the same configuration



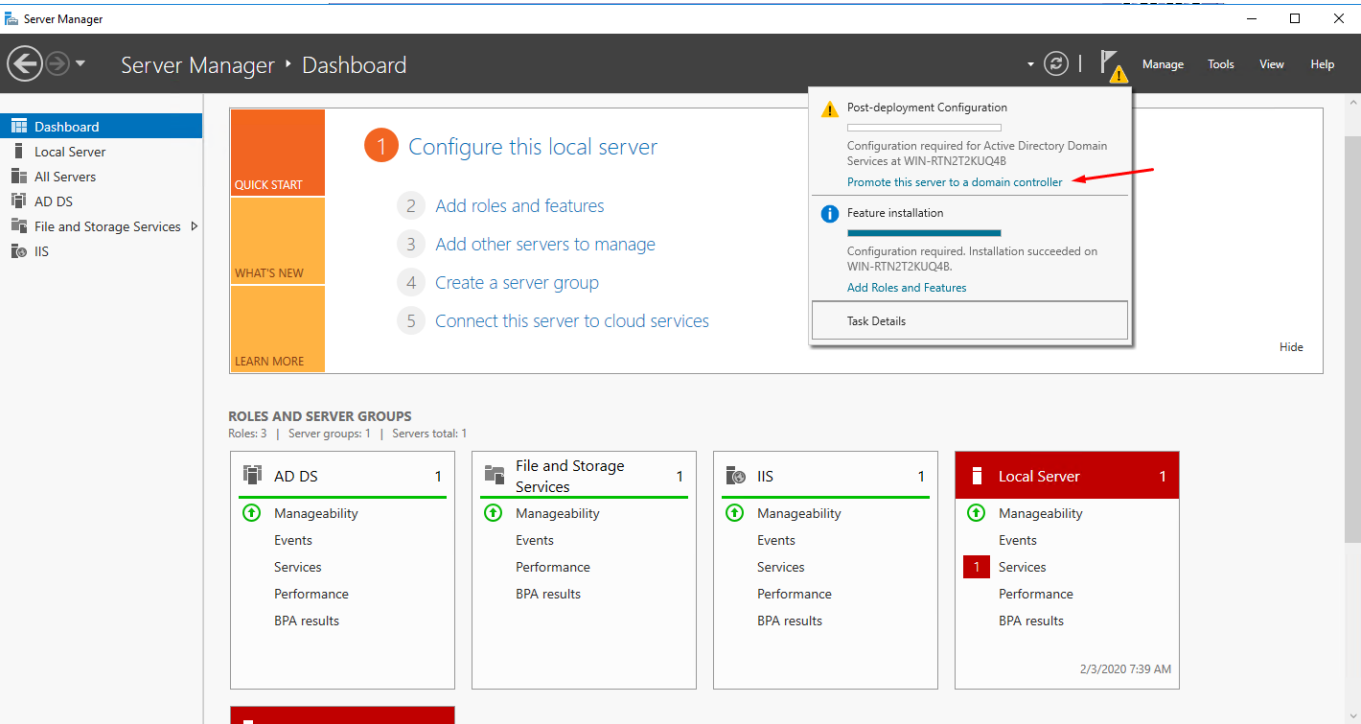
Restart site : WIN-XXX... -> **Sites** -> **Site IIS** -> right clic -> **Manage** -> **Restart**

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

Add Auth

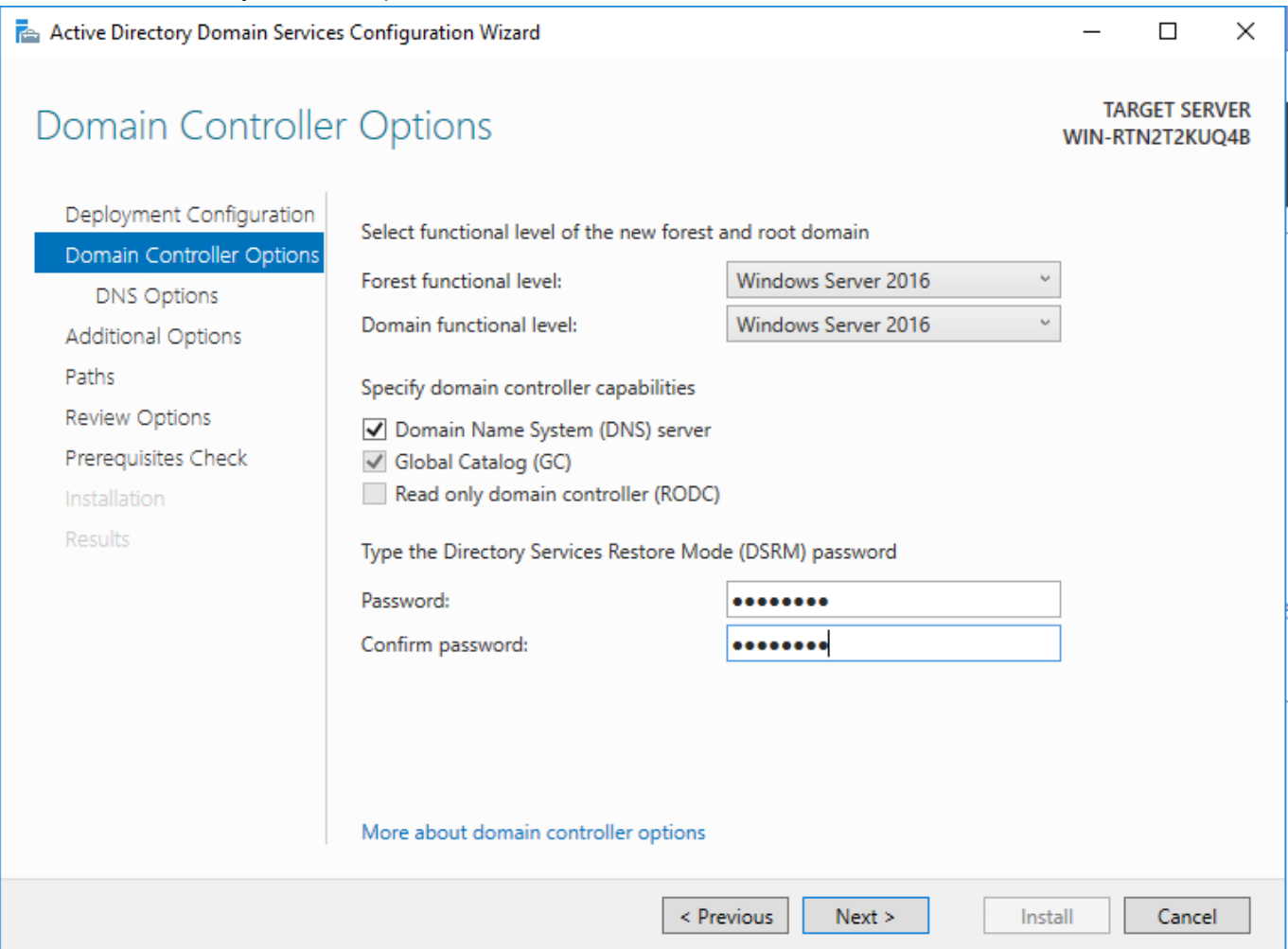
Install Server Roles **Active Directory Domain Services**

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 Authentication** on **Manage** -> **Add Roles and Features**

Add Roles and Features Wizard

Select server roles

DESTINATION SERVER  
WIN-RTN2T2KUQ4B.srv3.local

Before You Begin  
Installation Type  
Server Selection  
**Server Roles**  
Features  
Confirmation  
Results

Select one or more roles to install on the selected server.

Roles	Description
<input type="checkbox"/> Active Directory Certificate Services	Windows authentication is a low cost authentication solution for internal Web sites. This authentication scheme allows administrators in a Windows domain to take advantage of the domain infrastructure for authenticating users. Do not use Windows authentication if users who must be authenticated access your Web site from behind firewalls and proxy servers.
<input checked="" type="checkbox"/> Active Directory Domain Services (Installed)	
<input type="checkbox"/> Active Directory Federation Services	
<input type="checkbox"/> Active Directory Lightweight Directory Services	
<input type="checkbox"/> Active Directory Rights Management Services	
<input type="checkbox"/> Device Health Attestation	
<input type="checkbox"/> DHCP Server	
<input checked="" type="checkbox"/> DNS Server (Installed)	
<input type="checkbox"/> Fax Server	
▸ <input checked="" type="checkbox"/> File and Storage Services (2 of 12 installed)	
<input type="checkbox"/> Host Guardian Service	
<input type="checkbox"/> Hyper-V	
<input type="checkbox"/> MultiPoint Services	
<input type="checkbox"/> Network Policy and Access Services	
<input type="checkbox"/> Print and Document Services	
<input type="checkbox"/> Remote Access	
<input type="checkbox"/> Remote Desktop Services	
<input type="checkbox"/> Volume Activation Services	
▴ <input checked="" type="checkbox"/> Web Server (IIS) (15 of 43 installed)	
▴ <input checked="" type="checkbox"/> Web Server (14 of 34 installed)	
▸ <input checked="" type="checkbox"/> Common HTTP Features (4 of 6 installed)	
▸ <input checked="" type="checkbox"/> Health and Diagnostics (1 of 6 installed)	
▸ <input checked="" type="checkbox"/> Performance (1 of 2 installed)	
▴ <input checked="" type="checkbox"/> Security (1 of 9 installed)	
<input checked="" type="checkbox"/> Request Filtering (Installed)	
<input type="checkbox"/> Basic Authentication	
<input type="checkbox"/> Centralized SSL Certificate Support	
<input type="checkbox"/> Client Certificate Mapping Authentication	
<input type="checkbox"/> Digest Authentication	
<input type="checkbox"/> IIS Client Certificate Mapping Authentication	
<input type="checkbox"/> IP and Domain Restrictions	
<input type="checkbox"/> URL Authorization	
<input checked="" type="checkbox"/> <b>Windows Authentication</b>	
▸ <input checked="" type="checkbox"/> Application Development (7 of 11 installed)	
▸ <input type="checkbox"/> FTP Server	
▸ <input checked="" type="checkbox"/> Management Tools (1 of 7 installed)	
<input type="checkbox"/> Windows Deployment Services	
<input type="checkbox"/> Windows Server Essentials Experience	
<input type="checkbox"/> Windows Server Update Services	

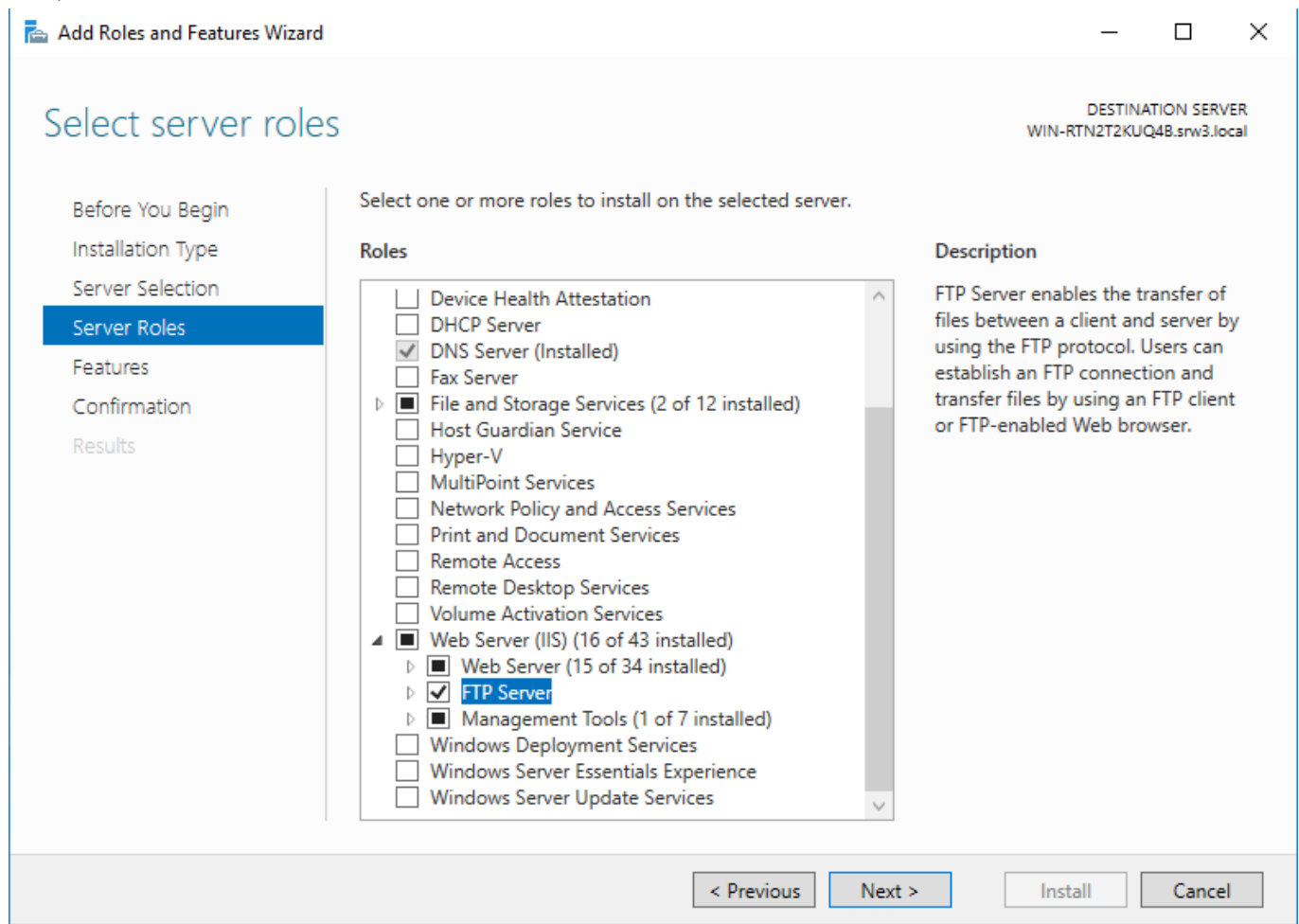
< Previous   Next >   Install   Cancel

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

Disabled all and Enable **Windows Authentication**

FTP

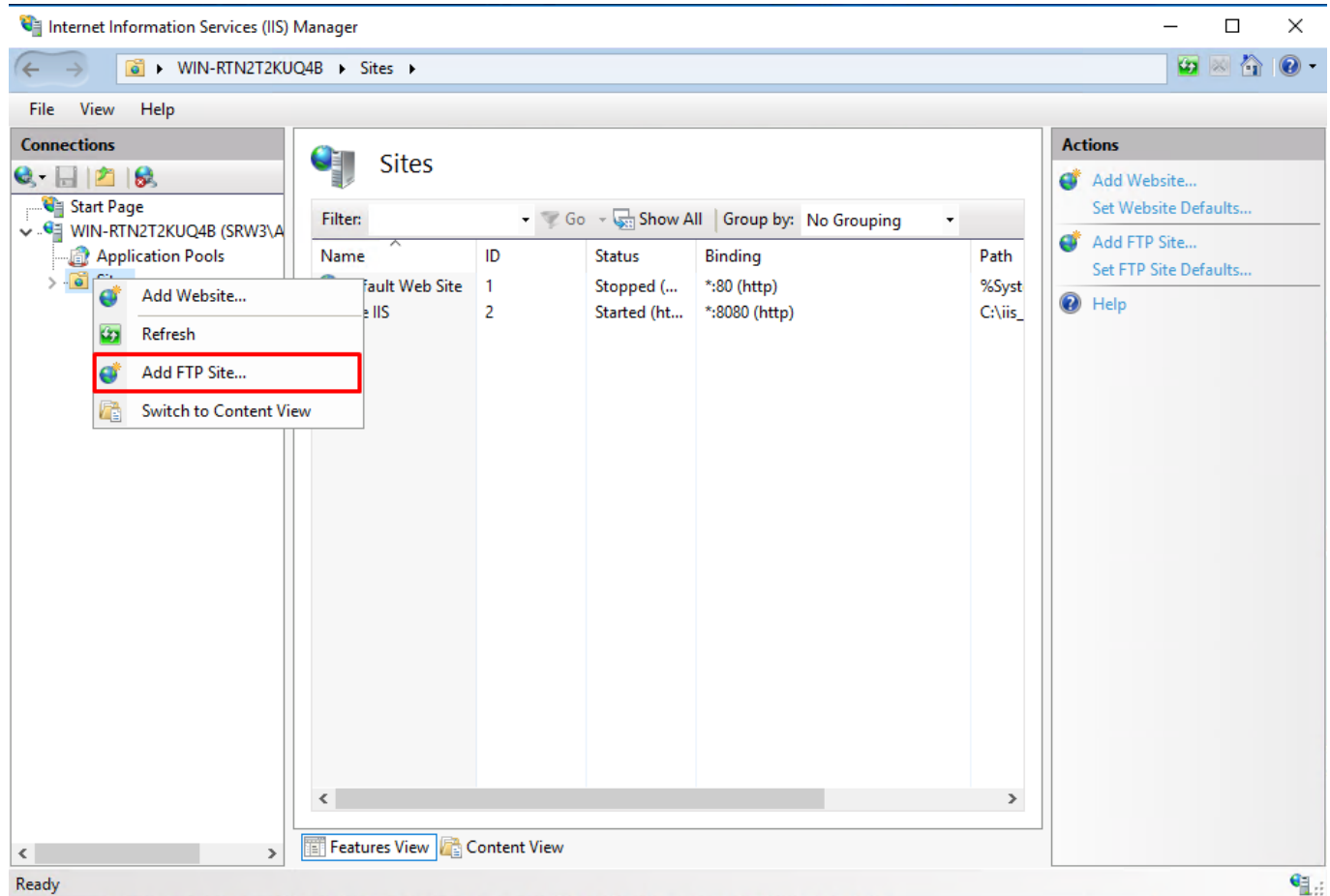
First, install Server Roles **FTP**



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?×

**Binding and SSL Settings**

Binding

IP Address:  
All Unassigned

Port:  
21

☐ Enable Virtual Host Names:  
Virtual Host (example: ftp.contoso.com):

☒ Start FTP site automatically

SSL

☒ No SSL

☐ Allow SSL

☐ Require SSL

SSL Certificate:  
Not Selected

Select...View...

Previous

Next

Finish

Cancel

Add FTP Site

?

✕

**Authentication and Authorization Information****Authentication**

- ☐ Anonymous
- ☒ Basic

**Authorization**

Allow access to:

All users ▼

**Permissions**

- ☒ Read
- ☒ Write

Previous

Next

Finish

Cancel

Apply change and restart **FTPSVC Services** on Task Manager

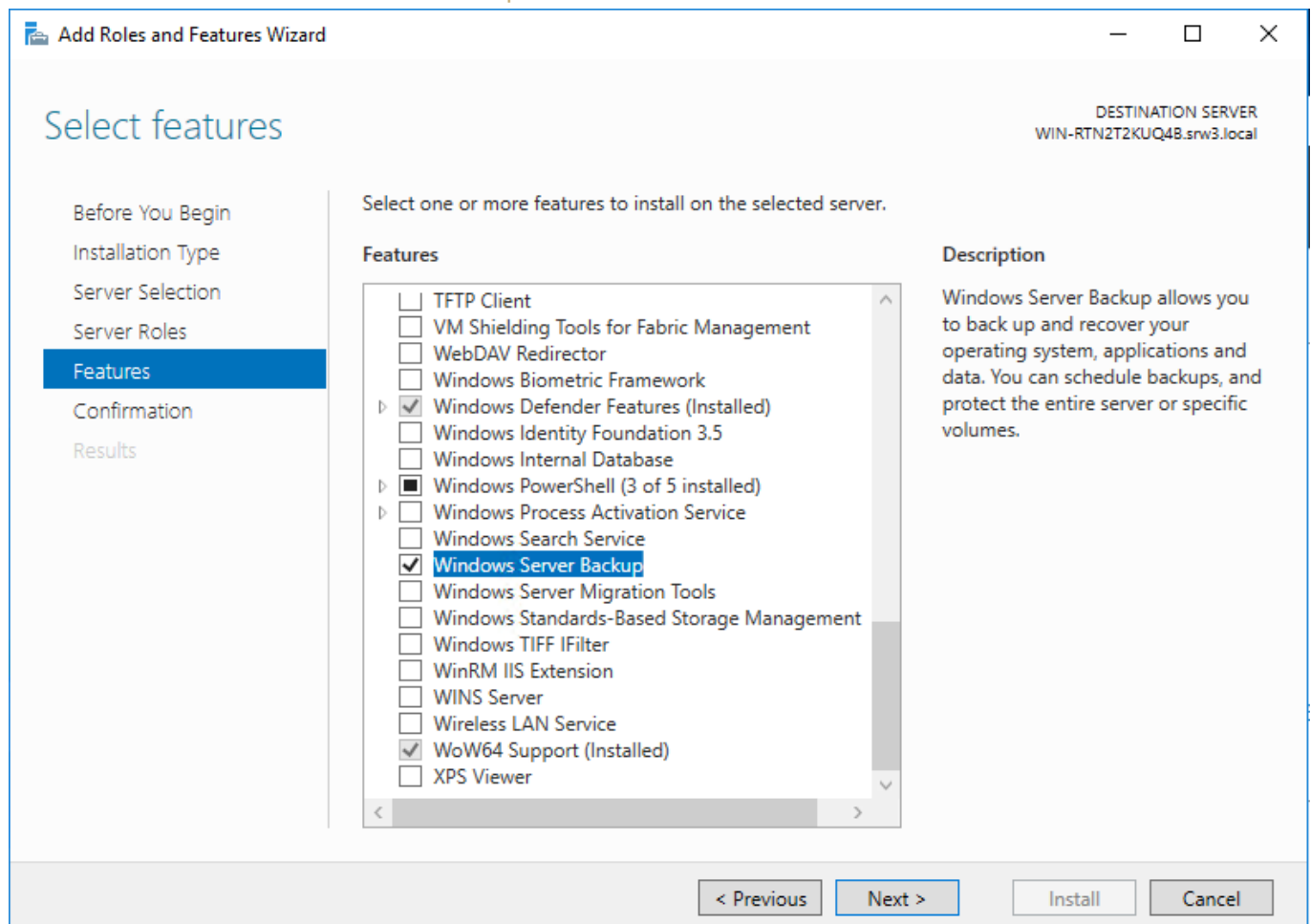
The screenshot shows the Windows Task Manager application with the 'Services' tab selected. A list of system services is displayed with columns for Name, PID, Description, Status, and Group. The 'FTPSVC' service is highlighted, and a right-click context menu is open over it, showing options: Start, Stop, Restart, Open Services, Search online, and Go to details.

Name	PID	Description	Status	Group
Dnscache	856	DNS Client	Running	NetworkService
dot3svc		Wired AutoConfig	Stopped	LocalSystemN...
DPS	1072	Diagnostic Policy Service	Running	LocalServiceN...
DsmSvc	980	Device Setup Manager	Running	netsvcs
DsRoleSvc		DS Role Server	Stopped	
DsSvc		Data Sharing Service	Stopped	LocalSystemN...
Eaphost		Extensible Authentication Protocol	Stopped	netsvcs
EFS	580	Encrypting File System (EFS)	Running	
embeddedmode		Embedded Mode	Stopped	LocalSystemN...
EntAppSvc		Enterprise App Management Service	Stopped	appmodel
EventLog	264	Windows Event Log	Running	LocalServiceN...
EventSystem	256	COM+ Event System	Running	LocalService
fdPHost		Function Discovery Provider Host	Stopped	LocalService
FDResPub		Function Discovery Resource Public...	Stopped	LocalServiceA...
FontCache	256	Windows Font Cache Service	Running	LocalService
FontCache3.0.0.0		Windows Presentation Foundation F...	Stopped	
FrameServer		Windows Camera Frame Server	Stopped	Camera
<b>FTPSVC</b>	<b>548</b>	<b>Microsoft FTP Service</b>		<b>ftpsvc</b>
gpsvc	980	Group Policy Client		netsvcs
hidserv		Human Interface Device S...		LocalSystemN...
HvHost		HV Host Service		LocalSystemN...
icssvc		Windows Mobile Hotspot		LocalServiceN...
IKEEXT		IKE and AuthIP IPsec Kevin		netsvcs

Context menu options for FTPSVC:

- Start
- Stop
- Restart
- Open Services
- Search online
- Go to details

Backup

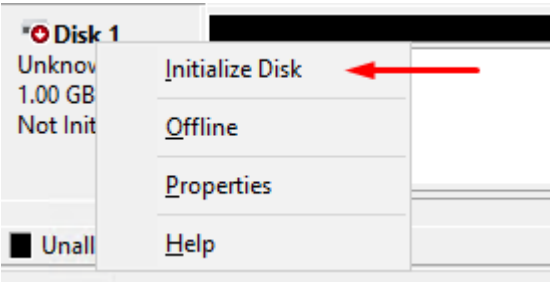
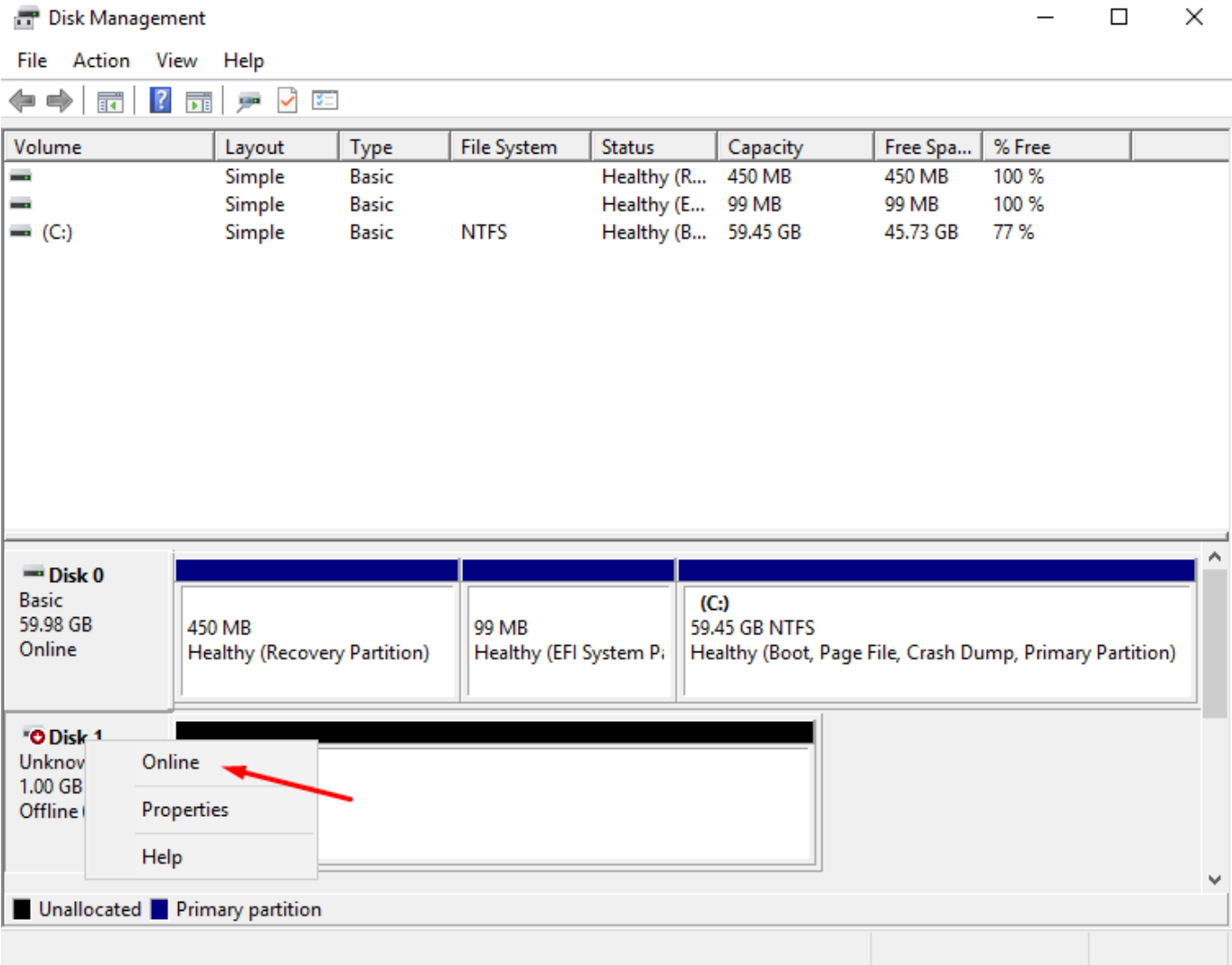
Add new feature **Windows Server Backup**

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

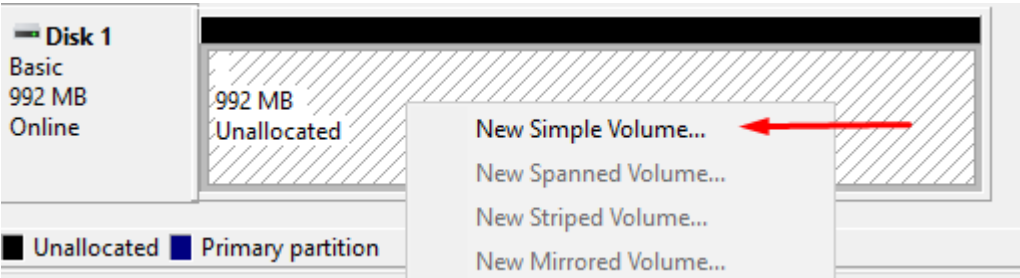
Next shut down the VM and add new disk with 1GB

Restart VM and open **Disk Management** console

Set the new disk on Online and Initialize it

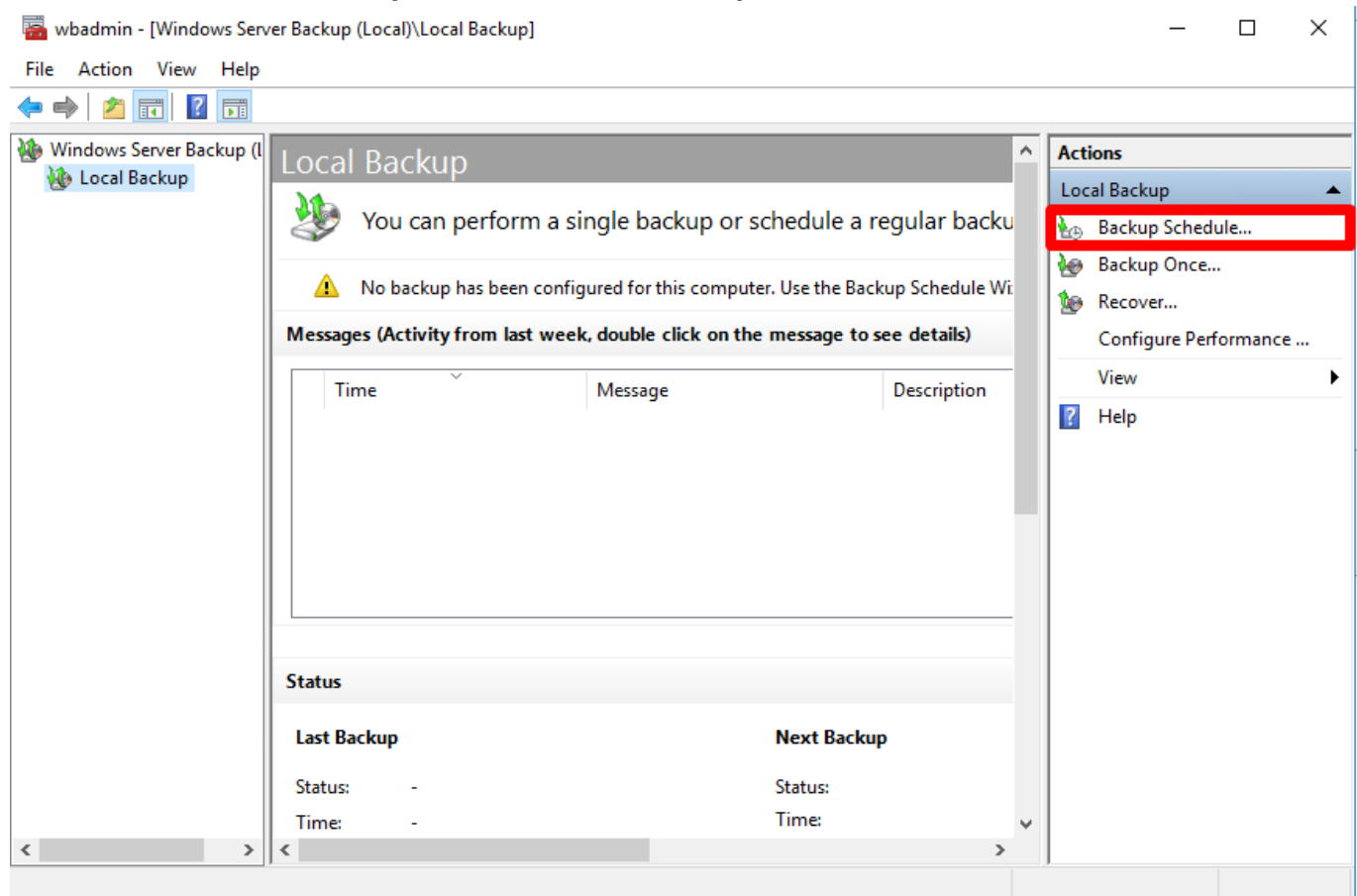


Create simple partition



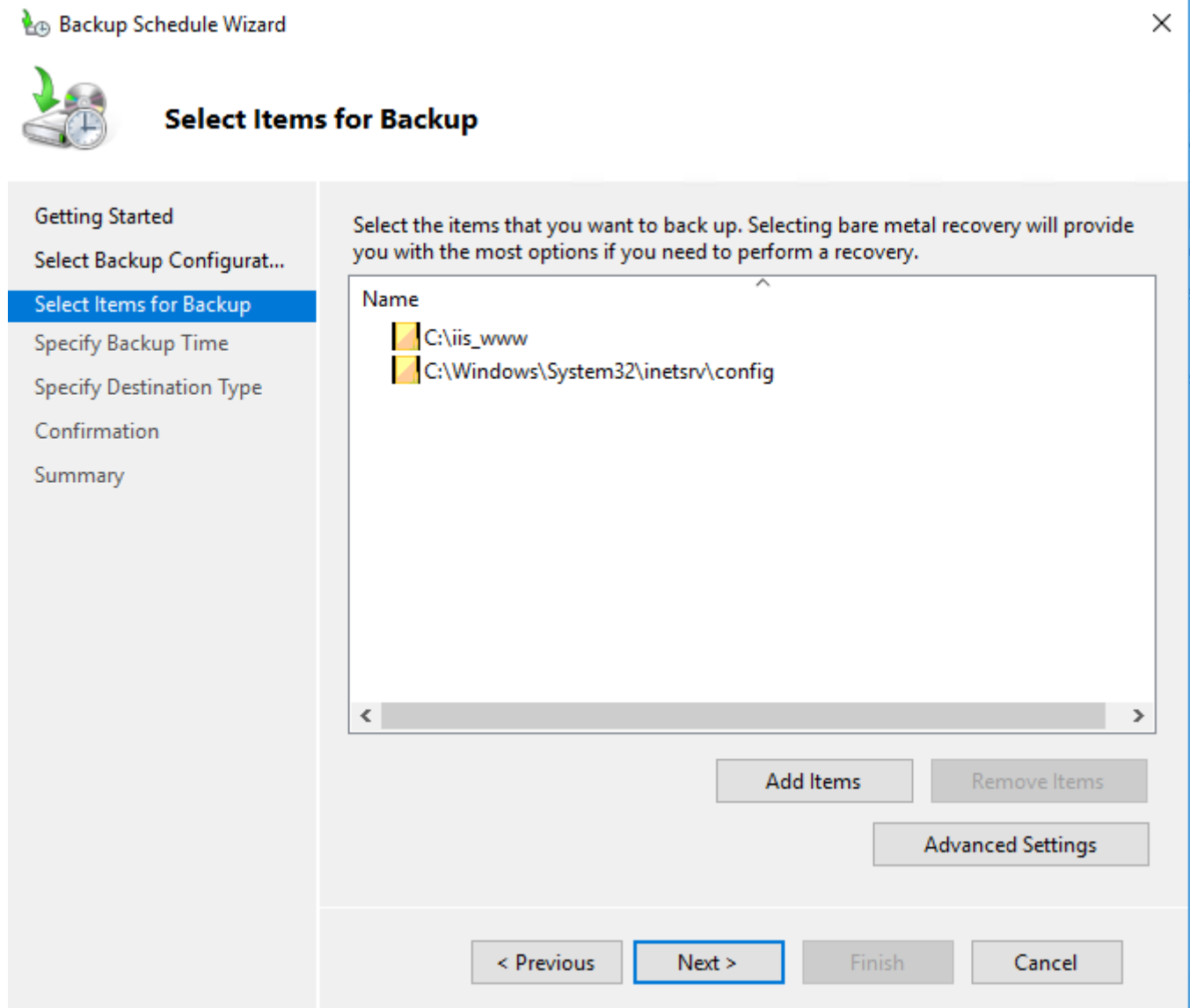
with max size, use B for drive letter, named volume Backup and finish configuration

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 :



Backup Schedule Wizard



Confirmation

Getting Started

Select Backup Configurat...

Select Items for Backup

Specify Backup Time

Specify Destination Type

Select Destination Volume

Confirmation

Summary

You are about to create the following backup schedule.

Backup times: 9:00 PM

Files excluded: None


Advanced option: VSS Copy Backup


Backup destinations

Name	Size	Used Space
Backup (B:)	990.00 MB	14.51 MB

Backup items

Name

 C:\iis\_www

 C:\Windows\System32\inetsrv\config

< Previous

Next >

Finish

Cancel

Finish configuration