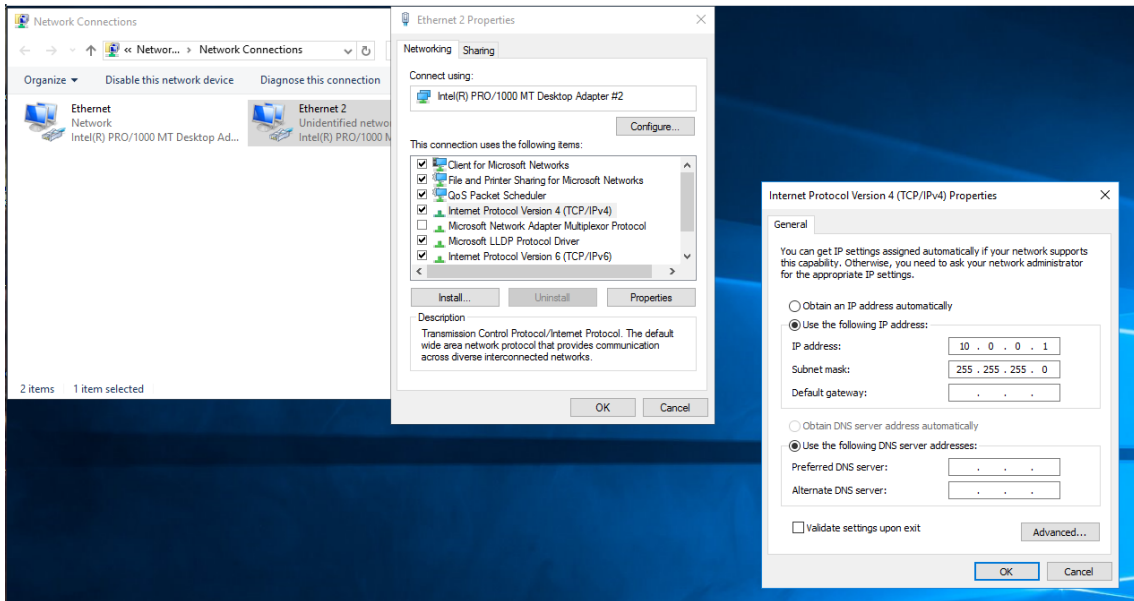
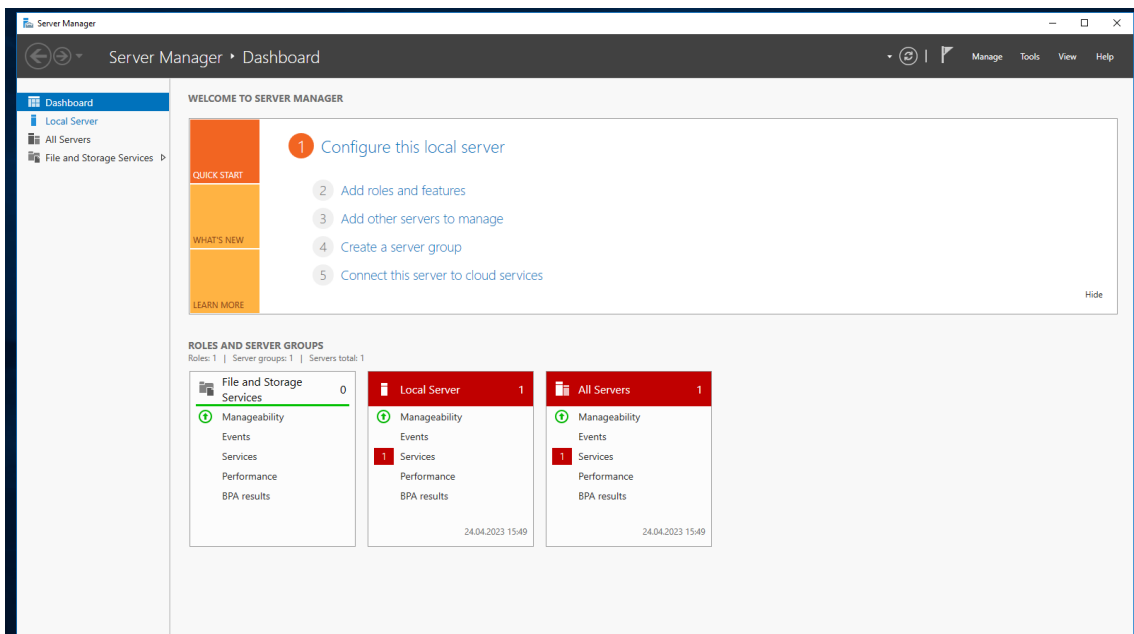
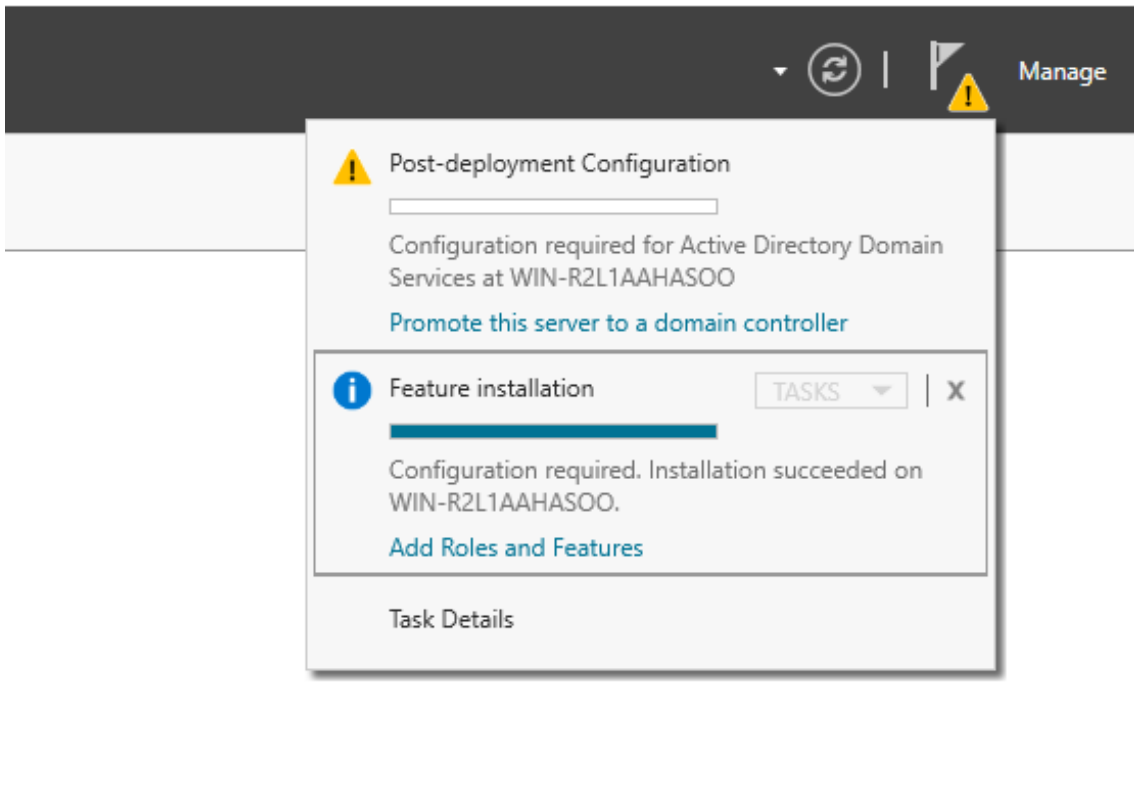
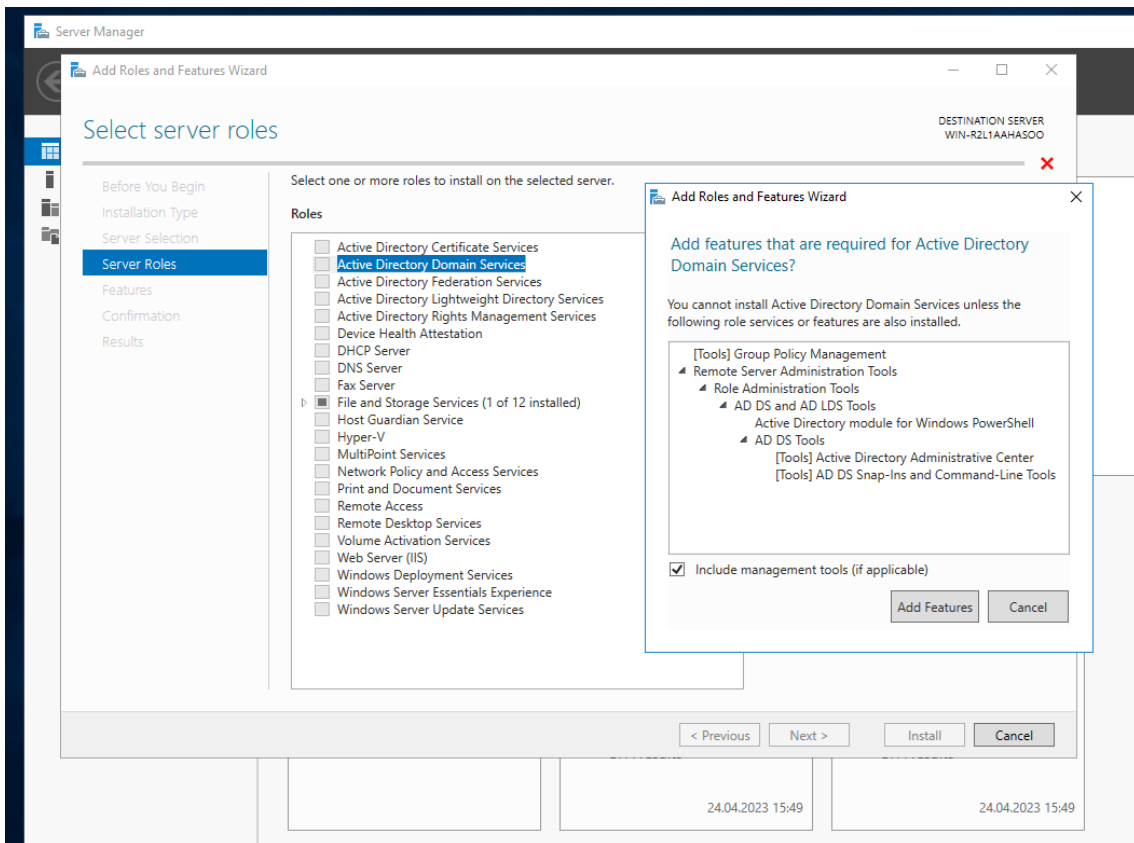


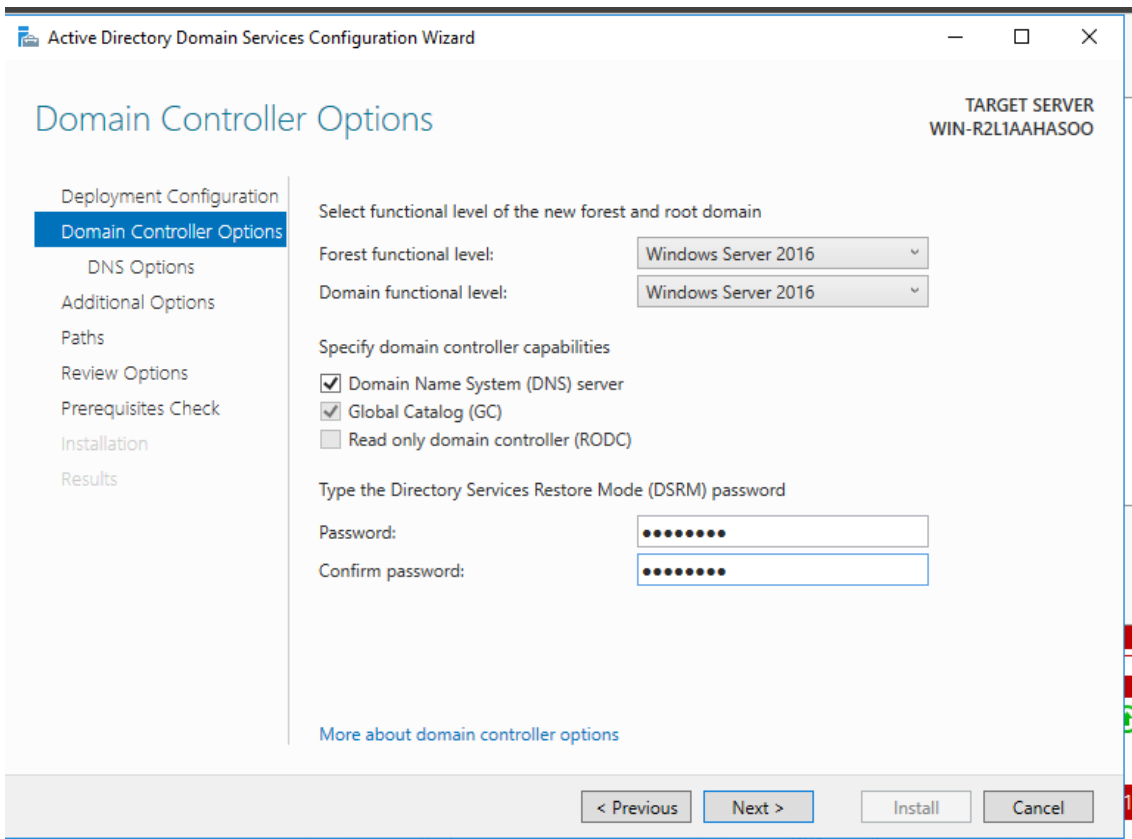
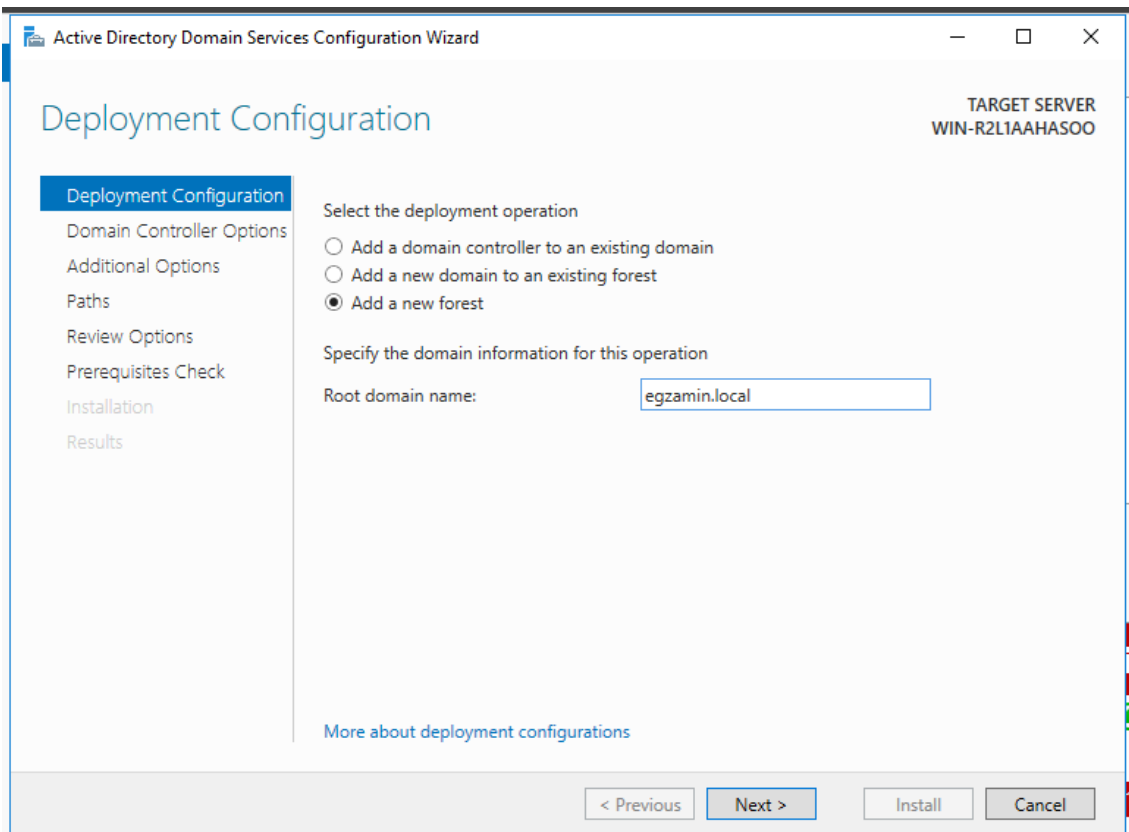
# 1 Adres IP

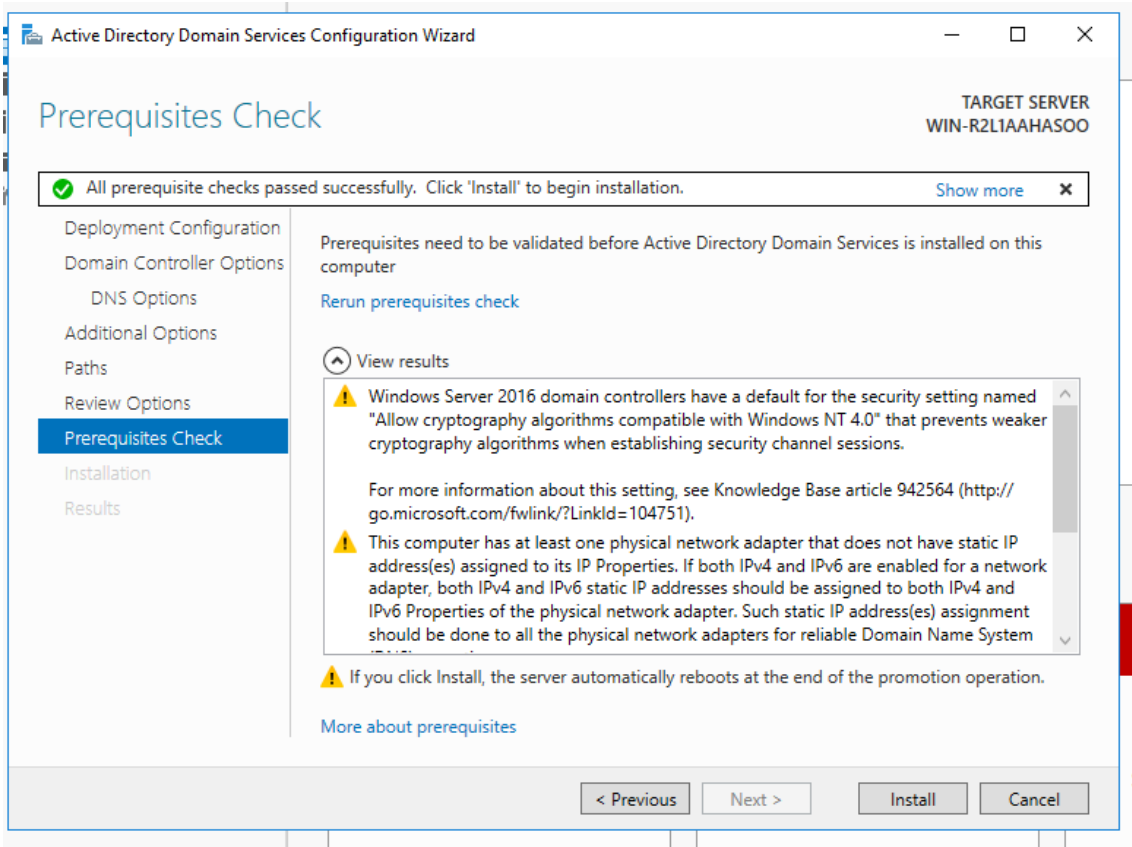


# 2 Domena Active Directory

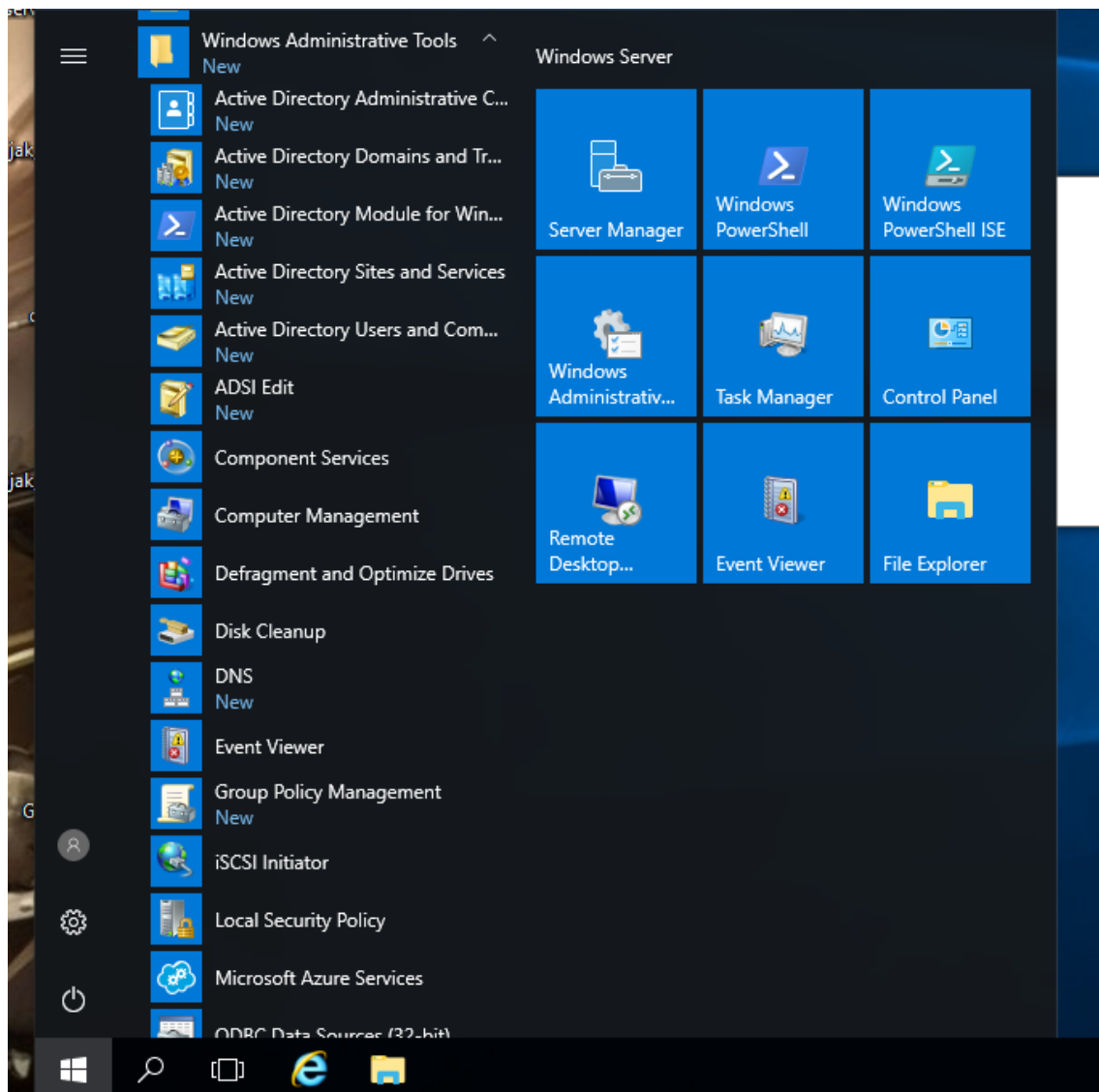




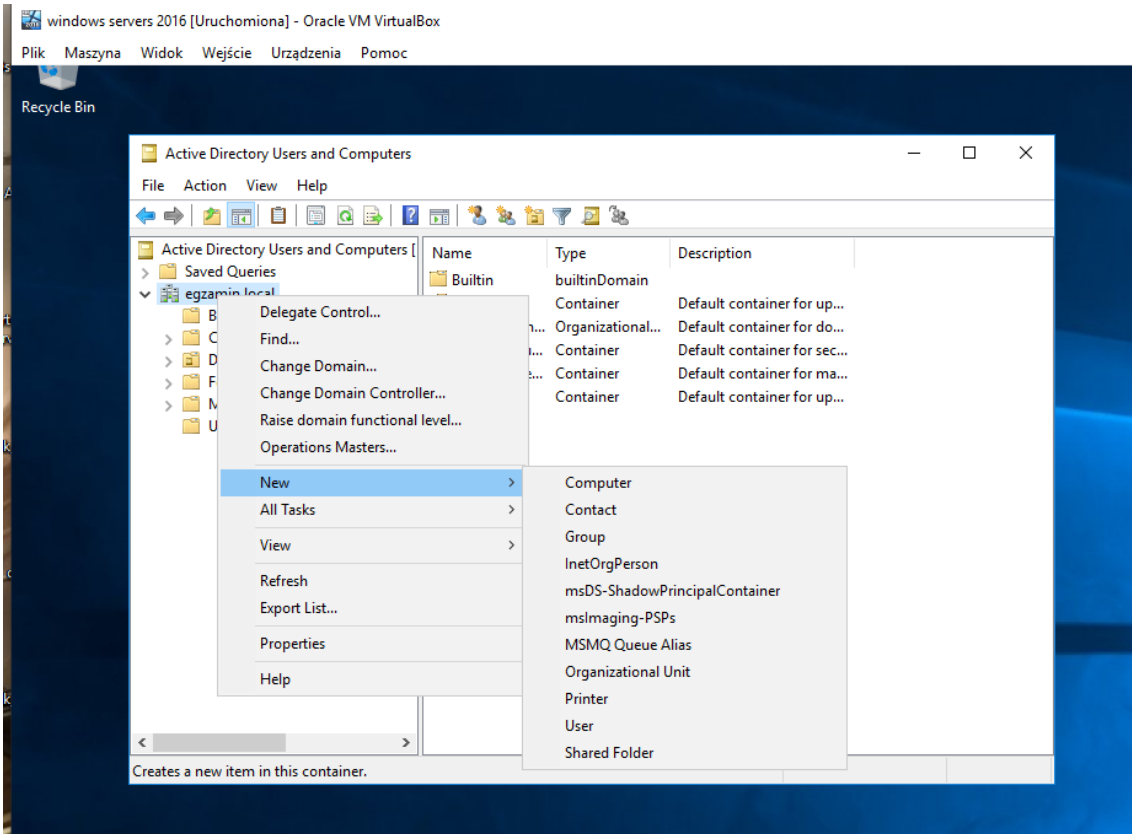




## 2.1 Jednostka organizacyjna, grupa, użytkownik



Najpierw zostanie utworzona jednostka organizacyjna (Organizational Unit), następnie użytkownik i grupa. Dalej użytkownik zostanie dodany do grupy.



Active Directory Users and Computers

### New Object - User

Create in: egzamin.local/szkola

First name:  Initials:

Last name:

Full name:

User logon name:  @egzamin.local

User logon name (pre-Windows 2000):

< Back   Next >   Cancel

Active Directory: Users and Computers

### New Object - User

Create in: egzamin.local/szkola

Password:

Confirm password:

User must change password at next logon

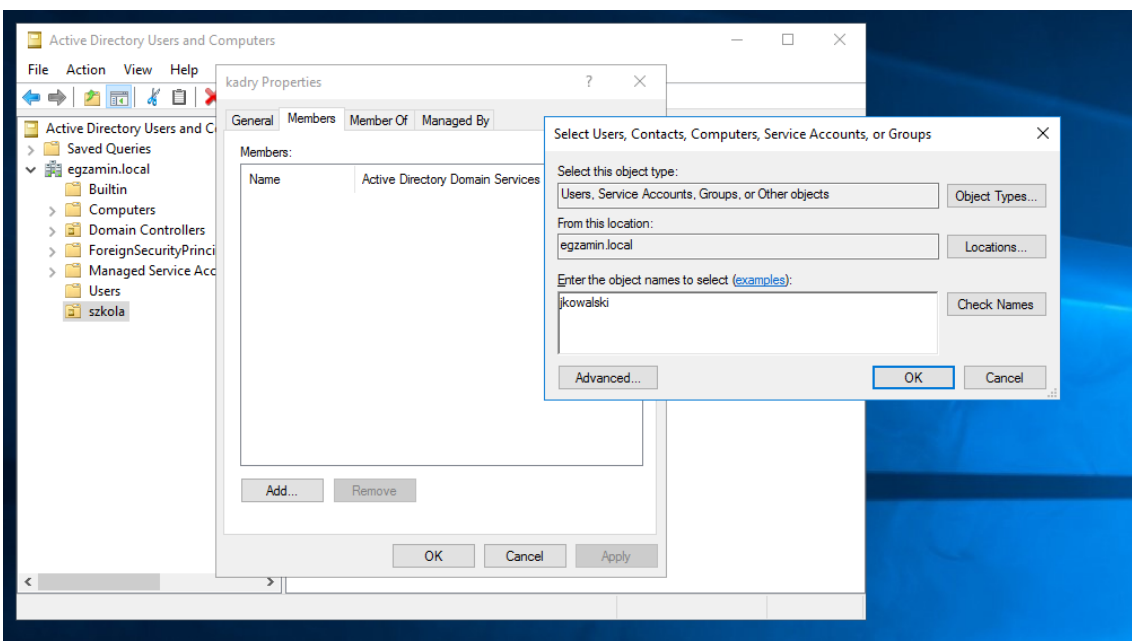
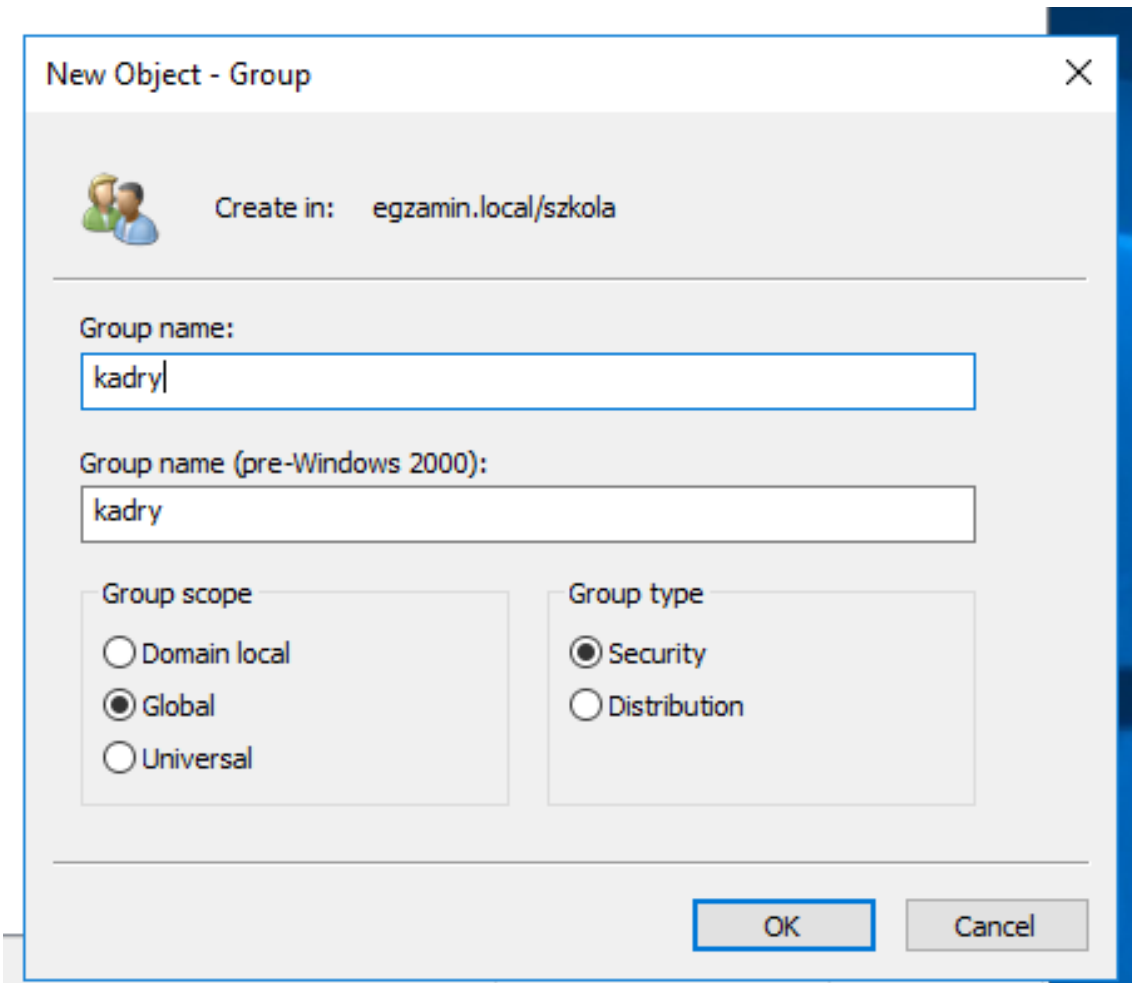
User cannot change password

Password never expires

Account is disabled

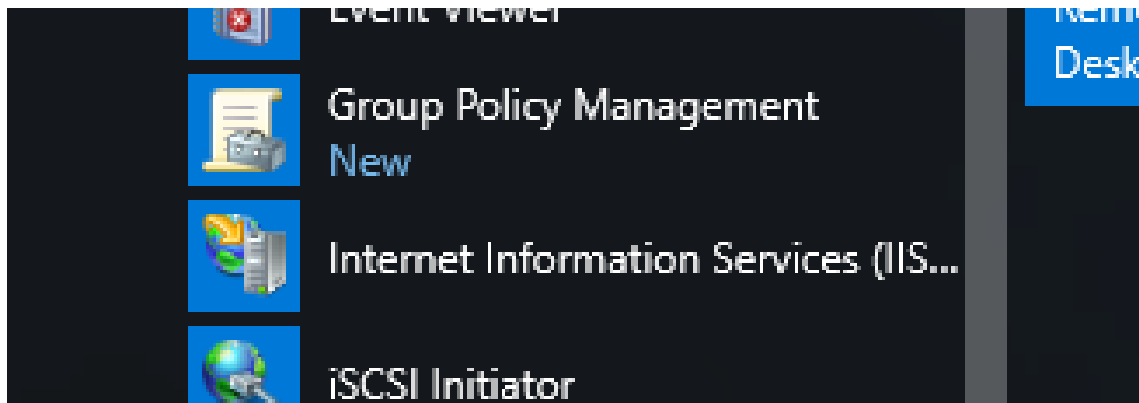
< Back   Next >   Cancel



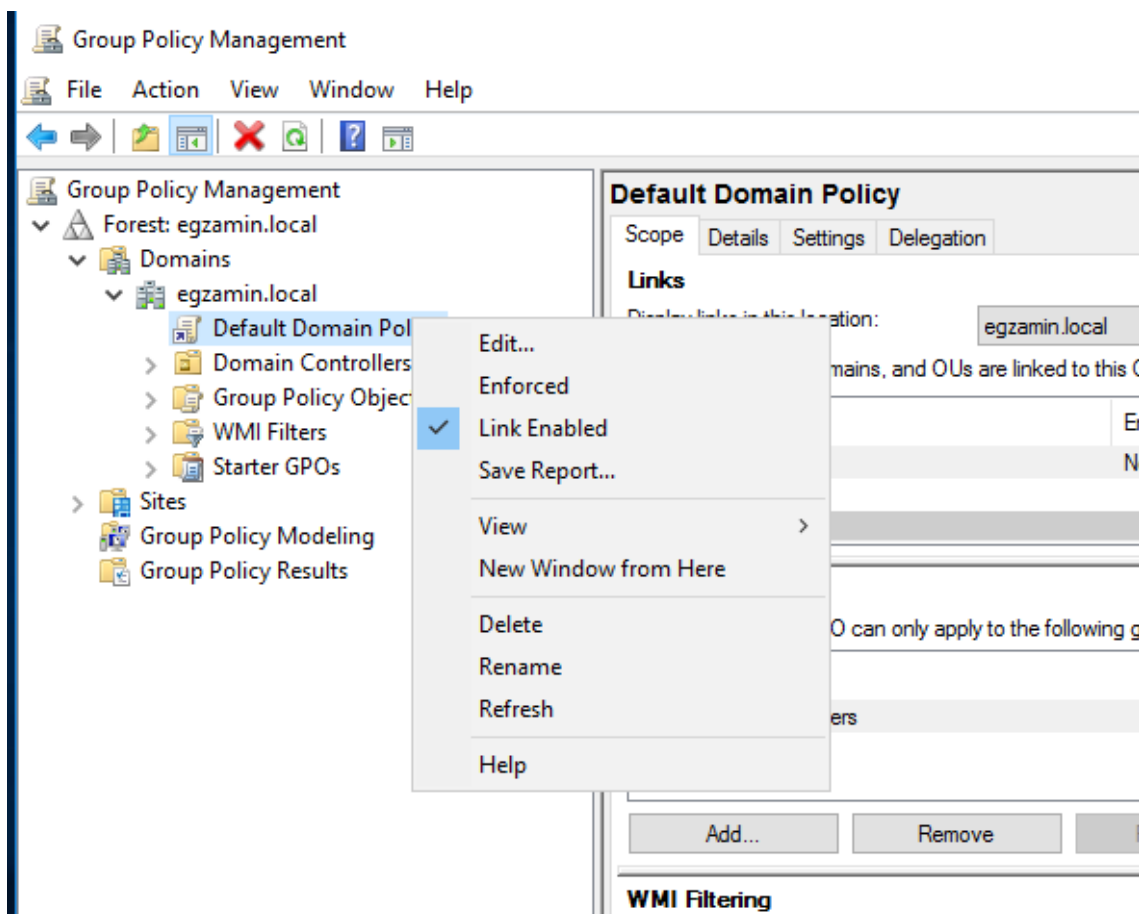


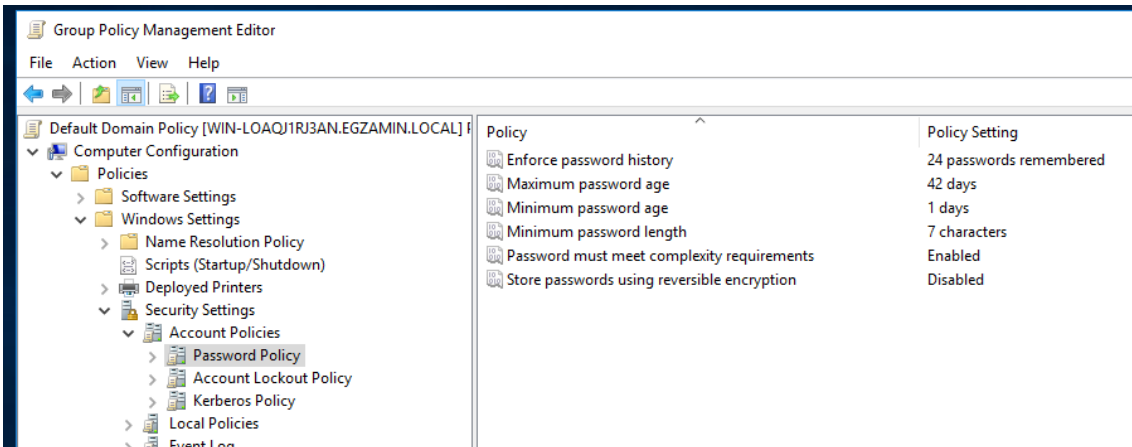
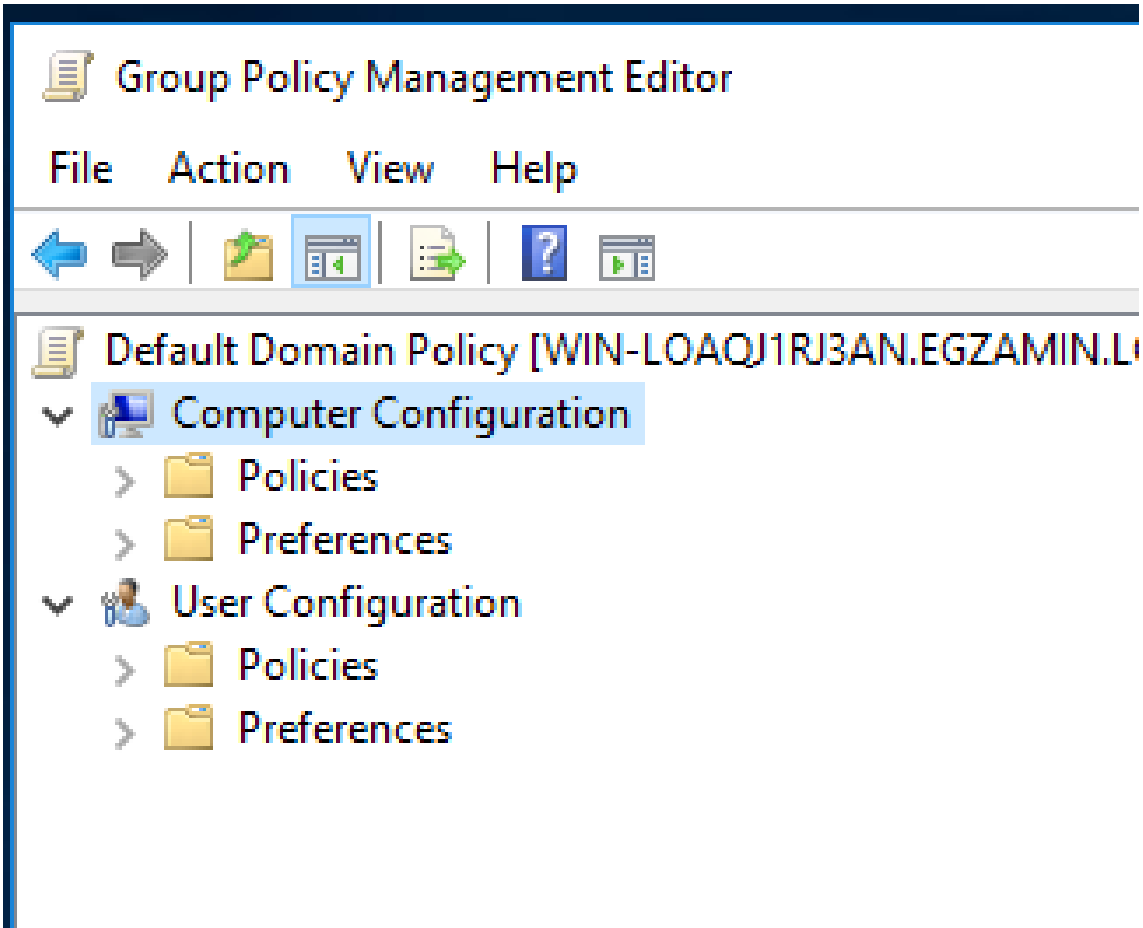
## 2.2 Zasady grupy - Group Policy Management

Zasady grupy pozwalają tak jak nazwa wskazuje na regulowania różnorodnych uprawnień dla użytkowników korzystających z domeny. W tym przykładzie pokazano jak wyłączyć wymagania dotyczące złożoności hasła w domenie.

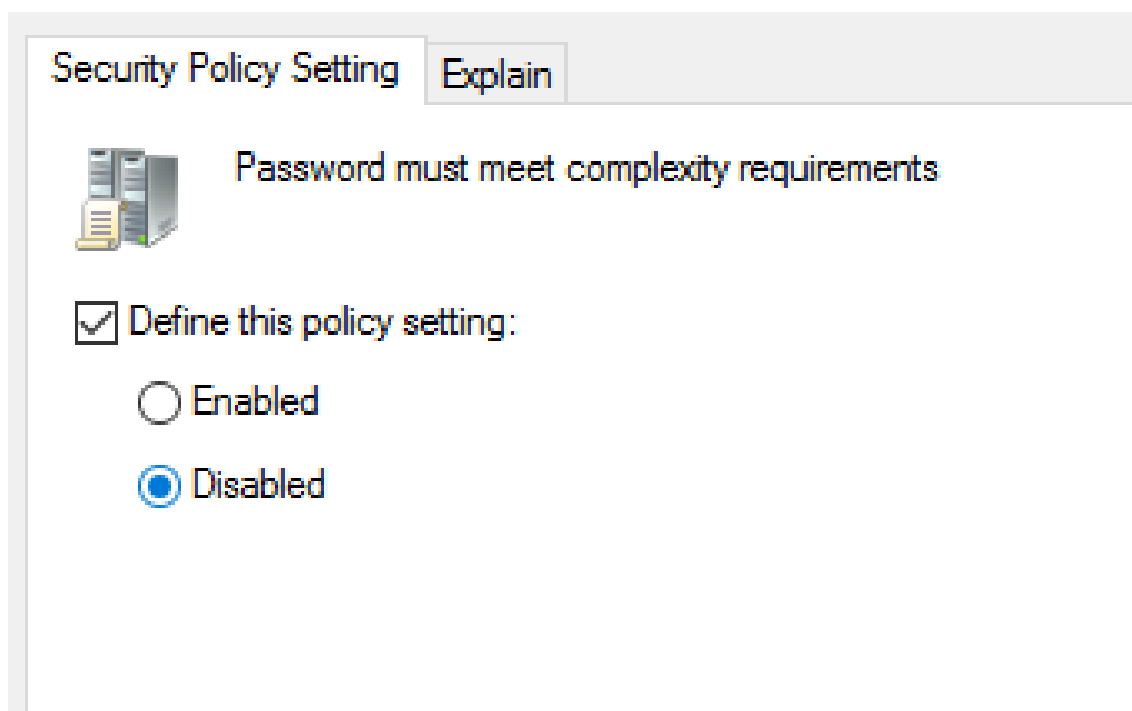


Należy edytować domyślne zasady dla domeny.



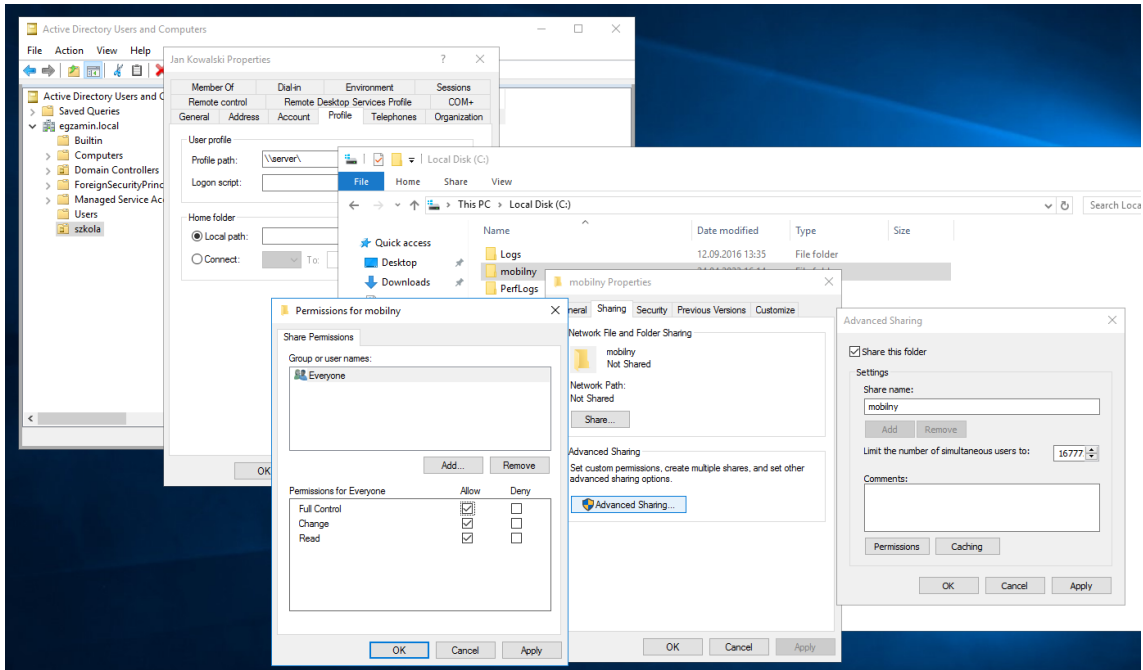


## Password must meet complexity requirements Properties

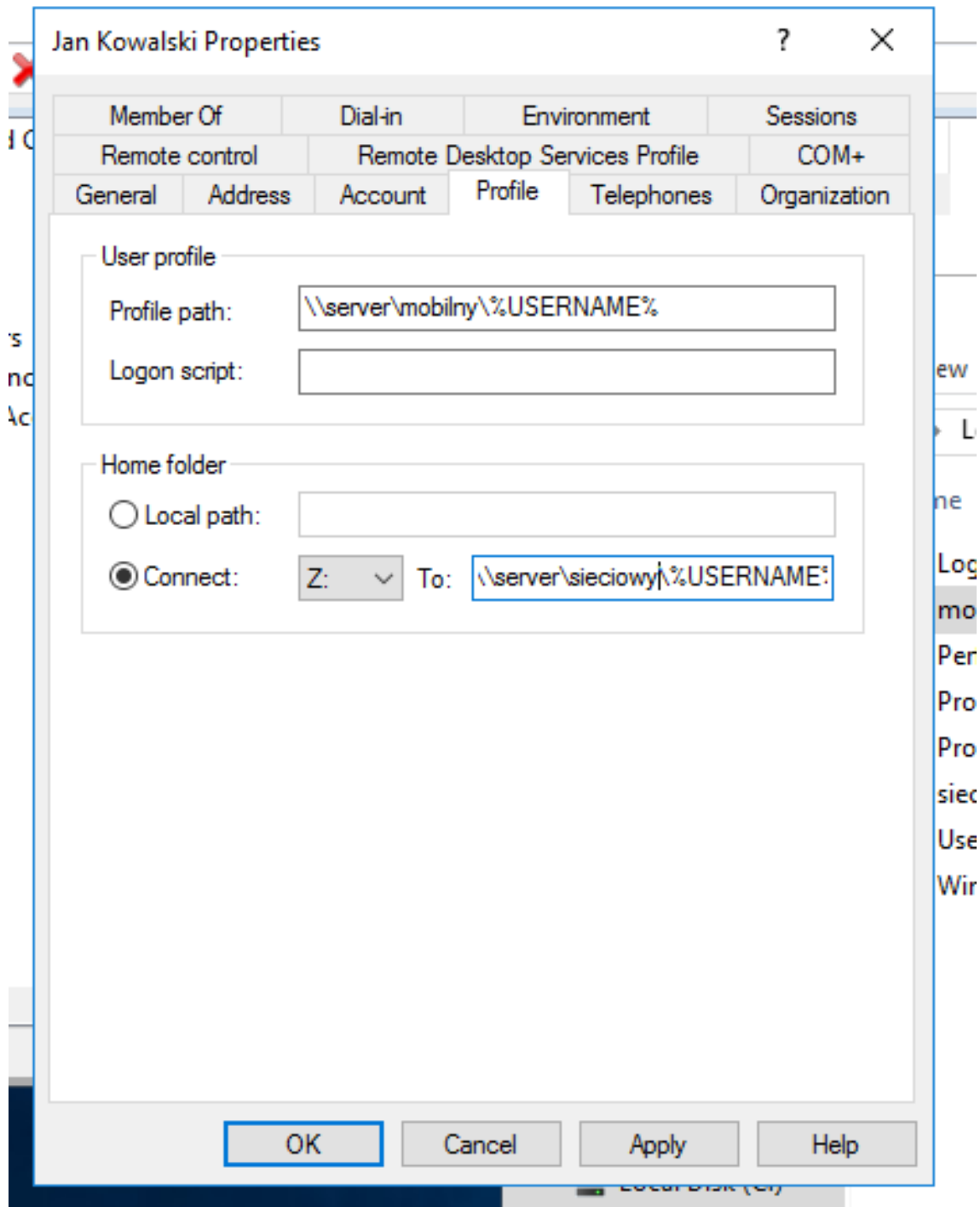


### 2.3 Profil mobilny i folder sieciowy

Profil mobilny pozwala na automatyczne przenoszenie zawartości folderów osobistych użytkownika (np. Pulpit, Dokumenty) przy logowaniu na inne komputery. Folder sieciowy to lokalizacja sieciowa dostępna dla użytkownika po za logowaniem i dostępna w oknie Komputer. Należy utworzyć dwa foldery i udostępnić je w sieci jak pokazano poniżej. Zamiast nazwy "server" należy wpisać rzeczywistą nazwę serwera.

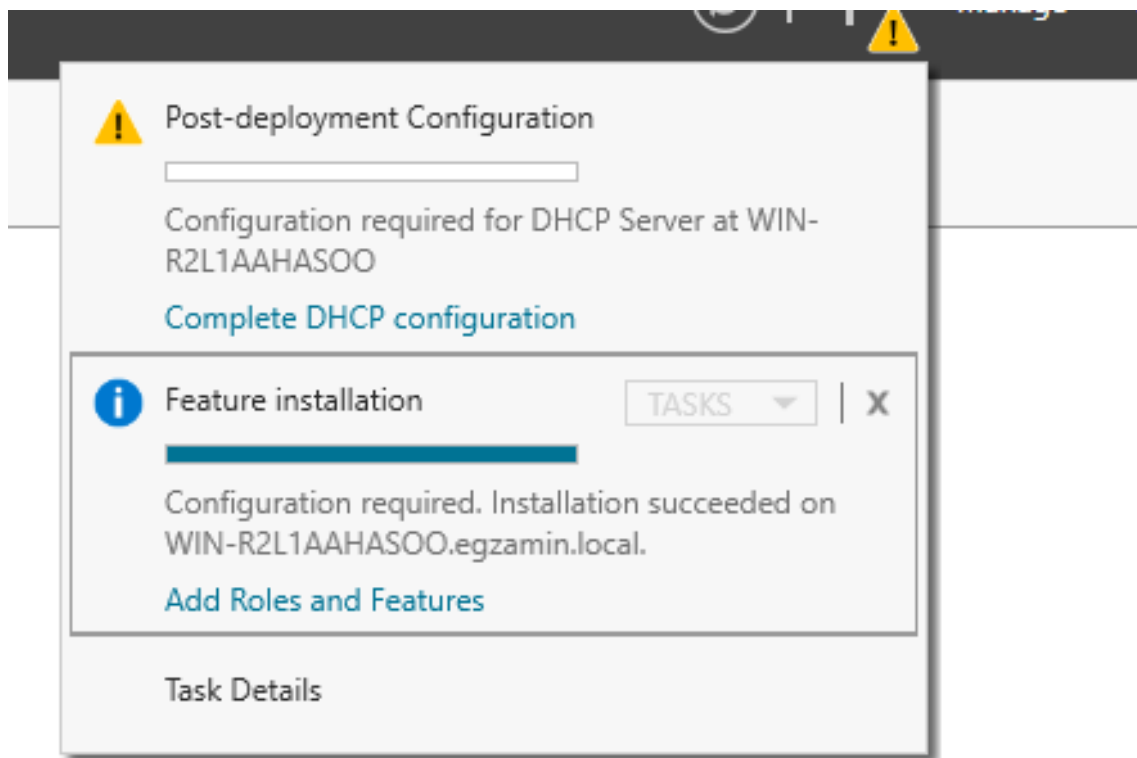
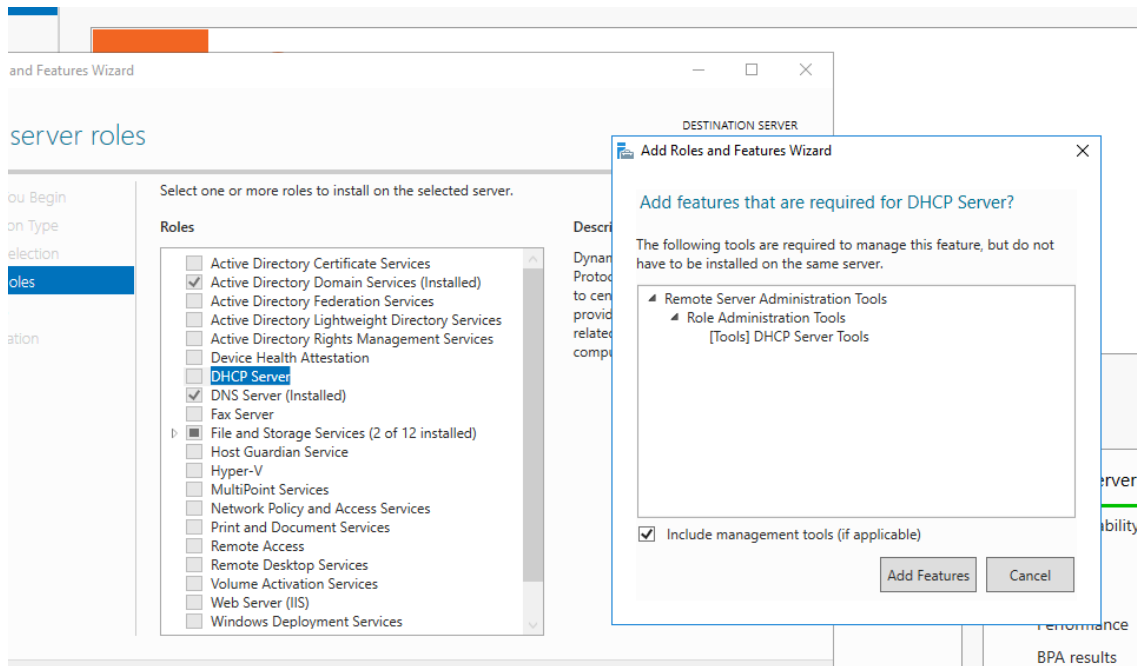


Słowo %USERNAME% pozwala na automatyczną podmianę nazwy użytkownika przy kopiowaniu konta.



### 3 DHCP

DHCP umożliwia dynamiczne przydzielanie adresów IP komputerom w sieci lokalnej.



## Authorization

Description

Authorization

Summary

Specify the credentials to be used to authorize this DHCP server in AD DS.

Use the following user's credentials

User Name:

Use alternate credentials

UserName:

Skip AD authorization

< Previous

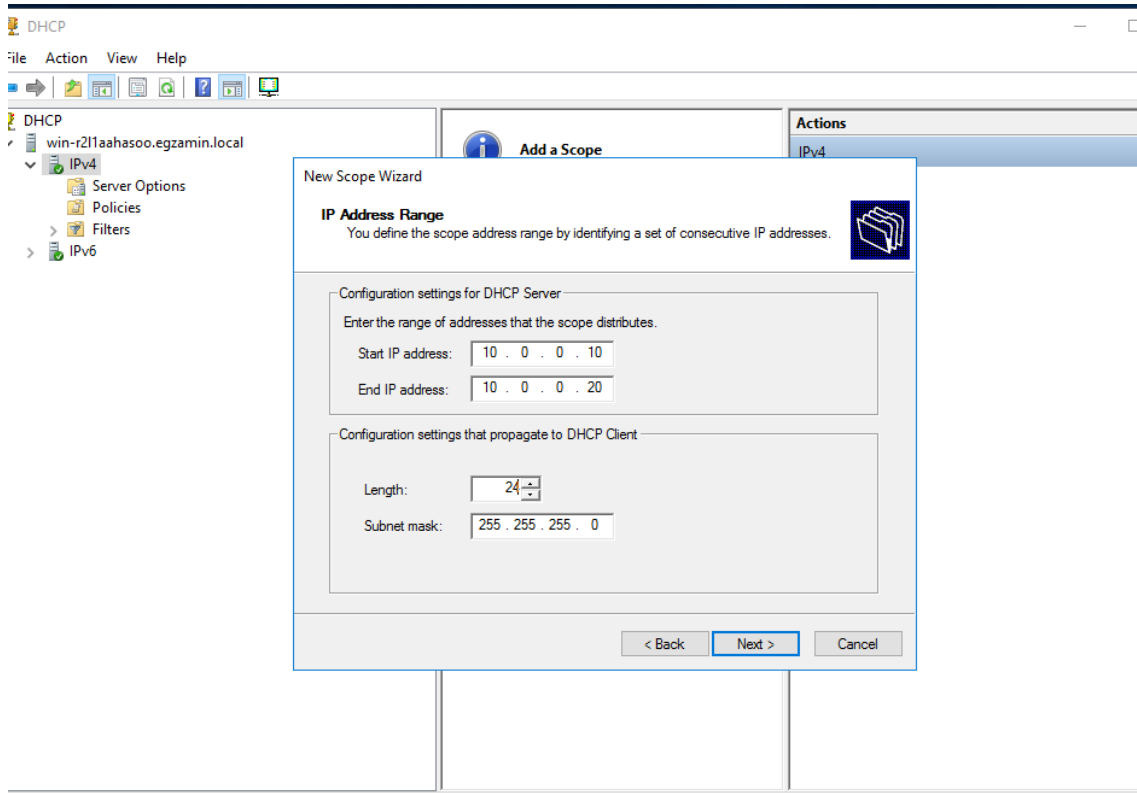
Next >

Commit

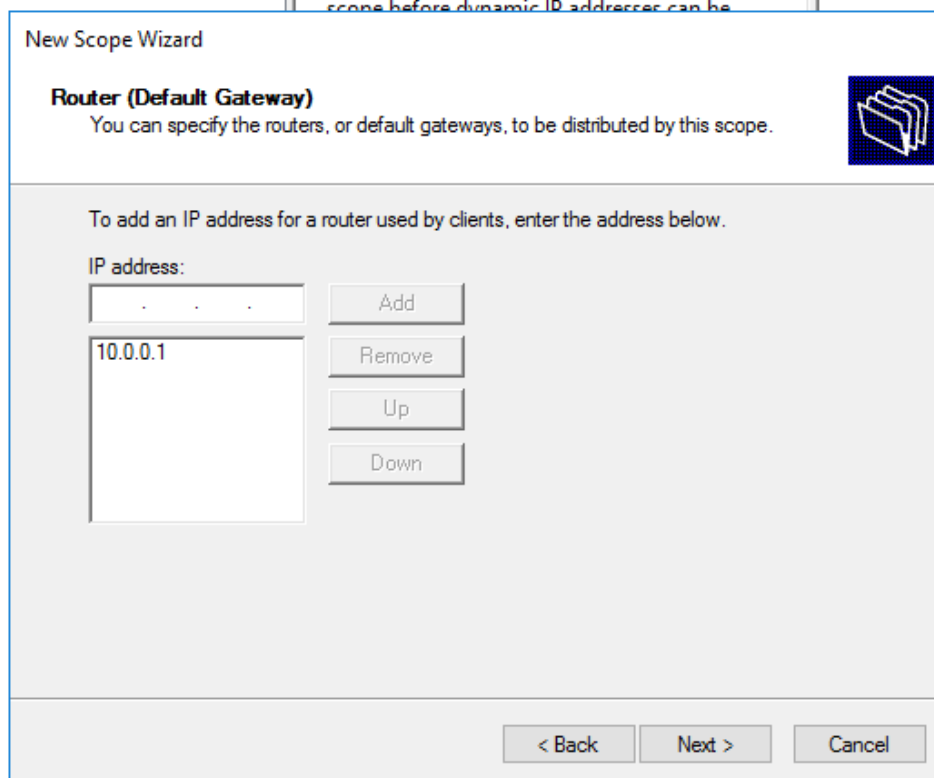
Cancel

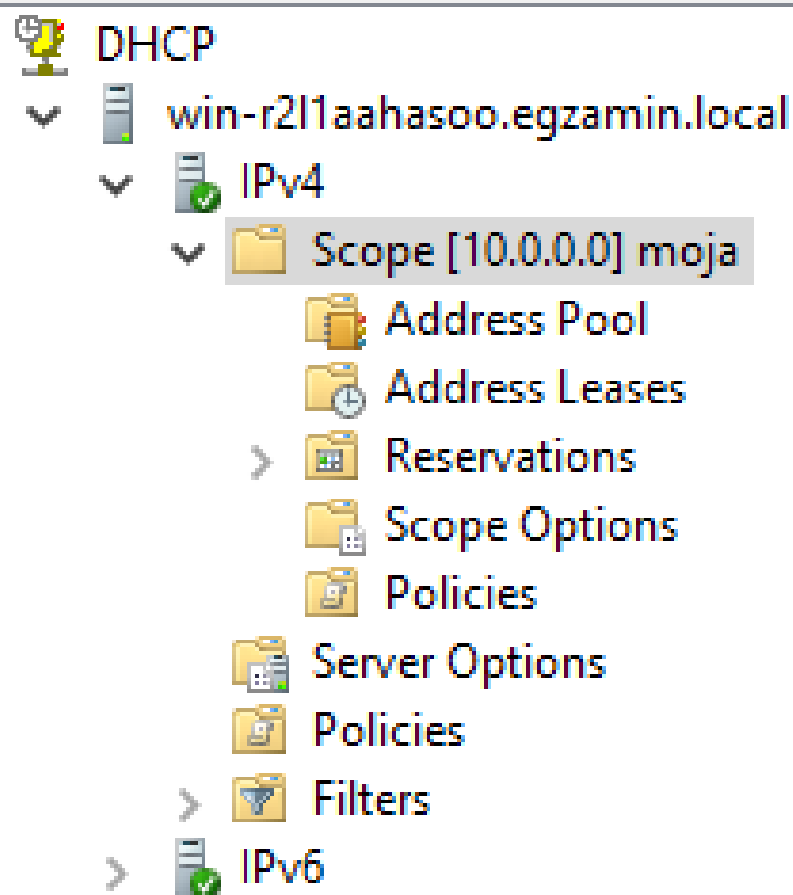


The screenshot shows the DHCP console interface. The top menu bar includes 'File', 'Action', 'View', and 'Help'. Below the menu bar is a toolbar with various icons. The left pane shows a tree view with 'DHCP' expanded to 'win-r211aahasoo.egzamin.local', which is further expanded to 'IPv4'. A context menu is open over the 'IPv4' folder, listing the following options: 'Display Statistics...', 'New Scope...', 'New Multicast Scope...', 'Configure Failover...', 'Replicate Failover Scopes...', 'Define User Classes...', 'Define Vendor Classes...', 'Reconcile All Scopes...', 'Set Predefined Options...', 'View', 'Refresh', 'Properties', and 'Help'. The right pane displays an information panel titled 'Add a Scope' with an information icon. The text in the panel reads: 'A scope is a range of IP addresses assigned to computers requesting a dynamic IP address. You must create and configure a scope before dynamic IP addresses can be assigned. To add a new scope, on the Action menu, click New Scope. For more information about setting up a DHCP server, see online Help.'

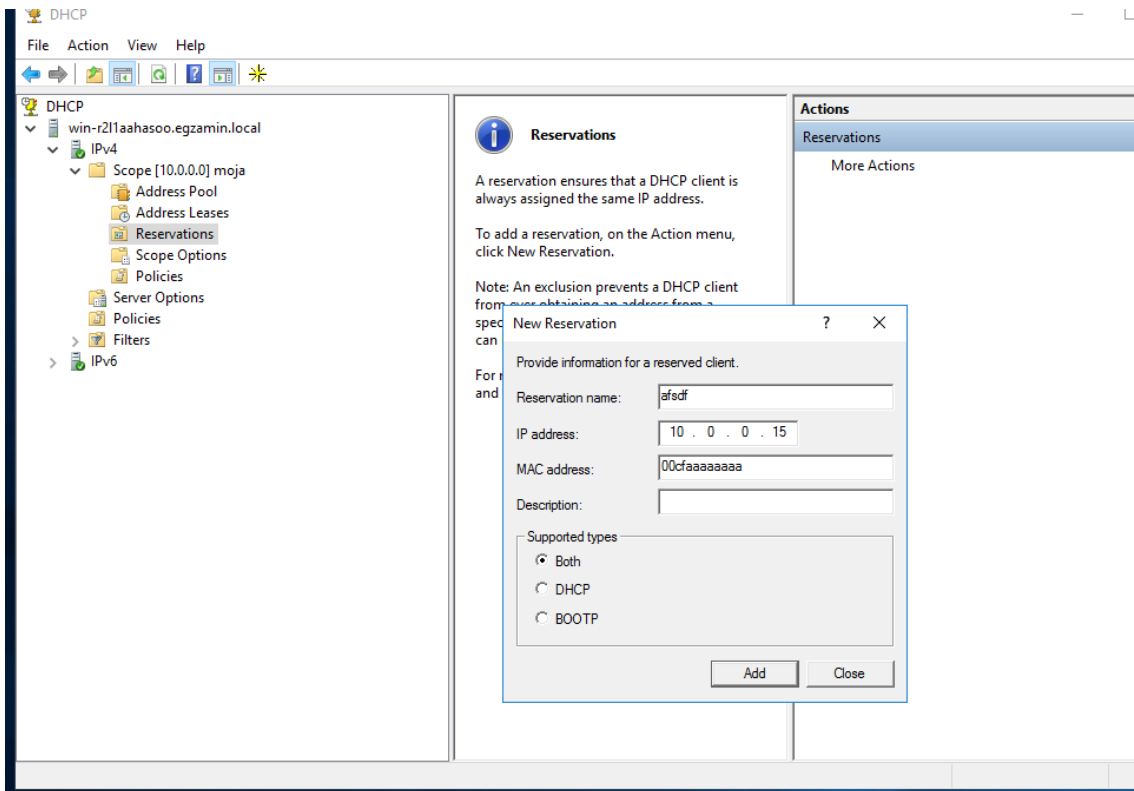


to computers requesting a dynamic IP address. You must create and configure a scope before dynamic IP addresses can be

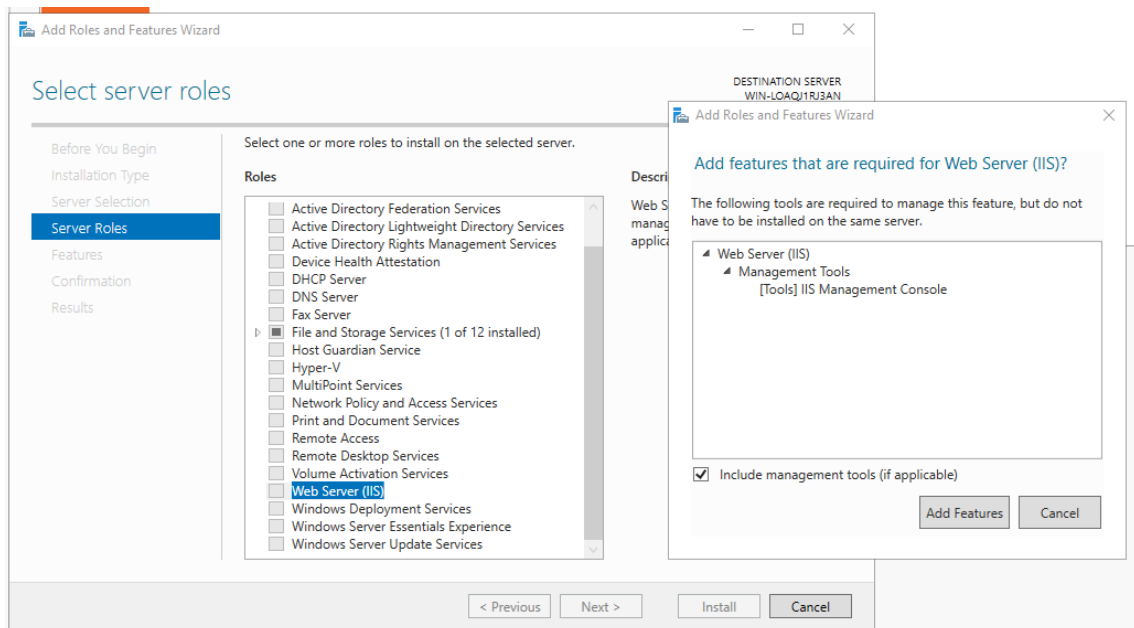




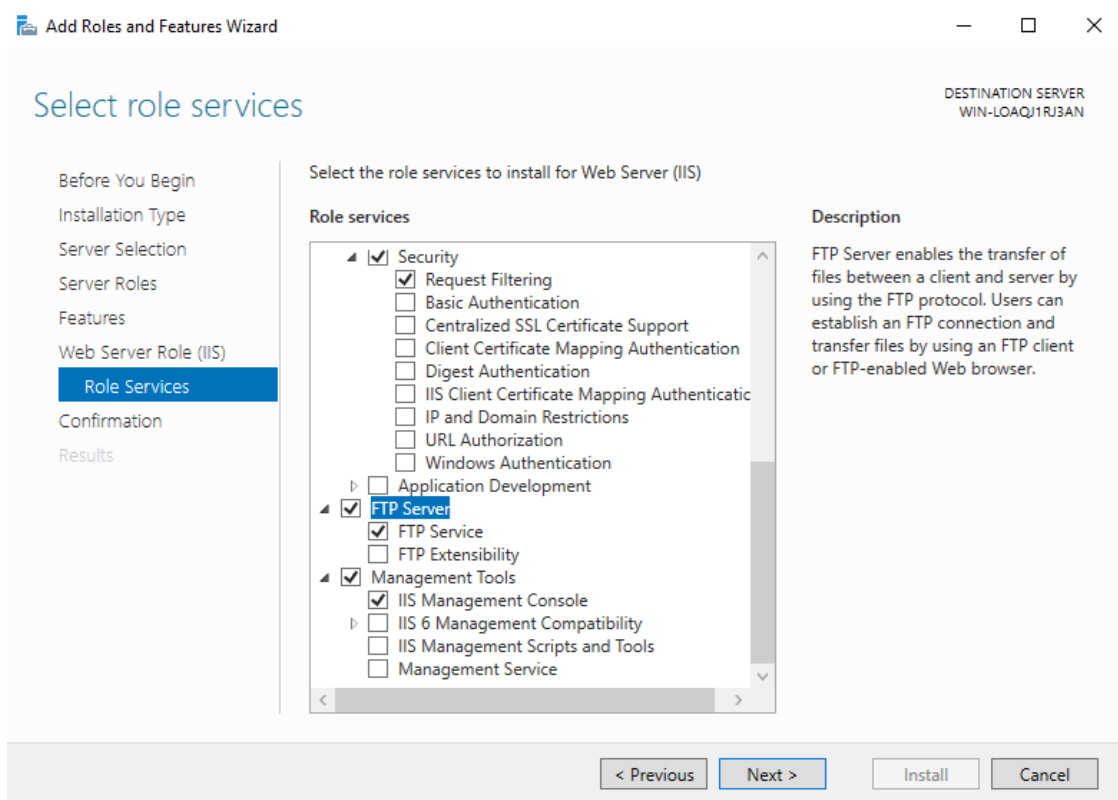
### 3.1 Rezerwacja adresu

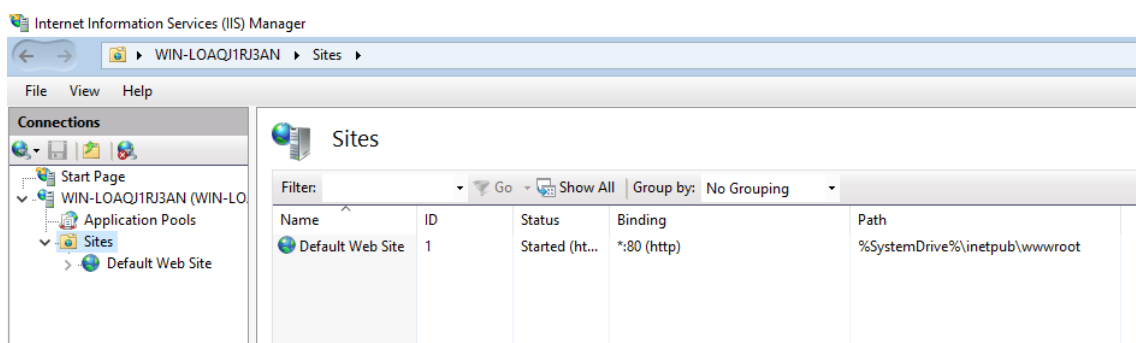
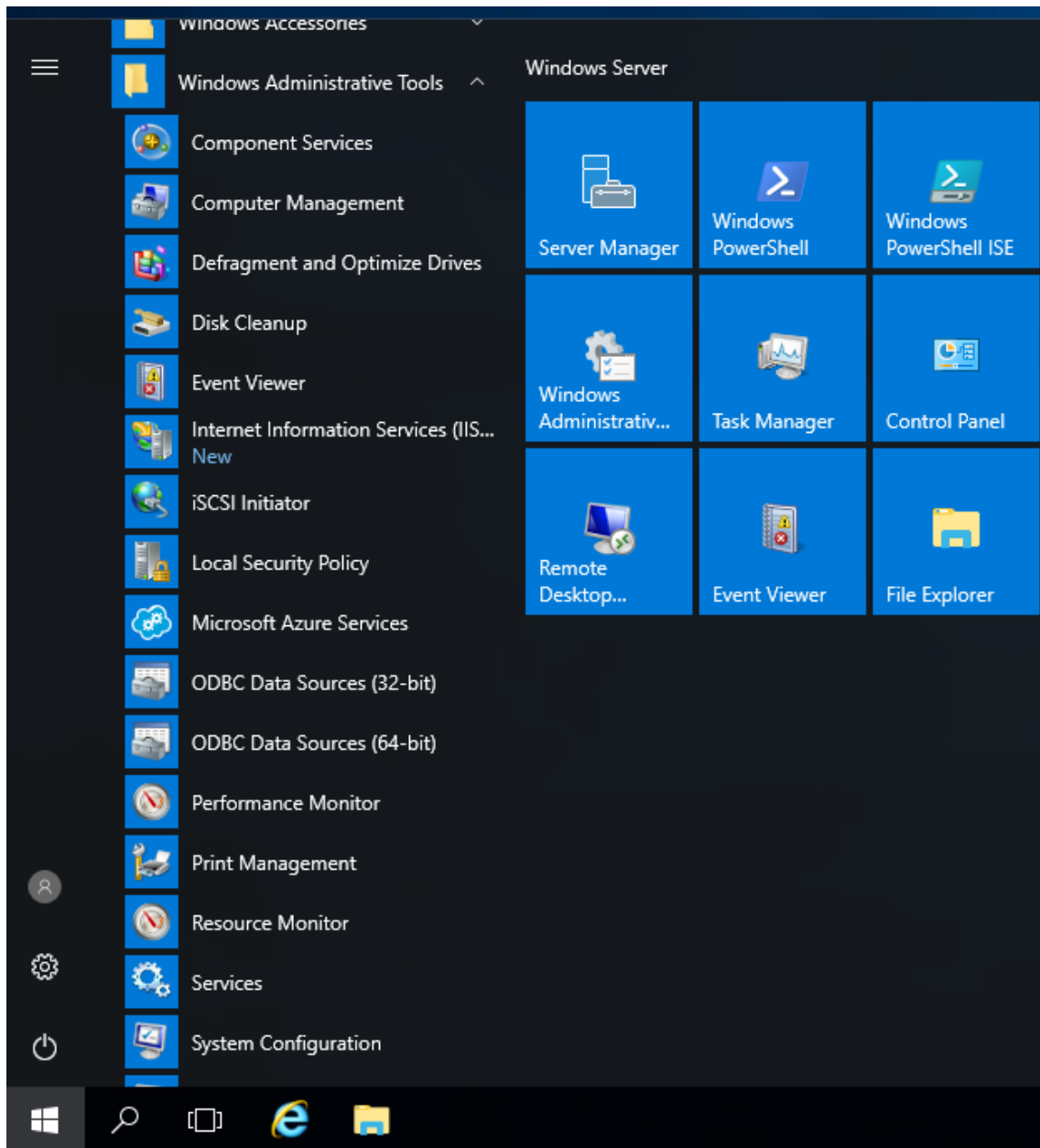


## 4 Serwer IIS (Stron Internetowych)



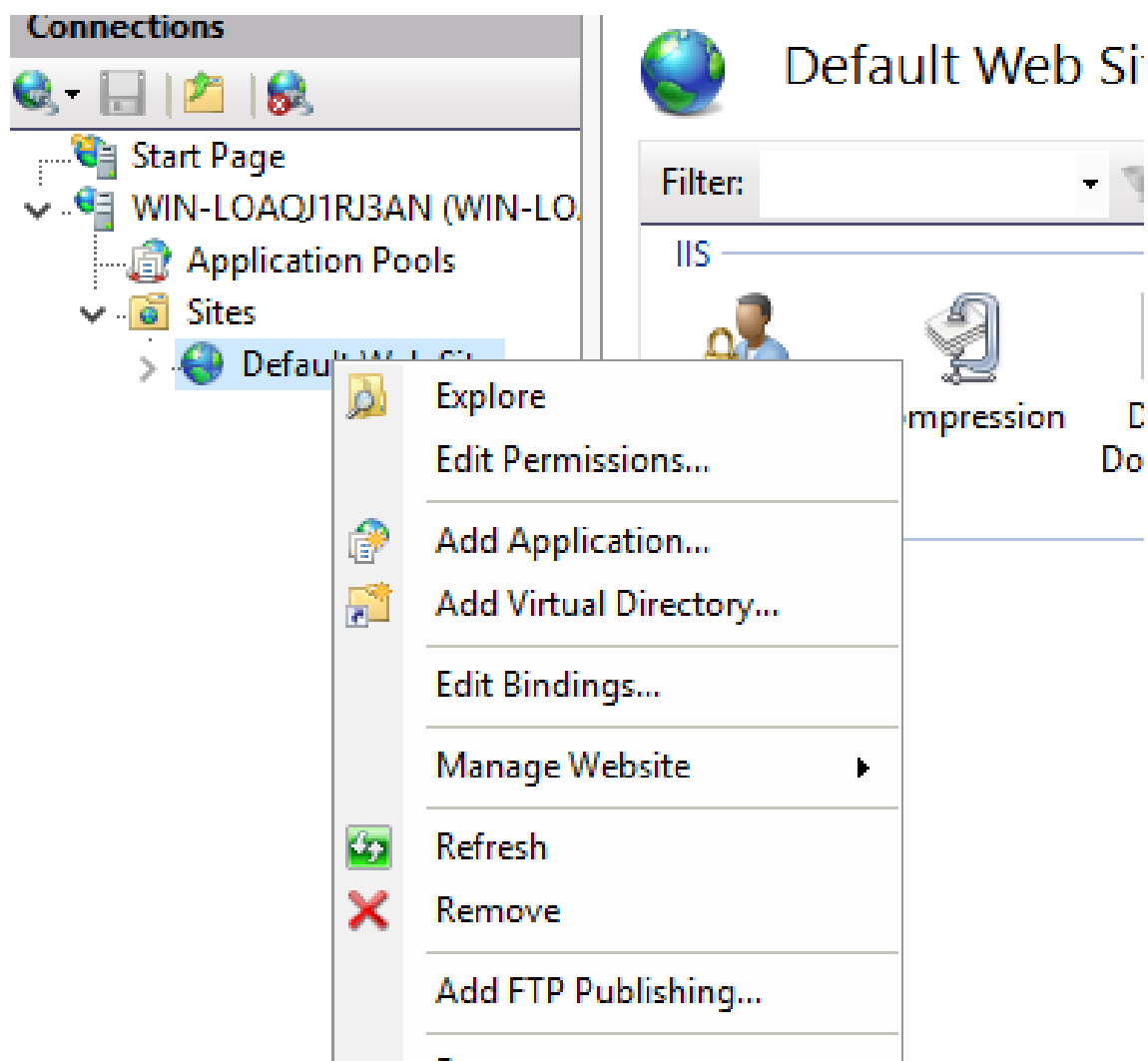
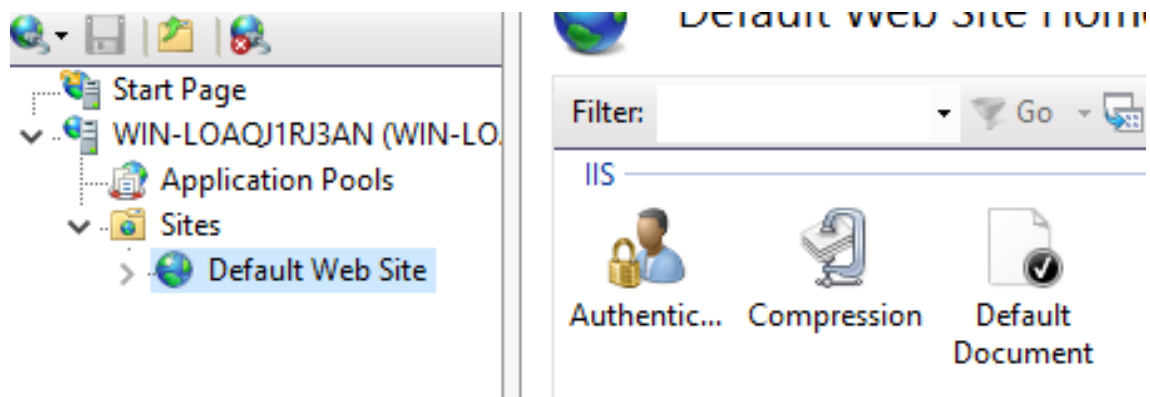
Przy okazji można zainstalować serwer FTP jeśli taki jest wymagany.



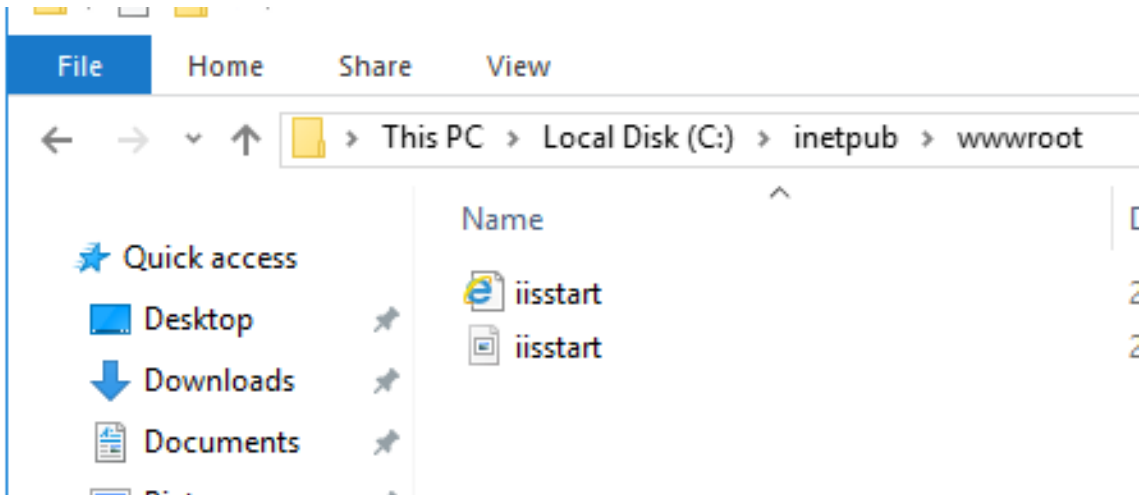


W zakładce Default Document można dodać do listy nazwę dokumentu domyślnego in-

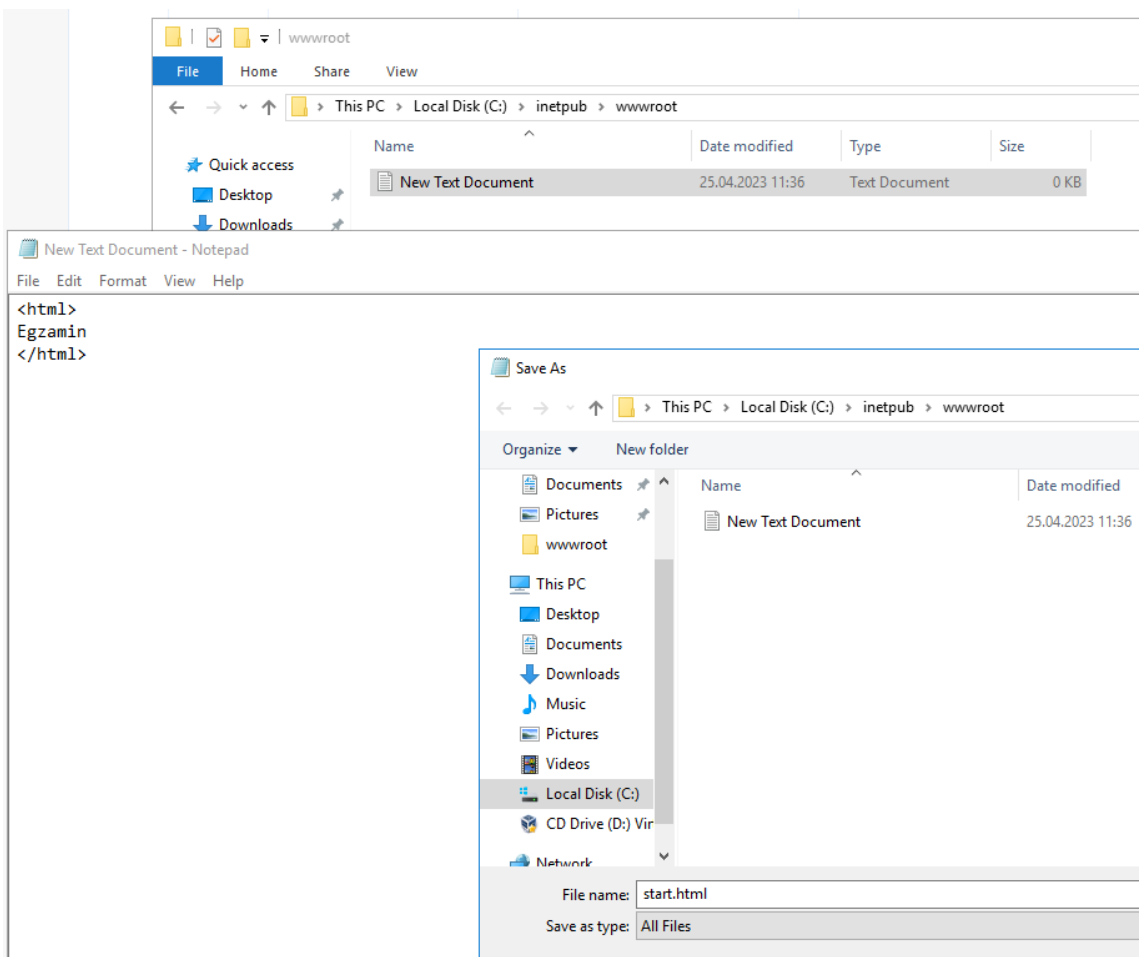
nego niż standardowe. (Np. inny niż index.html)



Usuwanie domyślnych plików witryny.

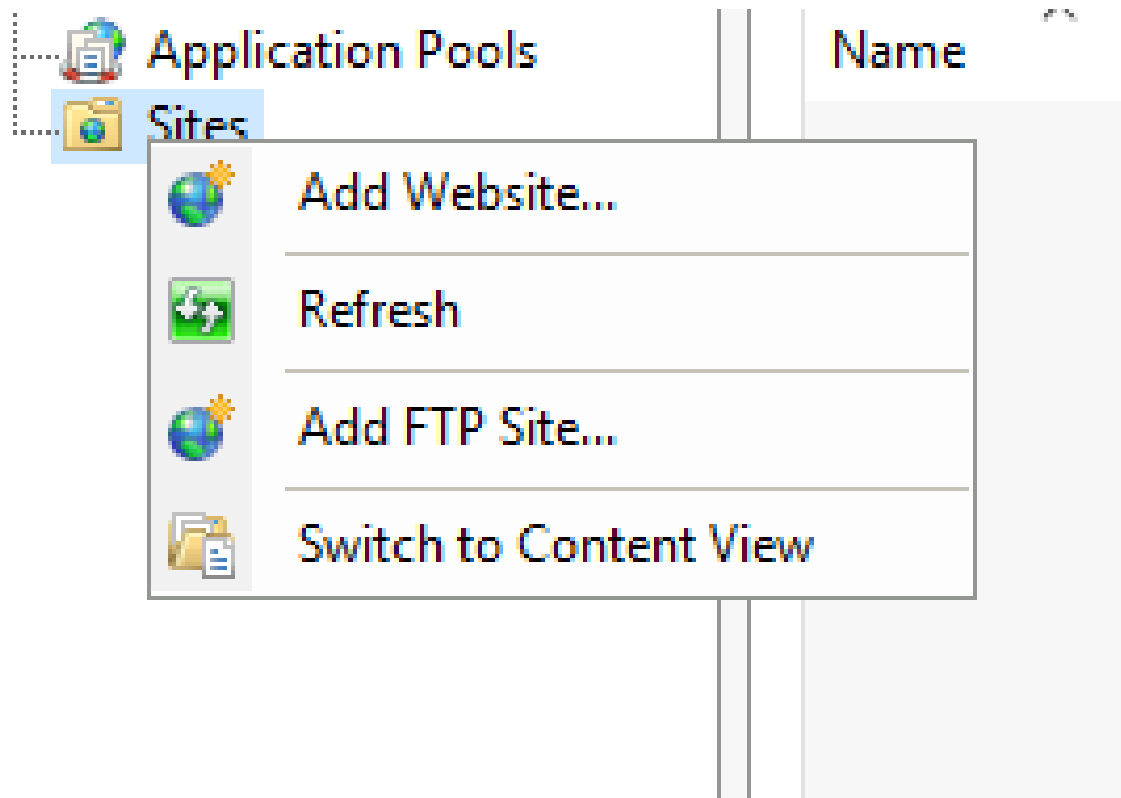


Stworzenie pliku tekstowego, wpisanie prostego kodu html, zapisanie jako start.html z typem all files.



Dodanie nowej witryny.





**Add Website**

Site name:  Application pool:

**Content Directory**

Physical path:

Pass-through authentication

**Binding**

Type:	IP address:	Port:
<input type="text" value="http"/>	<input type="text" value="10.0.0.1"/>	<input type="text" value="80"/>

Host name:

Example: www.contoso.com or marketing.contoso.com

Start Website immediately

Jeśli po wpisaniu adresu IP w przeglądarce pojawia się poniższy komunikat to znaczy, że trzeba dodać nazwę domyślnego pliku do listy.



Dodawanie nazwy start.html to listy domyślnych plików.

Name	Entry Type
Default.htm	Inherited
Default.asp	Inherited
index.htm	Inherited
index.html	Inherited
iisstart.htm	Inherited

Add Default Document

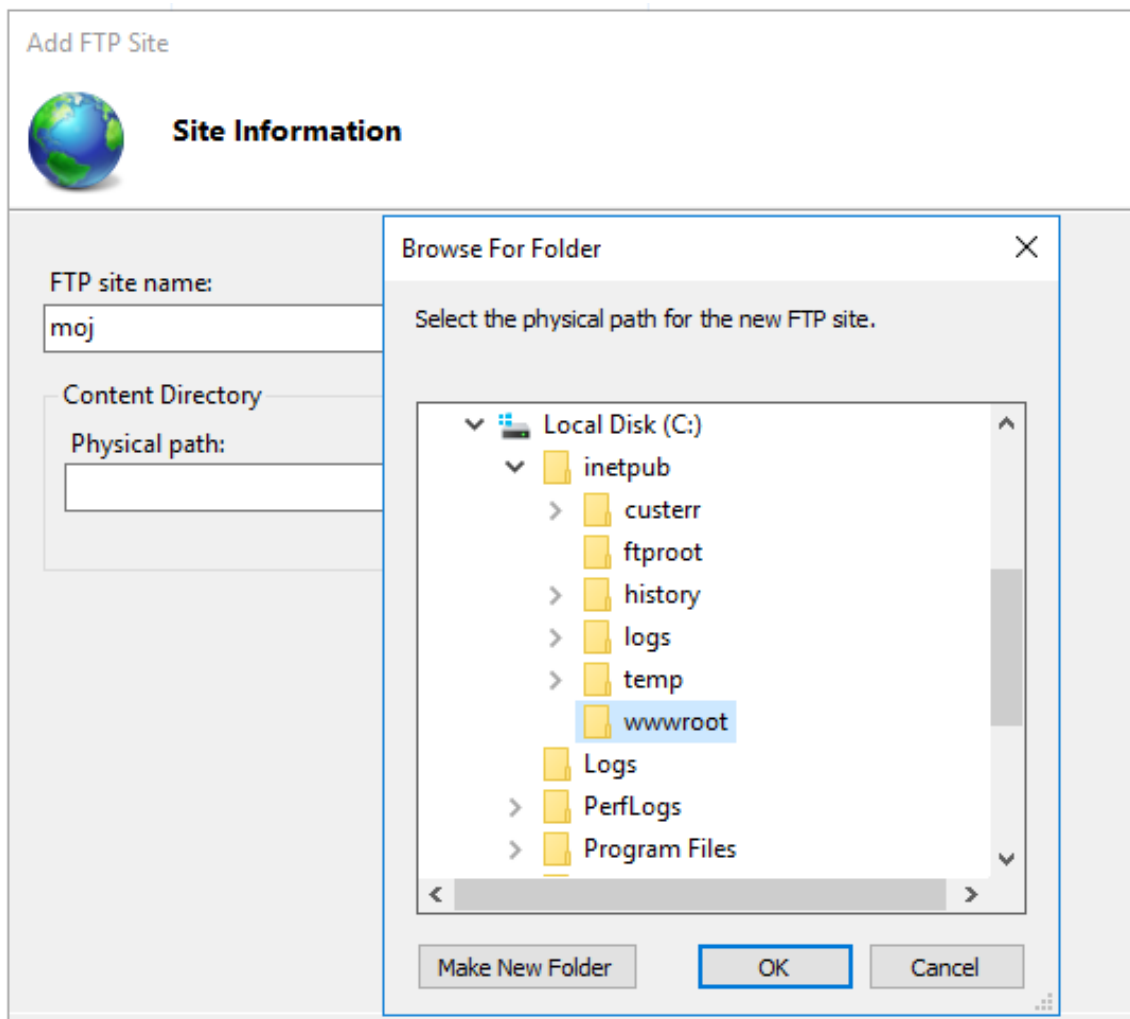
Name:

OK Cancel

Test konfiguracji strony internetowej.



## 4.1 Konfiguracja serwera plików ftp



Add FTP Site



**Site Information**

FTP site name:

moj

Content Directory

Physical path:

Browse For Folder



Select the physical path for the new FTP site.


- ▼ Local Disk (C:)
  - ▼ inetpub
    - > custerr
    - ftproot
    - > history
    - > logs
    - > temp
    - wwwroot
  - Logs
  - > PerfLogs
  - > Program Files

Make New Folder

OK

Cancel

Add FTP Site



## Authentication and Authorization Information

**Authentication**

- Anonymous
- Basic

**Authorization**

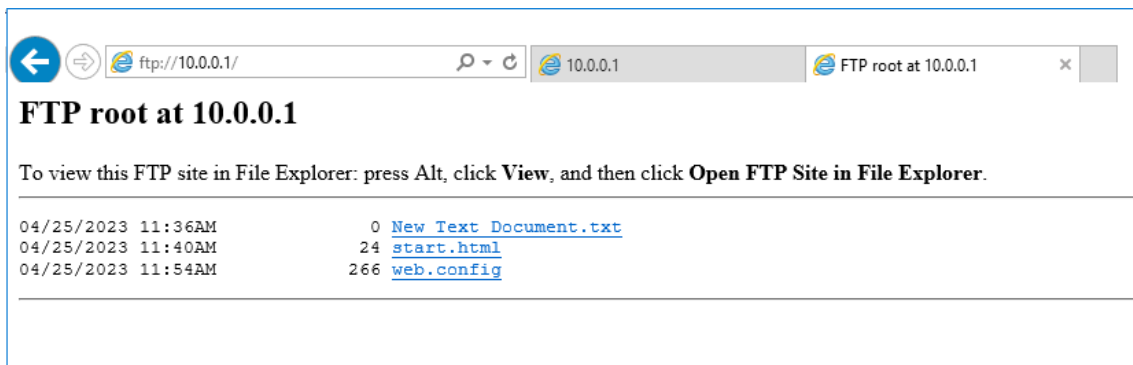
Allow access to:

All users

**Permissions**

- Read
- Write

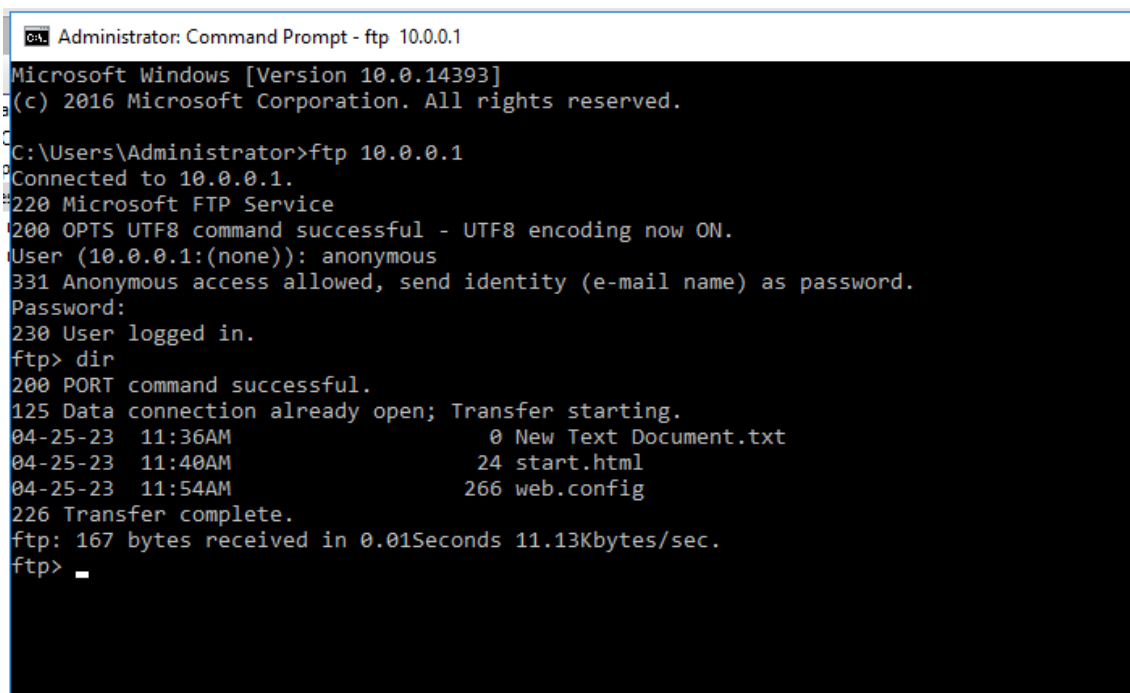
Test konfiguracji serwera ftp w przeglądarce.



The screenshot shows a web browser window with the address bar containing "ftp://10.0.0.1/". The page title is "FTP root at 10.0.0.1". Below the title, there is a message: "To view this FTP site in File Explorer: press Alt, click View, and then click Open FTP Site in File Explorer." A table of files is displayed:

04/25/2023 11:36AM	0	<a href="#">New Text Document.txt</a>
04/25/2023 11:40AM	24	<a href="#">start.html</a>
04/25/2023 11:54AM	266	<a href="#">web.config</a>

Test konfiguracji serwera ftp w cmd.

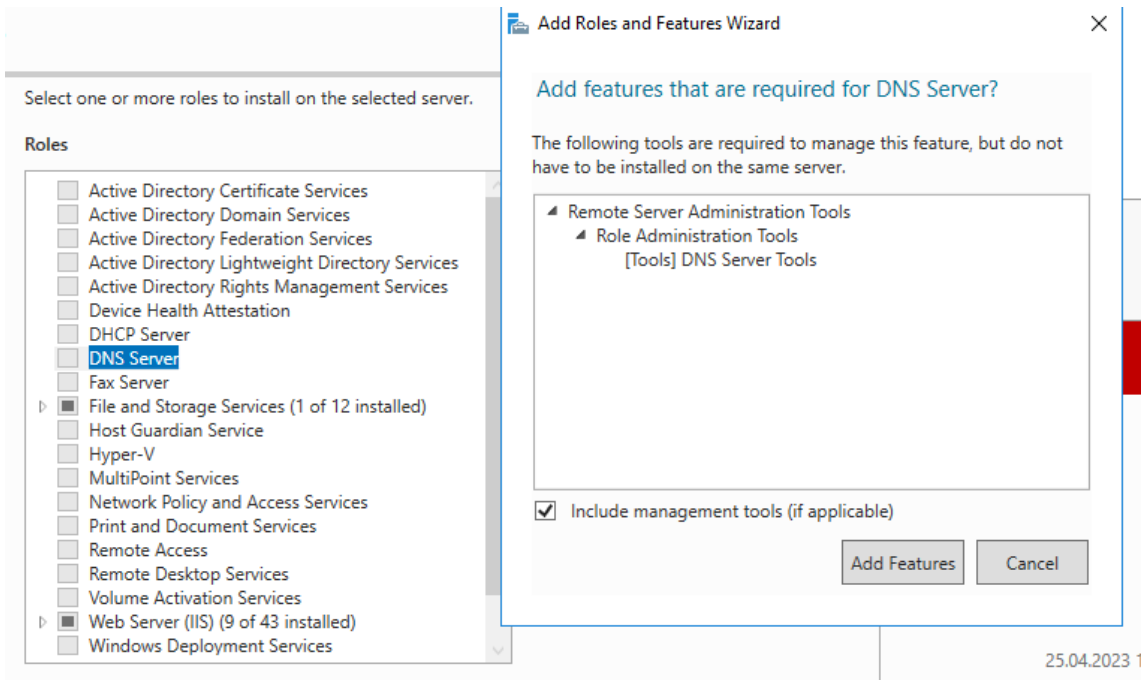


```
Administrator: Command Prompt - ftp 10.0.0.1
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ftp 10.0.0.1
Connected to 10.0.0.1.
220 Microsoft FTP Service
200 OPTS UTF8 command successful - UTF8 encoding now ON.
User (10.0.0.1:(none)): anonymous
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
ftp> dir
200 PORT command successful.
125 Data connection already open; Transfer starting.
04-25-23 11:36AM          0 New Text Document.txt
04-25-23 11:40AM          24 start.html
04-25-23 11:54AM        266 web.config
226 Transfer complete.
ftp: 167 bytes received in 0.01Seconds 11.13Kbytes/sec.
ftp> _
```

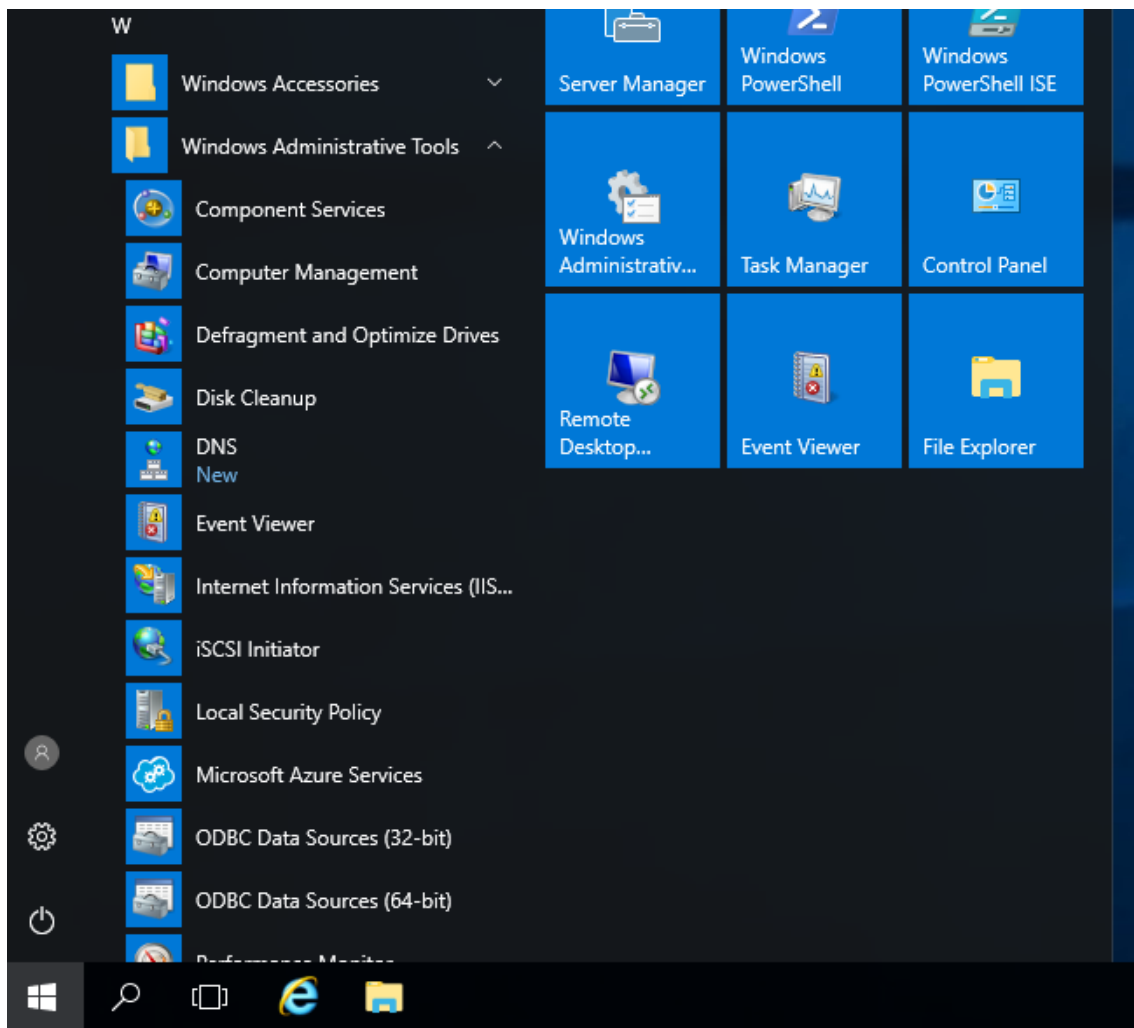
## 5 Konfiguracja nazwy domenowej dla strony internetowej

Jeśli nie została zainstalowana usługa DNS wcześniej (np. z usługą Active Directory) należy zainstalować ją osobno. w przeciwnym wypadku należy pominąć poniższy krok.

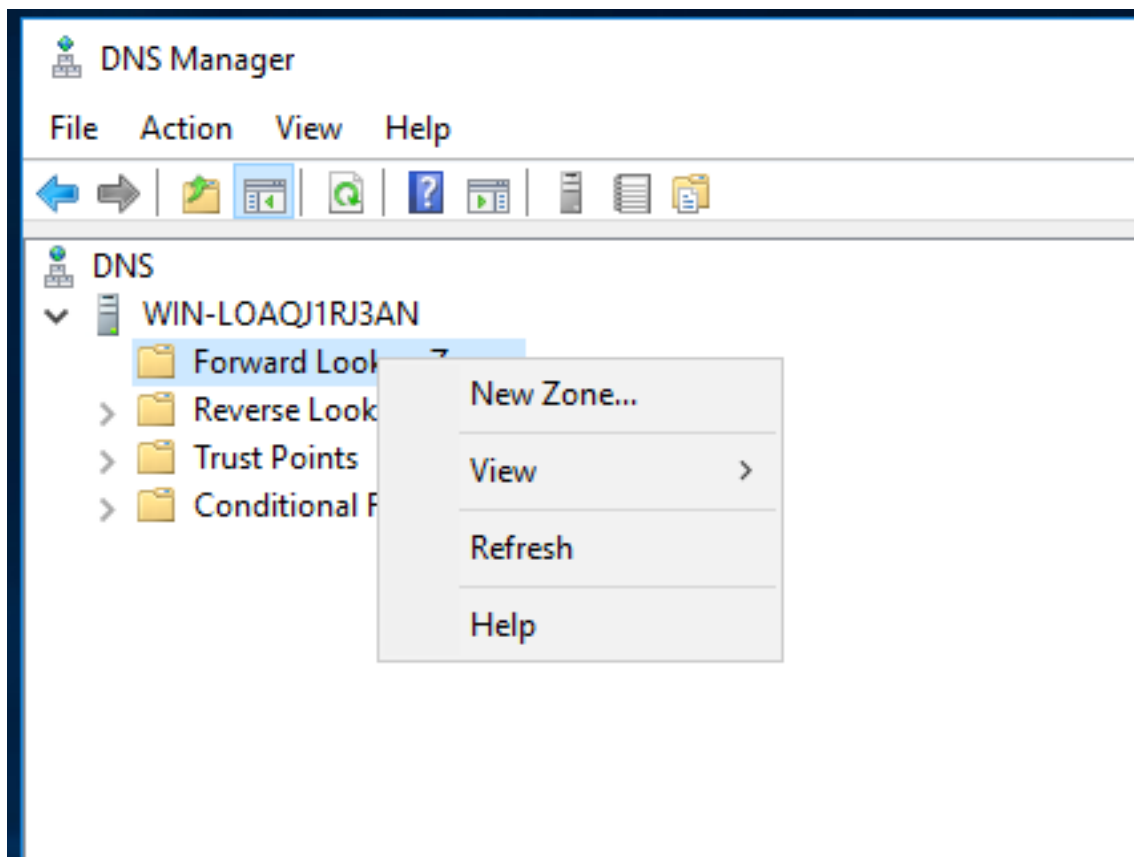


Należy otworzyć przystawkę DNS.

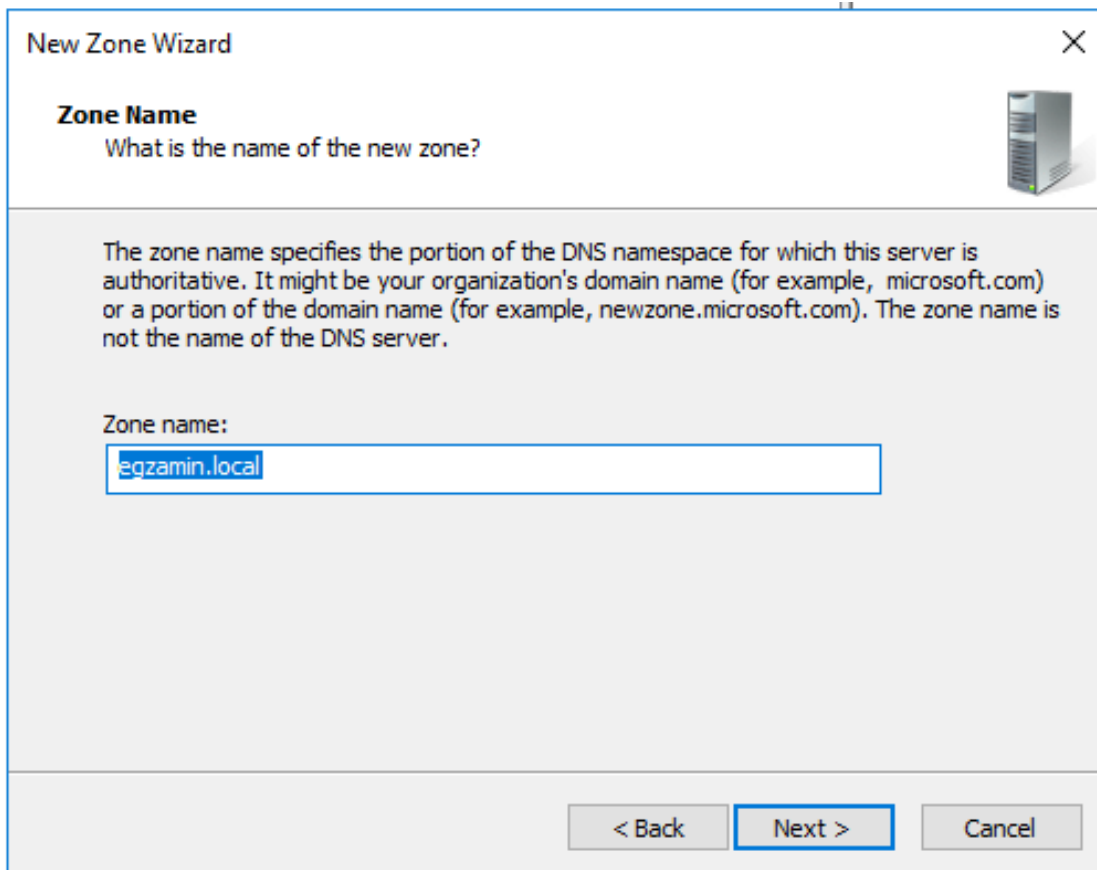




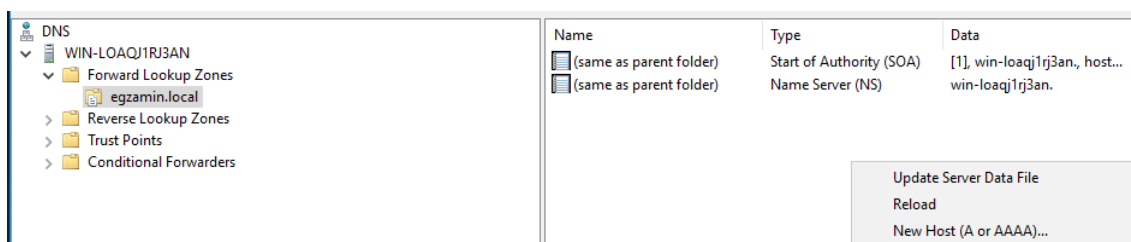
Następne dwa kroki wykonuje się tylko jeśli doinstalowano DNS po instalacji Active Directory. Należy utworzyć nową strefę wyszukiwania w przód (forward)



Następnie należy nadać nazwę strefie.



Następnie należy dodać nowy rekord A.



Powiązanie z domeną bieżącego adresu IP serwera. Pole Name należy pozostawić puste.

New Host

Name (uses parent domain name if blank):

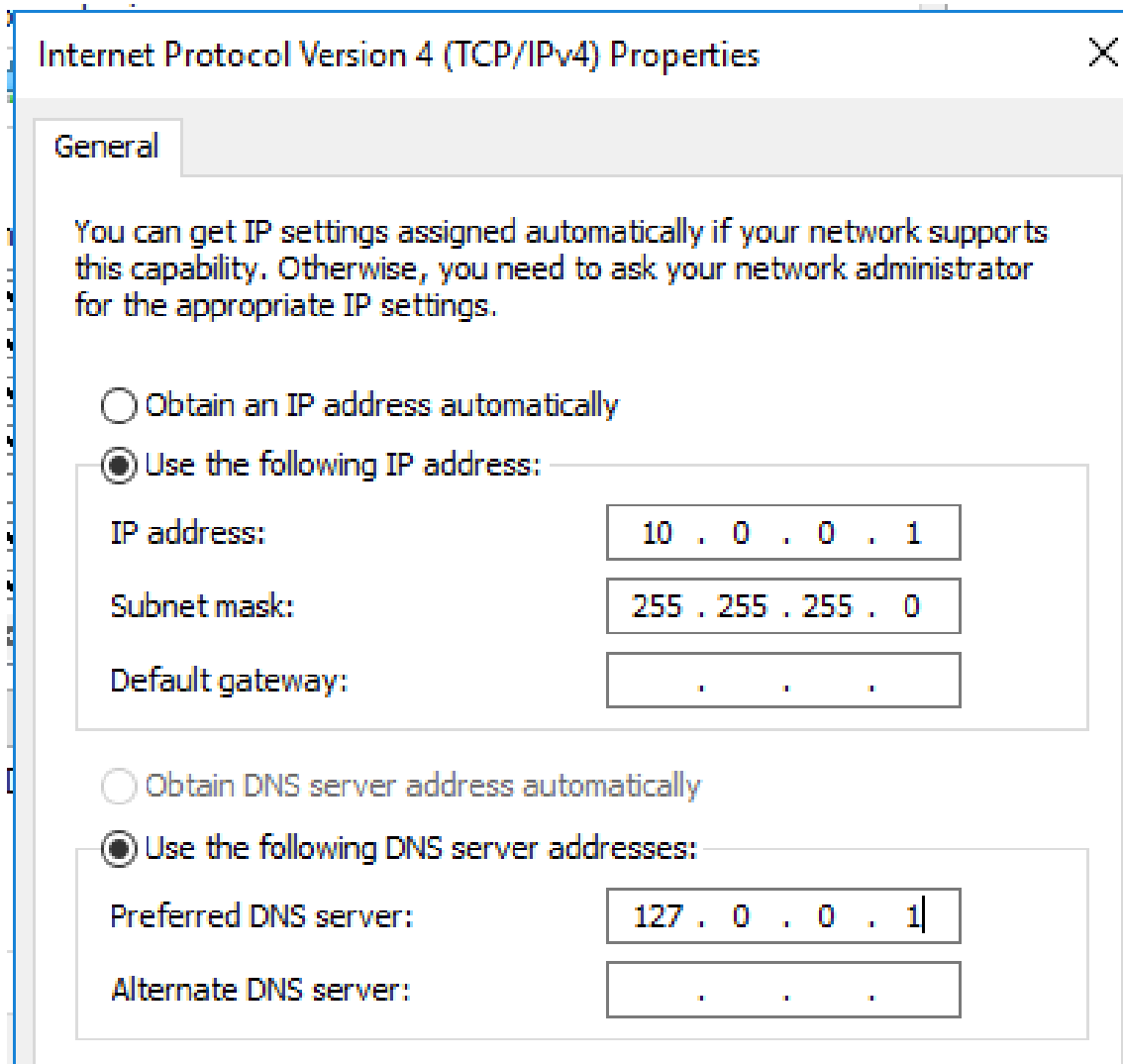
Fully qualified domain name (FQDN):  
egzamin.local.

IP address:  
10.0.0.1

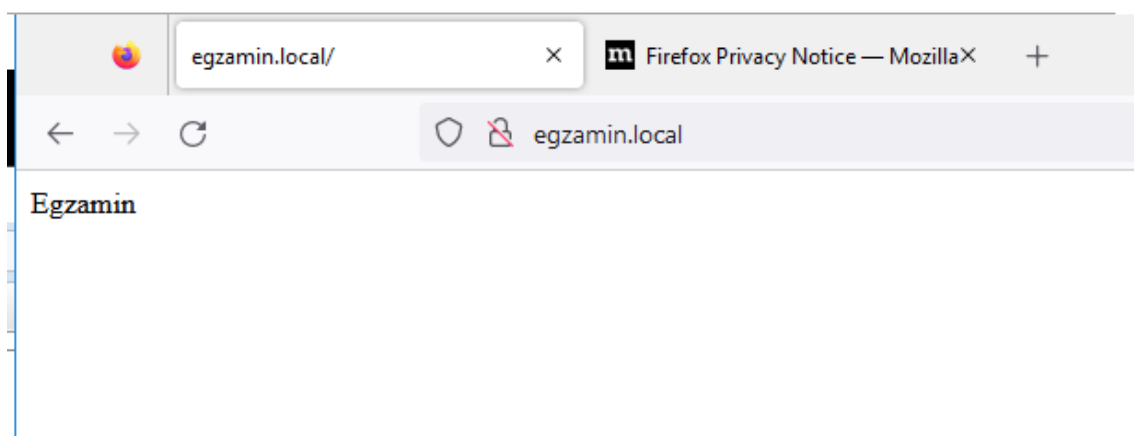
Create associated pointer (PTR) record

Add Host Cancel

Przed testem należy upenić się, że adres DNS ustawiony jest na ten serwer czyli 127.0.0.1 (lub w tym przykładzie można też użyć 10.0.0.1)



Test konfiguracji serwera DNS.



## 6 Routing

Poniżej zostanie zainstalowana usługa Routingu umożliwiająca przekazywanie pakietów z jednej sieci do drugiej. (Z jednej karty sieciowej do drugiej)

Roles	Description
<input type="checkbox"/> Active Directory Federation Services	Remote Access provides seamless connectivity through DirectAccess, VPN, and Web Application Proxy. DirectAccess provides an Always On and Always Managed experience. RAS provides traditional VPN services, including site-to-site (branch-office or cloud-based) connectivity. Web Application Proxy enables the publishing of selected HTTP- and HTTPS-based applications from your corporate network to client devices outside of the corporate network. Routing provides traditional routing capabilities, including NAT and other connectivity options. RAS and Routing can be deployed in single-tenant or multi-tenant mode.
<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 (1 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 checked="" type="checkbox"/> Remote Access	
<input type="checkbox"/> Remote Desktop Services	
<input type="checkbox"/> Volume Activation Services	
▶ <input checked="" type="checkbox"/> Web Server (IIS) (9 of 43 installed)	
<input type="checkbox"/> Windows Deployment Services	
<input type="checkbox"/> Windows Server Essentials Experience	
<input type="checkbox"/> Windows Server Update Services	

Select the role services to install for Remote Access

Role services

- DirectAccess and VPN (RAS)
- Routing
- Web Application Proxy

Add Roles and Features Wizard

Add features that are required for Routing?

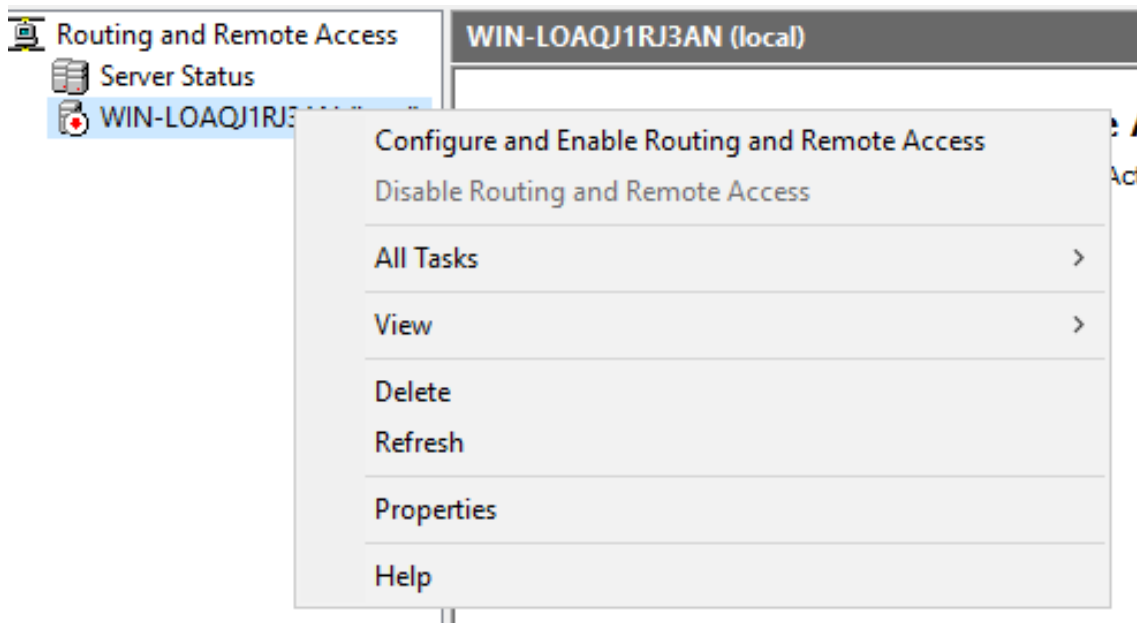
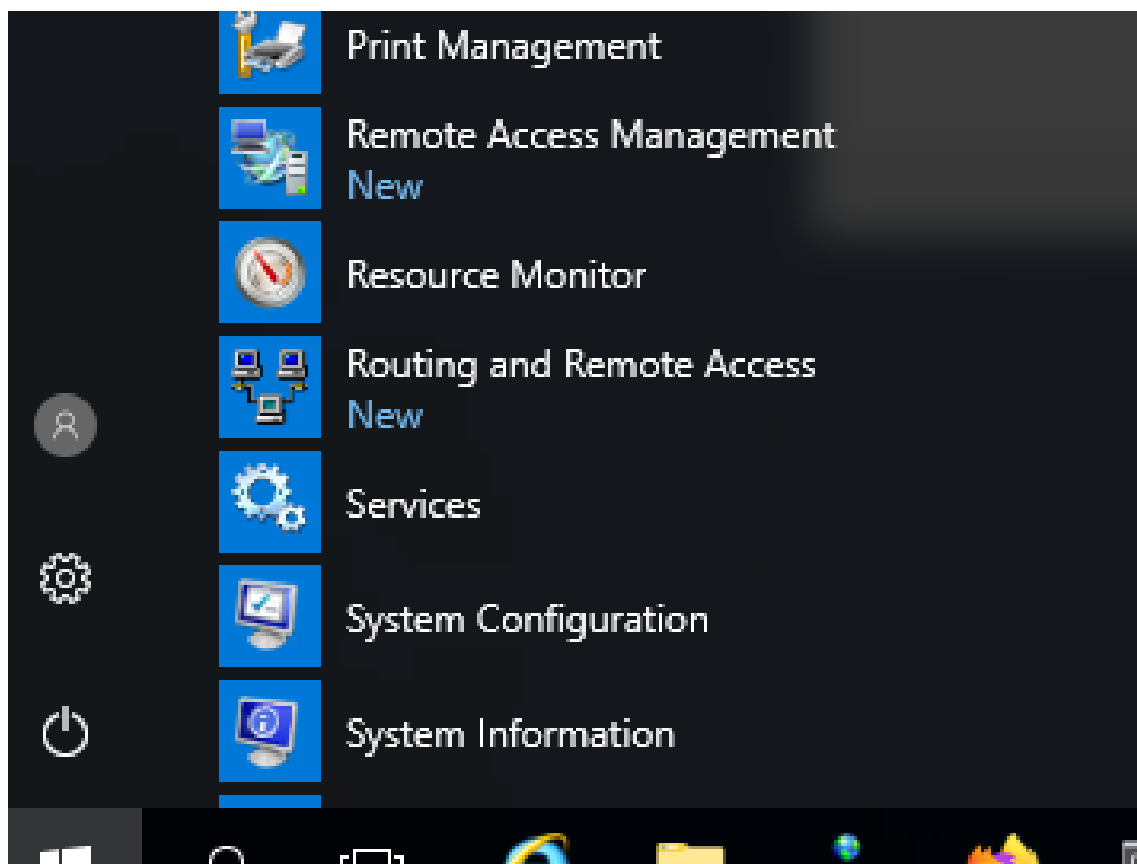
You cannot install Routing unless the following role services are also installed.

- Group Policy Management
- RAS Connection Manager Administration Kit (CMAK)
- ▶ Remote Access
  - DirectAccess and VPN (RAS)
- ▶ Remote Server Administration Tools
  - ▶ Role Administration Tools
    - ▶ Remote Access Management Tools
      - [Tools] Remote Access GUI and Command
      - [Tools] Remote Access module for Wind
- ▶ Web Server (IIS)
  - ▶ Management Tools

Include management tools (if applicable)

Add Features

Otwieramy przystawkę Routing and Remote Access



## Routing and Remote Access Server Setup Wizard

### Configuration

You can enable any of the following combinations of services, or you can customize this server.

- Remote access (dial-up or VPN)  
Allow remote clients to connect to this server through either a dial-up connection or a secure virtual private network (VPN) Internet connection.
- Network address translation (NAT)  
Allow internal clients to connect to the Internet using one public IP address.
- Virtual private network (VPN) access and NAT  
Allow remote clients to connect to this server through the Internet and local clients to connect to the Internet using a single public IP address.
- Secure connection between two private networks  
Connect this network to a remote network, such as a branch office.
- Custom configuration  
Select any combination of the features available in Routing and Remote Access.

< Back

Next >

Cancel



## Routing and Remote Access Server Setup Wizard

### Custom Configuration

When this wizard closes, you can configure the selected services in the Routing and Remote Access console.

Select the services that you want to enable on this server.

- VPN access
- Dial-up access
- Demand-dial connections ( used for branch office routing )
- NAT
- LAN routing

< Back

Next >

Cancel

## Completing the Routing and Remote Access Server Setup Wizard

You have successfully completed the Routing and Remote Access Server Setup wizard.

**Routing and Remote Access**

**Start the service**

The Routing and Remote Access service is ready to use.

in the Routing and Remote Access console.  
To close this wizard, click Finish.

Routing and Remote Access		General						
Interface	Type	IP Address	Incoming bytes	Outgoing bytes	Static Filters	Administrative Status	Operational Status	
Loopback	Loopback	127.0.0.1	0	0	Disabled	Up	Operational	
Internal	Internal	Not available	-	-	Disabled	Unknown	Non-operational	
Ethernet 2	Dedicated	10.0.0.1	0	52 698	Disabled	Up	Operational	
Ethernet	Dedicated	Not available	-	-	Disabled	Unknown	Non-operational	