

## SYSTEM AND NETWORK PROJECT-PART3- Windows server

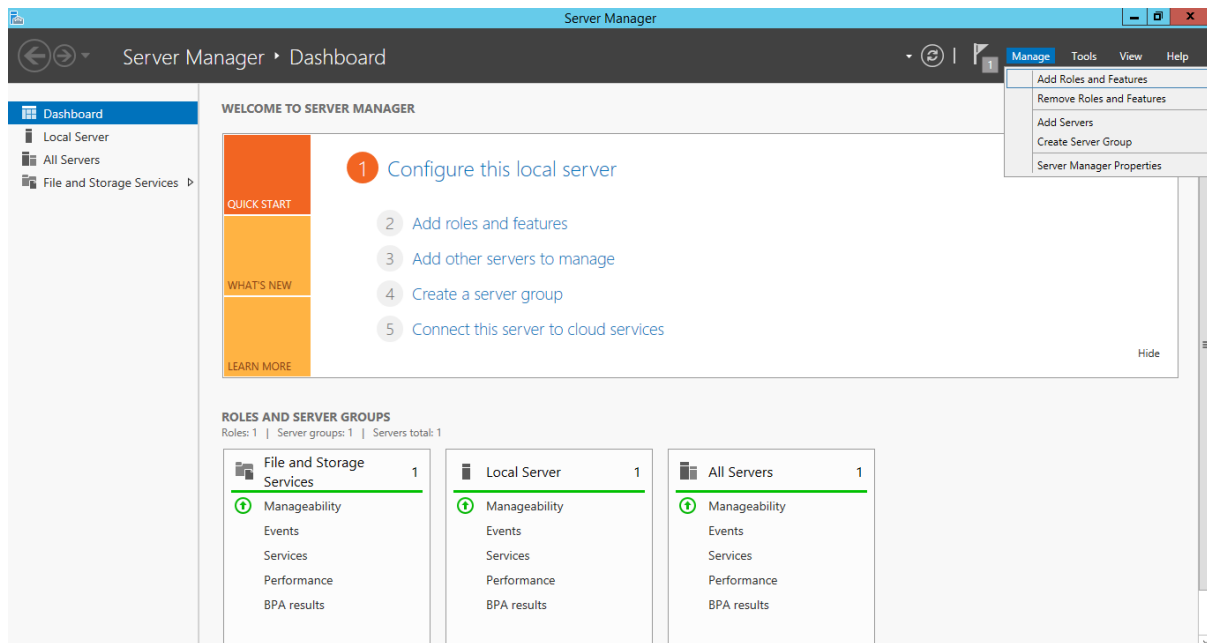
Student: Alex ACQUIER ID#:G00293624

Lecturer: Michael DUIGNAN

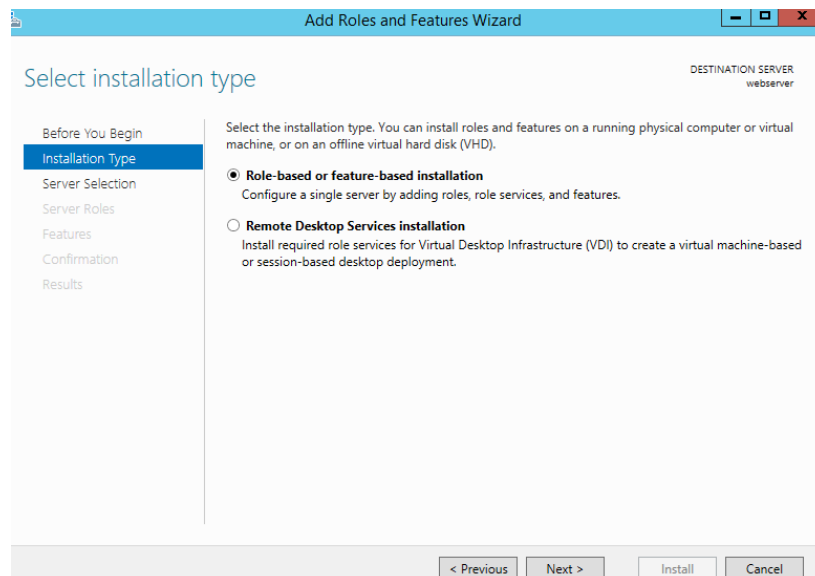
### *Installation of an Internet Information Server (ISS)*

To install IIS 8, use the following steps:

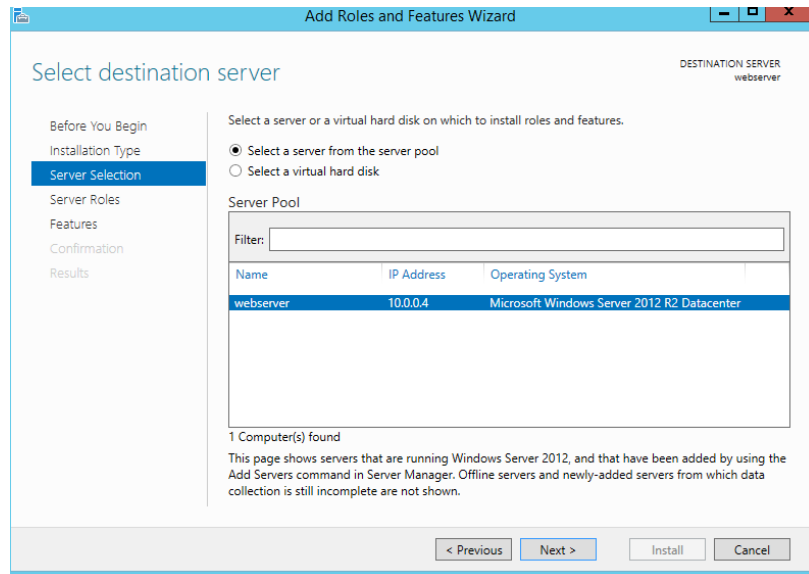
- Open the **Server Manager** and go to the **Manage** menu at the top right corner of the window and select **Add Roles and Features**:



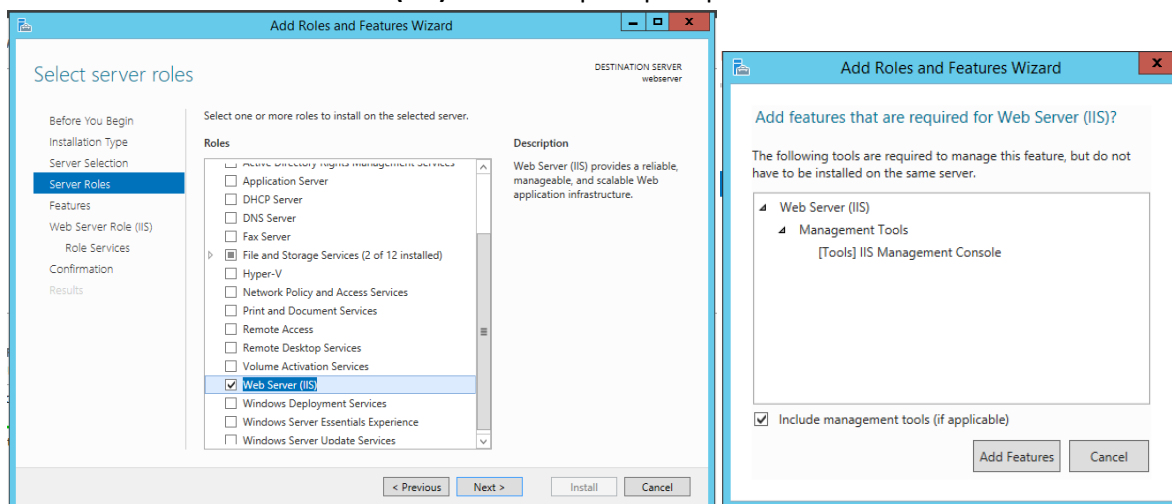
From there, select **Installation Type** and make sure that **role-based or feature-based installation** is selected then click **Next**:



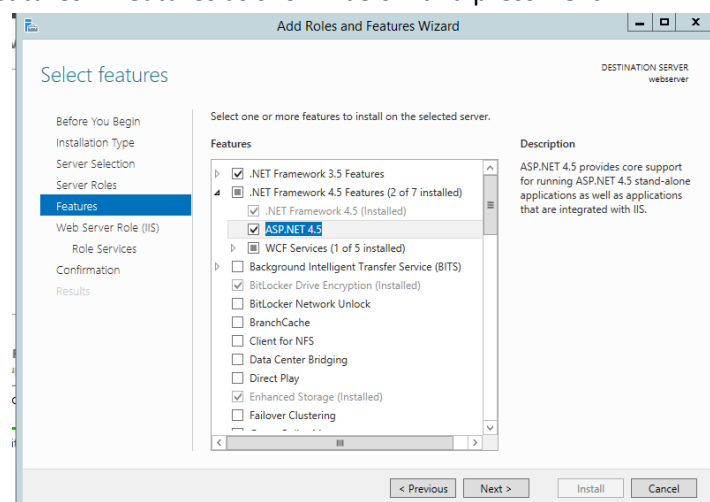
In **Server Selection** select your server and press **Next**:



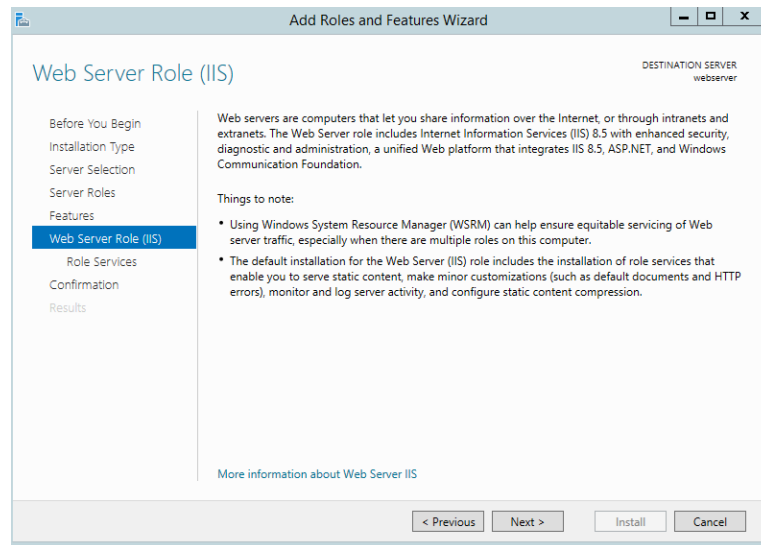
In server roles **Select Web Server (IIS)** and when prompted press the **Add Features** button:



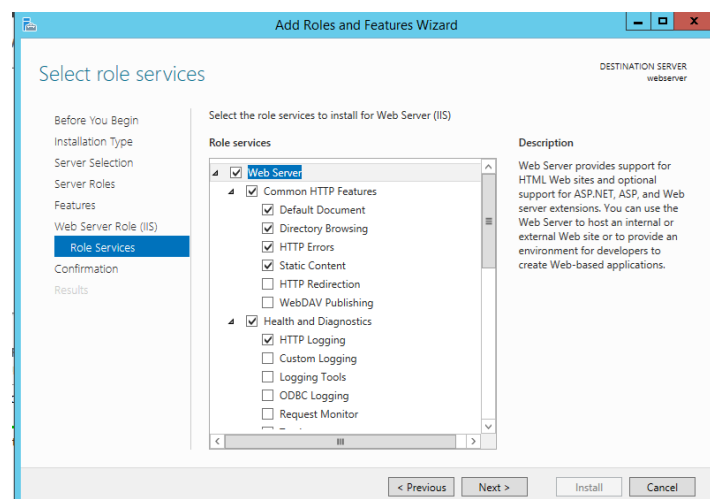
Install the missing features in features as shown below and press **Next**:



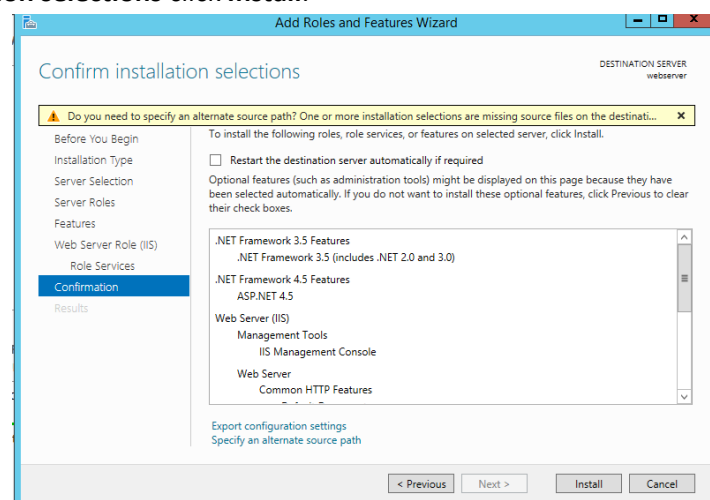
Click **Next** in **Web Server Role (ISS)**:



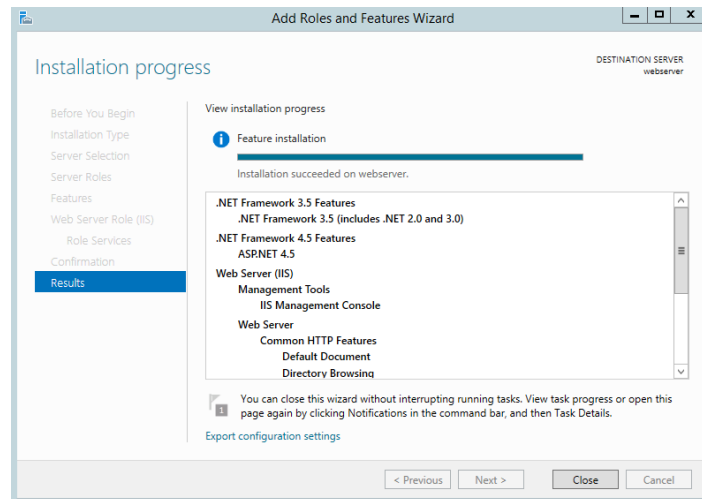
In **Select Role Service**, the ISS set up can be customized or the default set up can be accepted (do as you see fit), after click **Next**:



In **Confirm installation selections** click **Install**:



Once all feature have been installed, click **Close**:

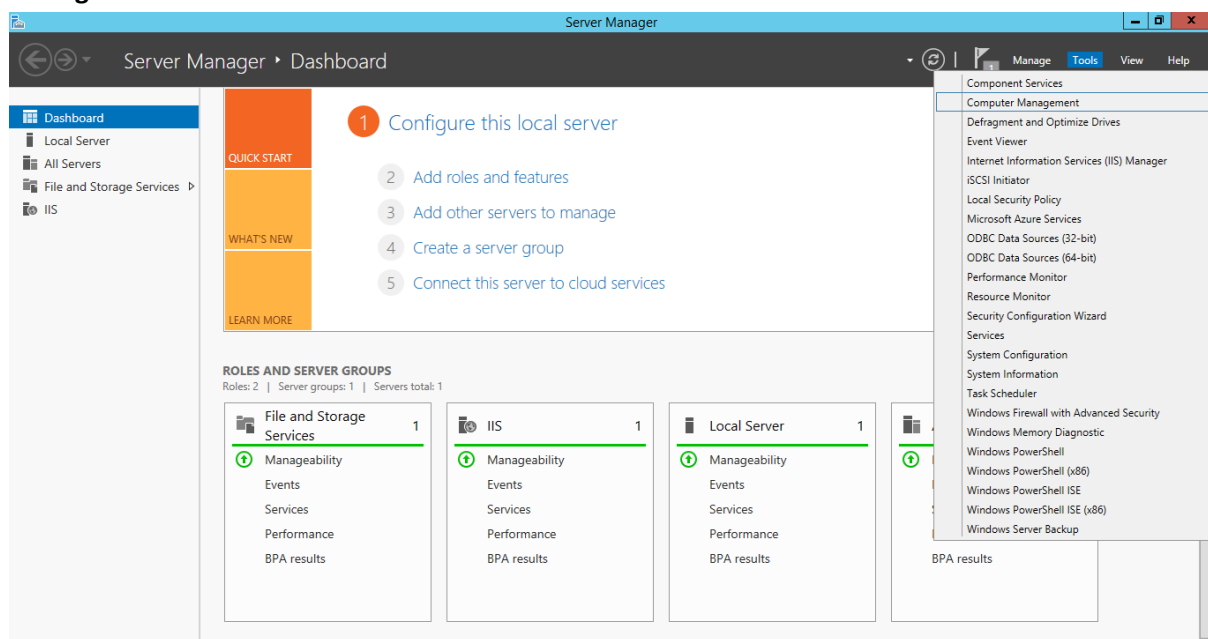


## Virtual server specification

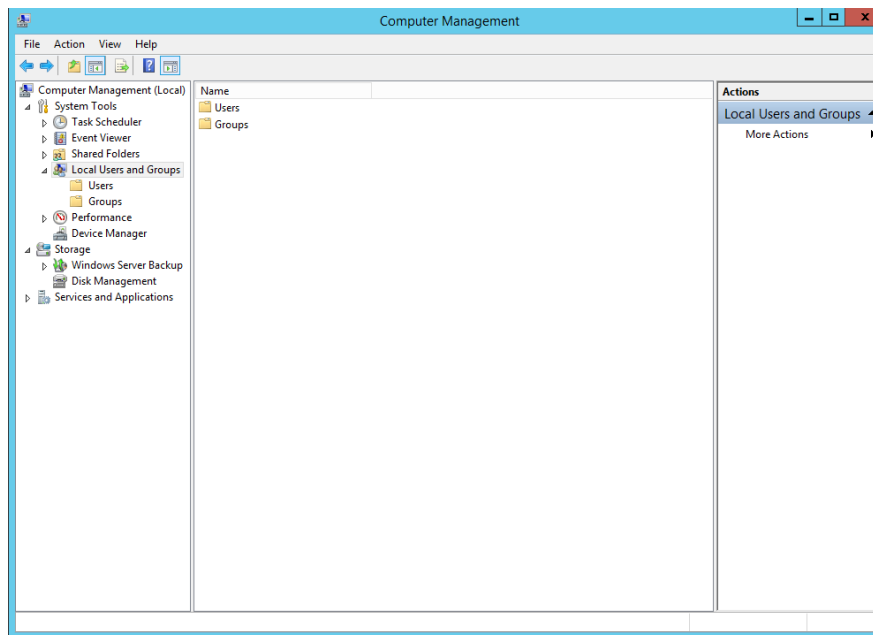
Operating System:	Microsoft Windows Server R2 Datacenter
Web server:	IIS
Hostname:	webserver
Hard drive size:	285GB
RAM size:	7 GB
IP Address:	10.0.0.4

## Account set up and permissions

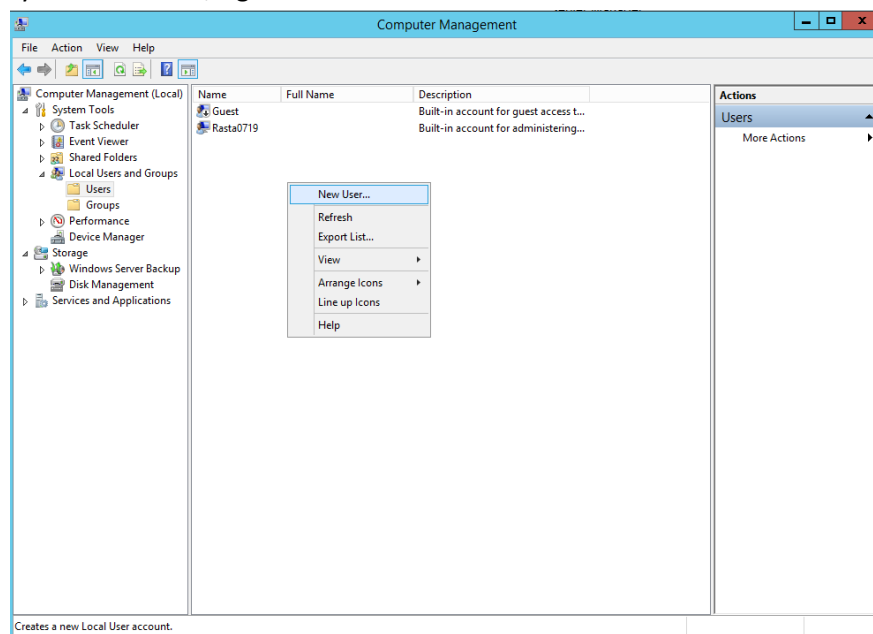
To access the account manager go on the top right of the screen in **Tools** and select **Computer Management**:



Under **Computer Management (Local)**, select **Local Users and Groups** and double click on the **Users** folder:



To set up the SysClass account, right click in the middle window and select **New User**:



Fill the fields of the **New User** and click **Create**, afterward the middle screen should look as the picture in the right:

New User

User name: SysClass

Full name: SysClass

Description:

Password:

Confirm password:

☐ User must change password at next logon

☐ User cannot change password

☒ Password never expires

☐ Account is disabled

Help

Create

Close

Name	Full Name	Description
Guest		Built-in account for guest access t...
Rasta0719		Built-in account for administering...
SysClass	SysClass	

To create the Guest account, double click on the **Guest** icon in the middle window and uncheck the **Account is disabled** box and apply:

Guest Properties

General

Member Of

Profile

Environment

Dial-in Sessions

Guest

Full name:

Description: Built-in account for guest access to the computer/domain

☐ User must change password at next logon

☒ User cannot change password

☒ Password never expires

☒ Account is disabled

☐ Account is locked out

OK

Cancel

Apply

Help

Guest Properties

General

Member Of

Profile

Environment

Dial-in Sessions

Guest

Full name:

Description: Built-in account for guest access to the computer/domain

☐ User must change password at next logon

☐ User cannot change password

☒ Password never expires

☐ Account is disabled

☐ Account is locked out

OK

Cancel

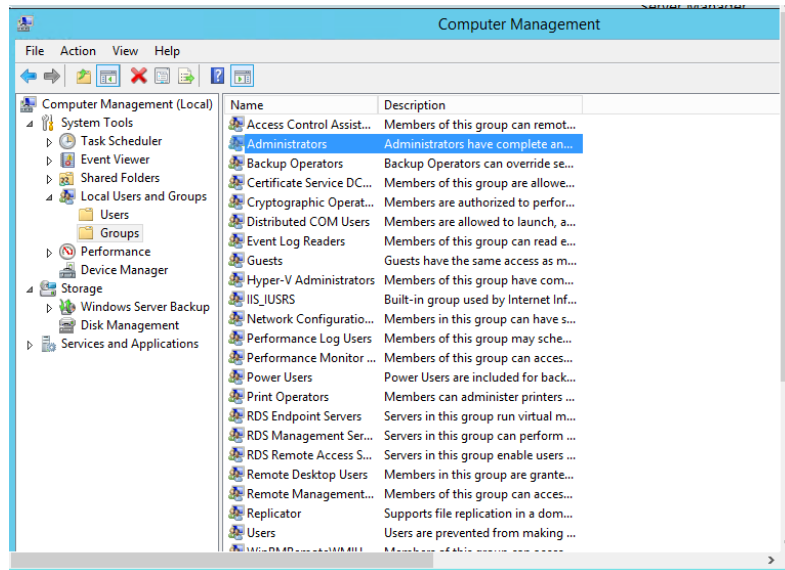
Apply

Help

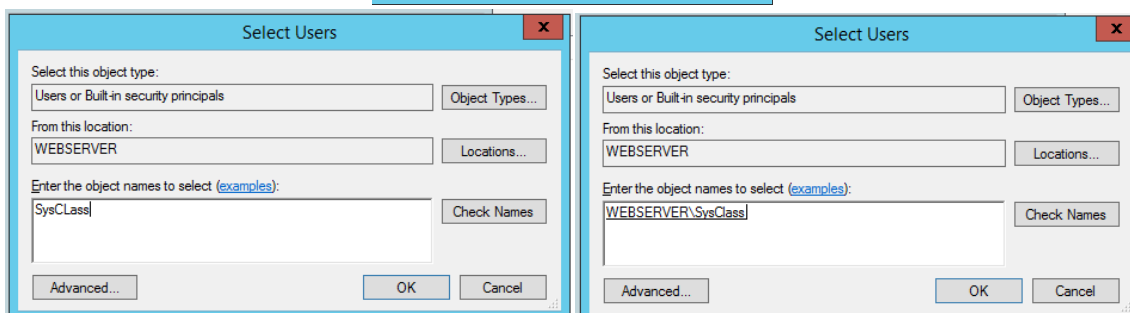
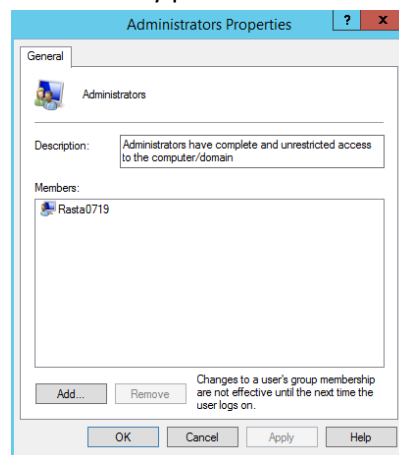
Afterward the middle screen should look as shown below:

Name	Full Name	Description
Guest		Built-in account for guest access t...
Rasta0719		Built-in account for administering...
SysClass	SysClass	

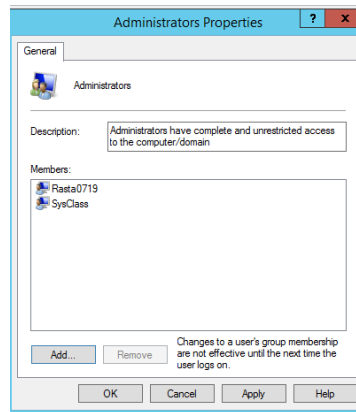
To set administrator right for the Sysclass, go to **Groups** and double click on **Administrators**:



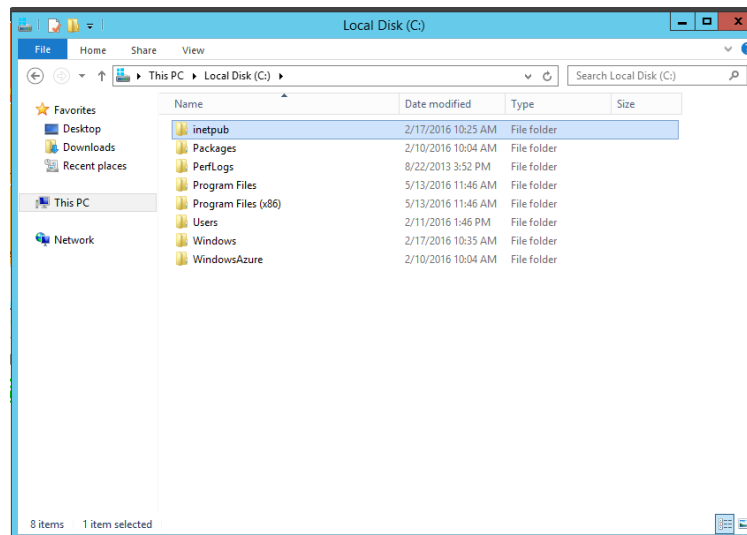
In **Administrators Properties** click **Add...**, in the **Select Users** type the SysClass in the text box and click on **Check Names**, if the account is already present it would show as the last picture:



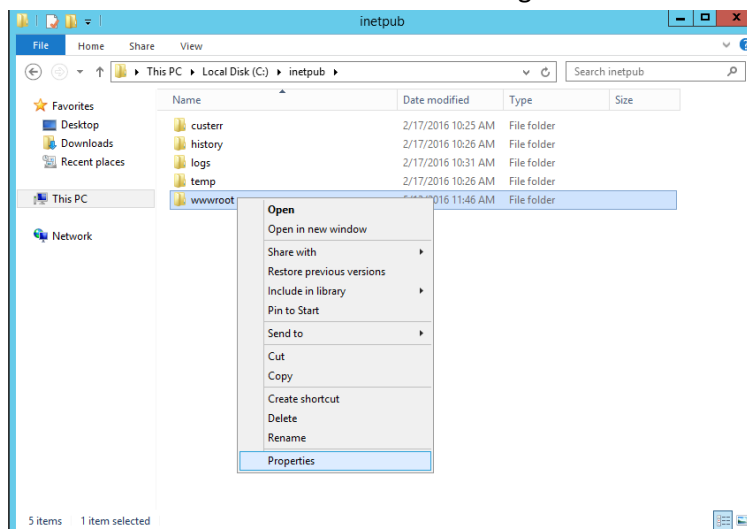
In the next window click **Apply**:



To give read-only access to the **Guest** account , click the **Windows** icon, click **this PC**, go on the **Local Disk (C:)** and go to the **inetpub** file folder:

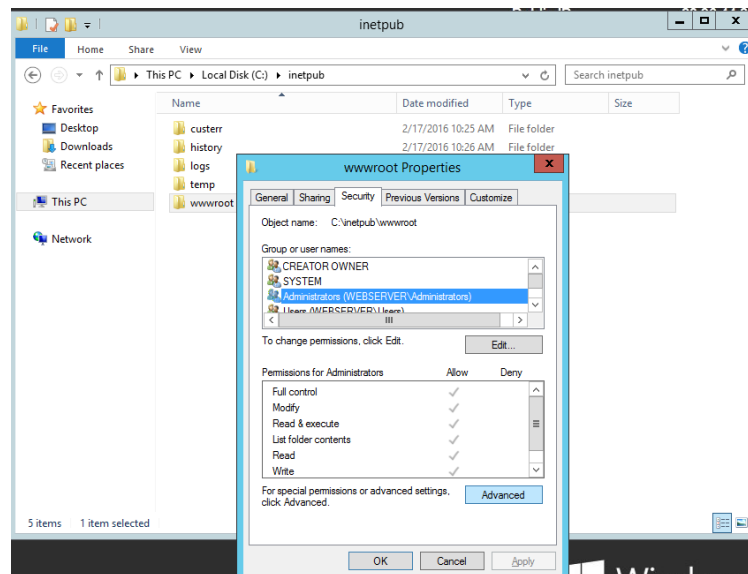


In the **inetpub** file folder select the **wwwroot** file folder and right click on it then select **Properties**:

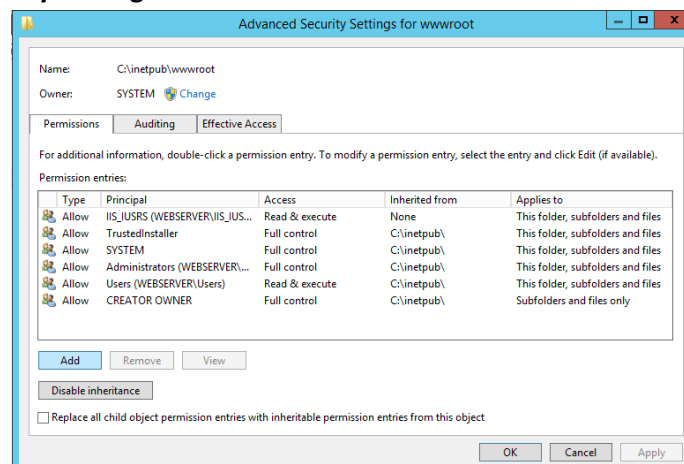




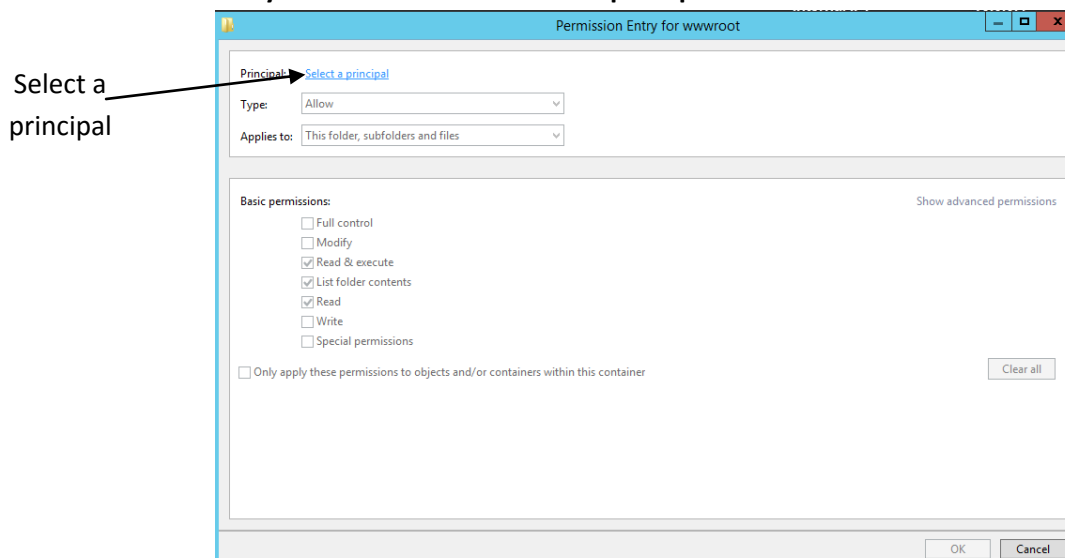
Once in the **wwwroot Properties** select **Administrators(WEBSERVER\Administrators)** and click **Advanced**:



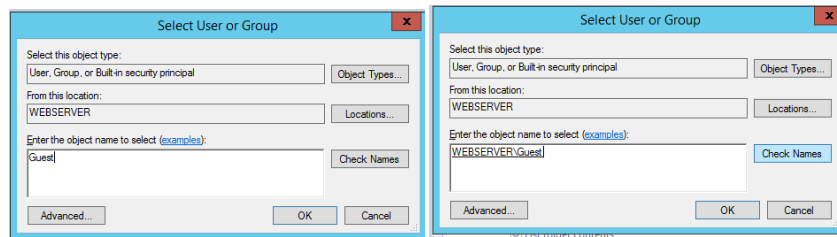
In the **Advanced Security Settings for wwwroot** click on **Add**:



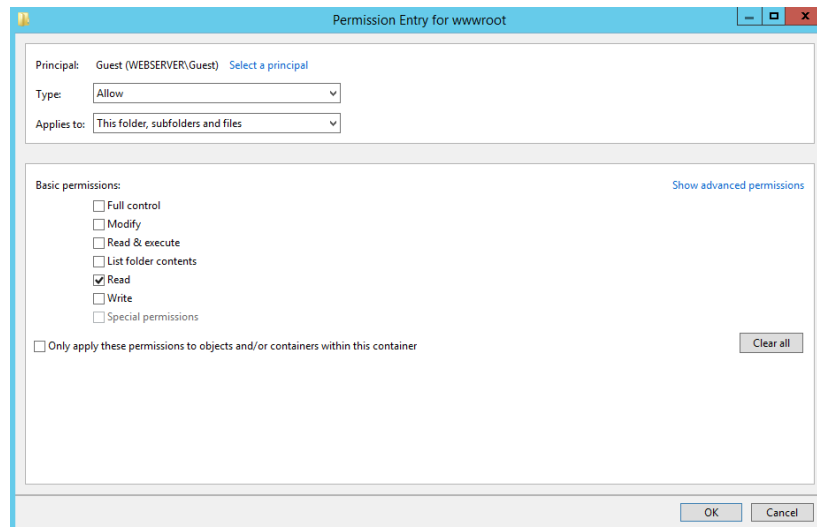
In **Permission Entry for wwwroot** click **Select a principal**:



In **Select User or Group** type **Guest** in the text box, and click on **Check Names** and click **OK**:



Finally leave only the **Read** checkbox checked in **Permission Entry for wwwroot** and click **OK** and **Apply** for the next window:



## ***Emails generation and schedule***

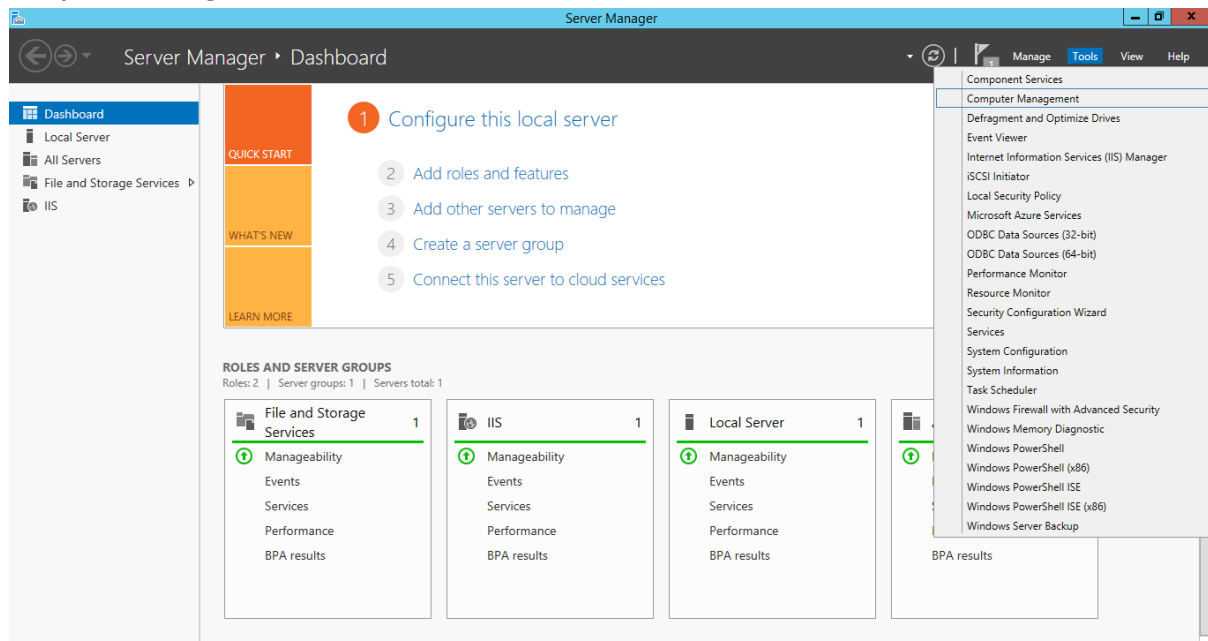
The first step is to download the **mailsend.exe** application file from the internet and paste it in the **This PC>Local Disk (C:)> Windows** folder

A batch file is created with the code shown below to allow to generate emails:

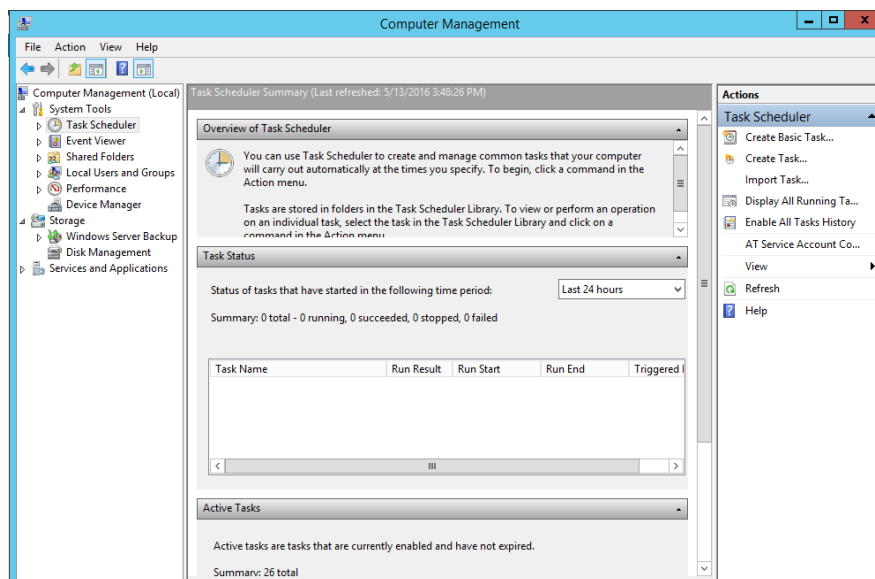
```
mailsend.exe -t alex.acquier@gmail.com -f systecsubmission@gmail.com -ssl -port 465 -auth -smtp smtp.gmail.com -sub "Windows automated emails"
-M "System and networks Windows automated Emails" -user sysclass2016@gmail.com -pass systems2016
```

The **mailsend.exe** references the application file in the **This PC>Local Disk (C:)> Windows** folder which allows the emails to be generated. The **-f** followed by the email address tells from which address it is send from where the **-t** followed by the email address tells from which address it is send to. The **-ssl** is the default setting to tell the smtp server to use the default socket, **-port 465** tells the smtp server to use this port number. The **-sub "Windows automated emails"** generate the subject of the email, **-M "System and networks Windows automated Emails"** generate the body of text of the Email. The **-a mySeverSpec.txt** tells which document to attach to the email. The **-user sysclass2016@gmail.com** is the account username for the smtp authentication and the **-pass systems2016** is the password for the smtp authentication.

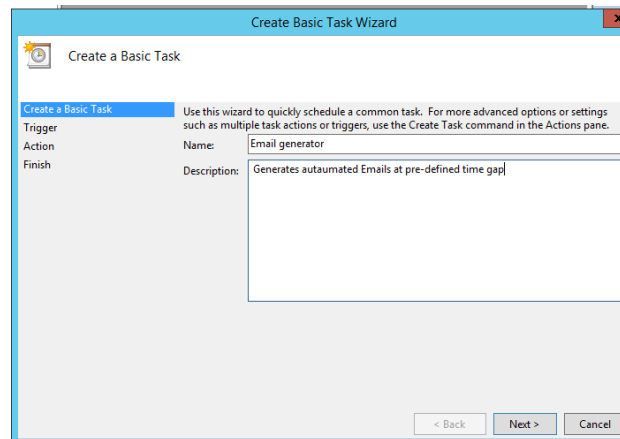
To set up the automated emails schedule, go on the top right of the screen in **Tools** and select **Computer Management**:



In the **Computer Management** window go to **Task Scheduler** and on the right side of the screen select **Create Basic Task**:

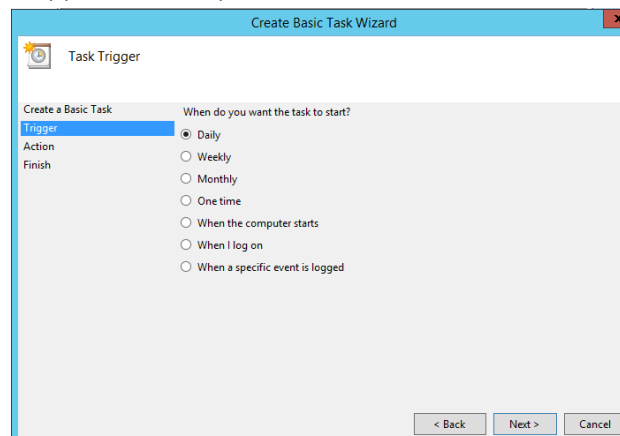


In the **Create Basic Task Wizard** window give a name and description of the task and click **Next**:



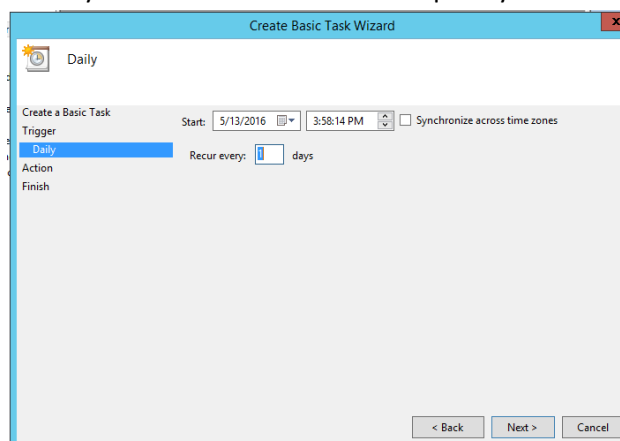
The screenshot shows the 'Create a Basic Task' window of the Windows Task Scheduler. The title bar reads 'Create Basic Task Wizard'. On the left, a navigation pane has 'Create a Basic Task' selected. The main area contains a 'Name' field with 'Email generator' and a 'Description' text box with 'Generates automated Emails at pre-defined time gap'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

Select when is the task is suppose to take place and click **Next**:



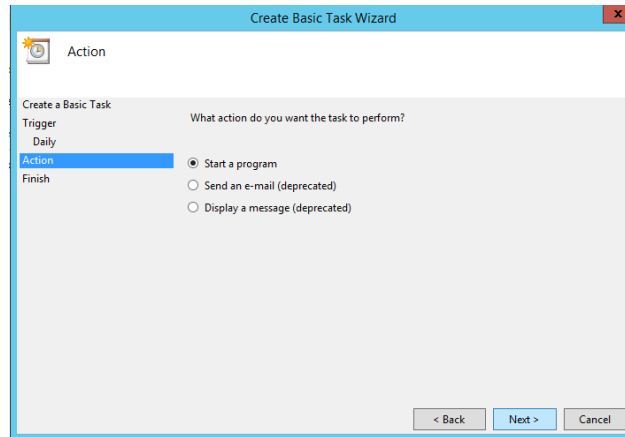
The screenshot shows the 'Task Trigger' step of the wizard. The left pane has 'Trigger' selected. The main area is titled 'When do you want the task to start?' and lists several options: 'Daily' (selected with a radio button), 'Weekly', 'Monthly', 'One time', 'When the computer starts', 'When I log on', and 'When a specific event is logged'. The bottom buttons are '< Back', 'Next >', and 'Cancel'.

Select the starting time and day of the task as well as its frequency and click **Next**:



The screenshot shows the 'Daily' configuration step. The left pane has 'Daily' selected. The main area shows 'Start:' with a date of '5/13/2016' and a time of '3:58:14 PM', followed by a 'Recur every:' field set to '1' days. There is a 'Synchronize across time zones' checkbox. The bottom buttons are '< Back', 'Next >', and 'Cancel'.

Select the **Start a program** checkbox and click **Next**:



Select the batch file in your directory using the **Browse** button, click **Next** and click **Finish** on the next window:

