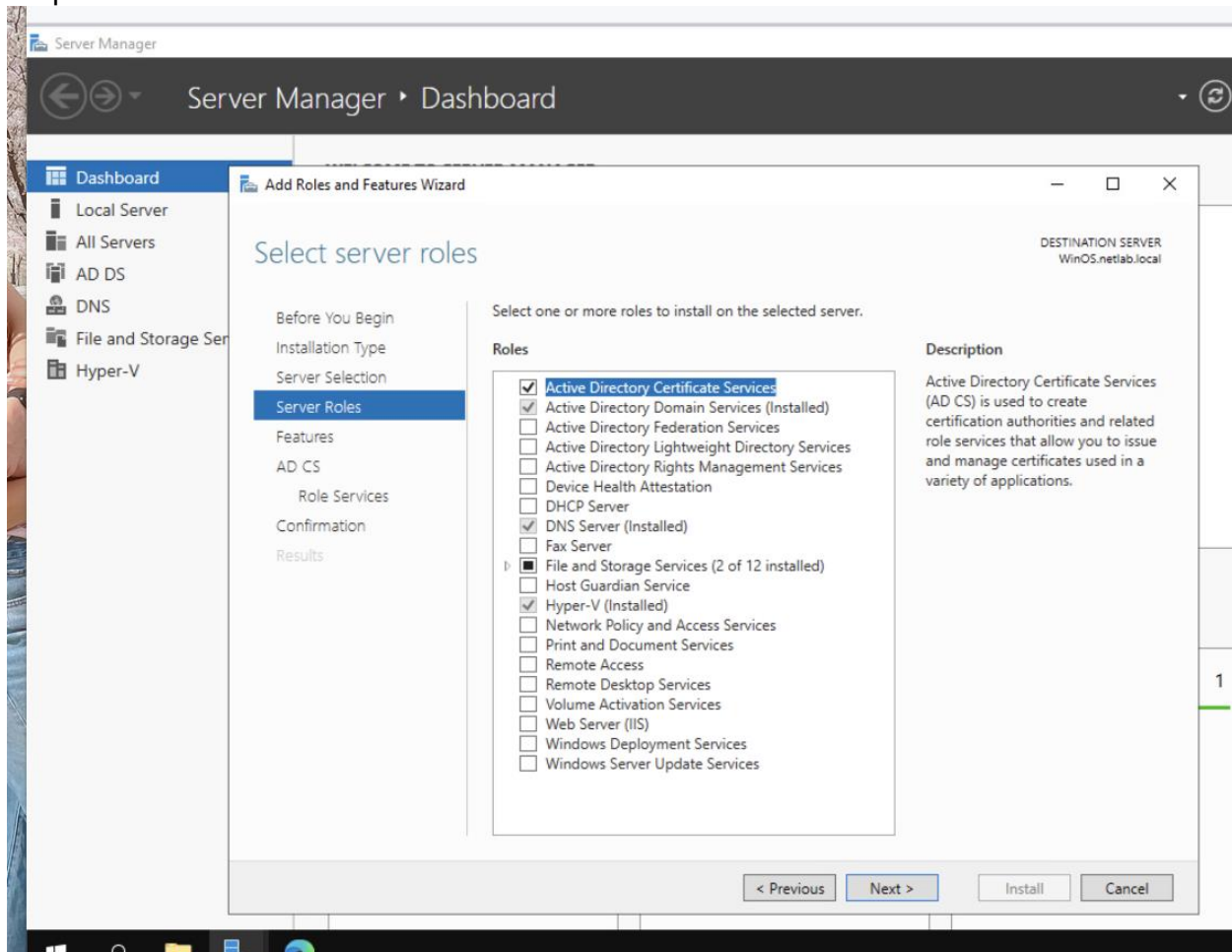


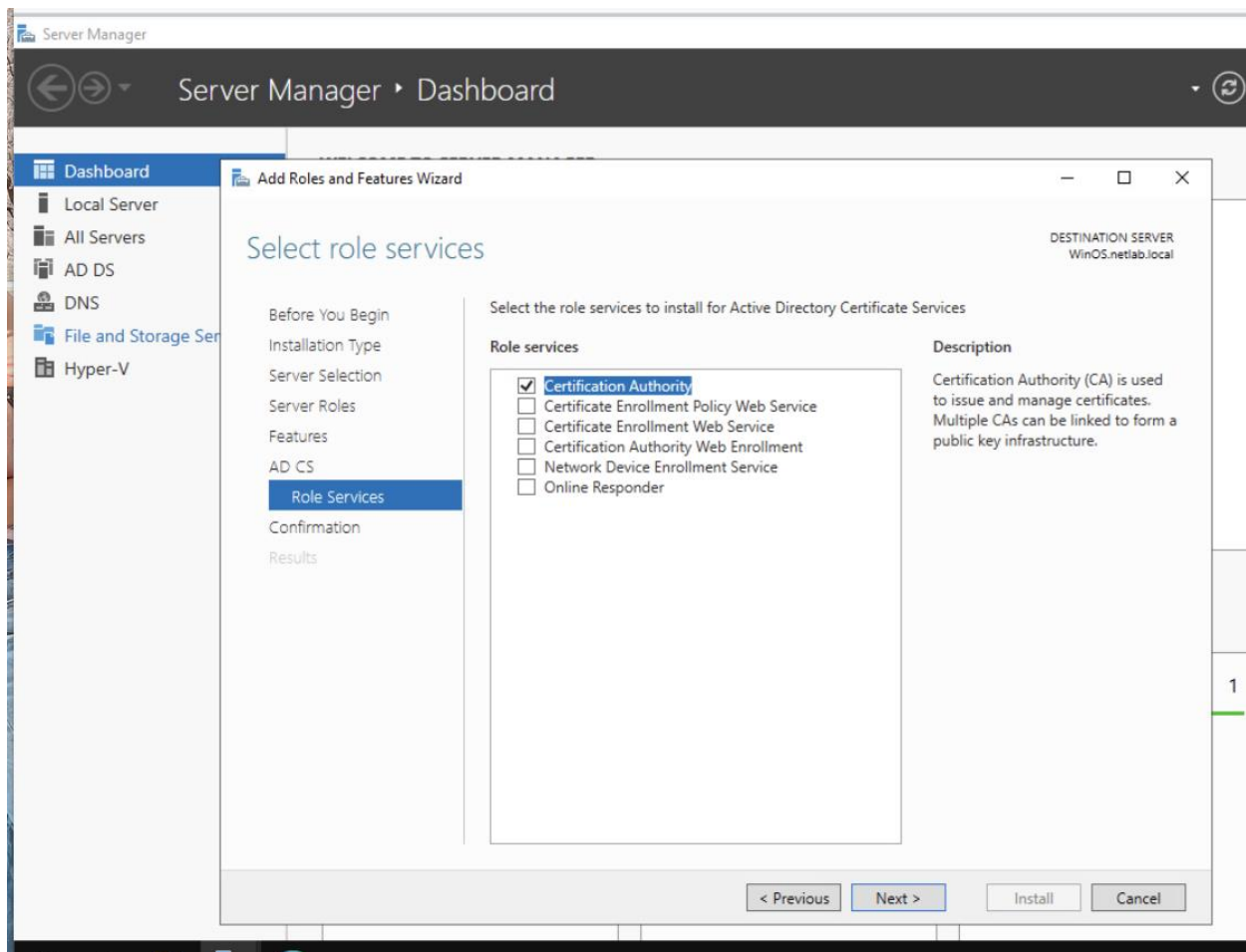
Peter Sanford
IT 2700
NetLab Lab 21
10/14/2023

1:

Step 7:

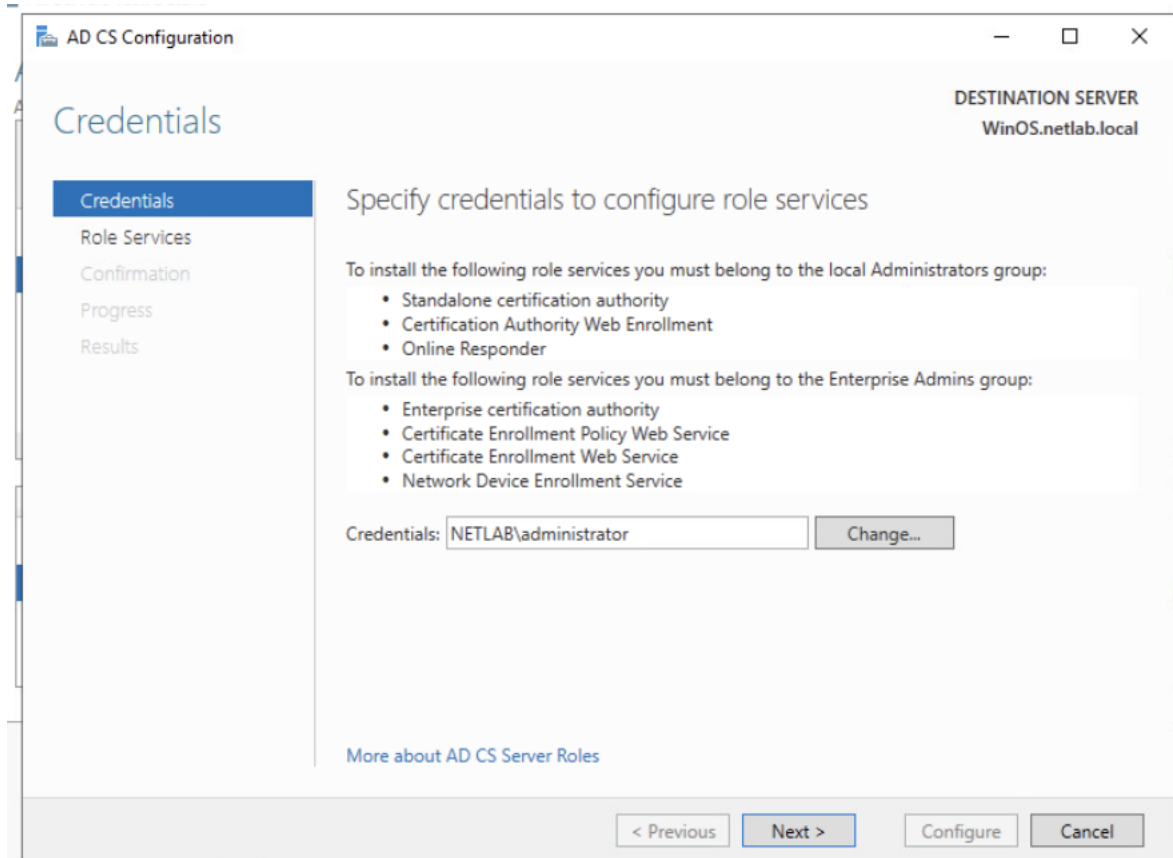


Step 10:



2:

Step 4:



Step 9:

All SERVERS Task Details

AD CS Configuration

DESTINATION SERVER
WinOS.netlab.local

Cryptography for CA

- Credentials
- Role Services
- Setup Type
- CA Type
- Private Key
- Cryptography**
- CA Name
- Validity Period
- Certificate Database
- Confirmation
- Progress
- Results

Specify the cryptographic options

Select a cryptographic provider: RSA#Microsoft Software Key Storage Provider

Key length: 2048

Select the hash algorithm for signing certificates issued by this CA:

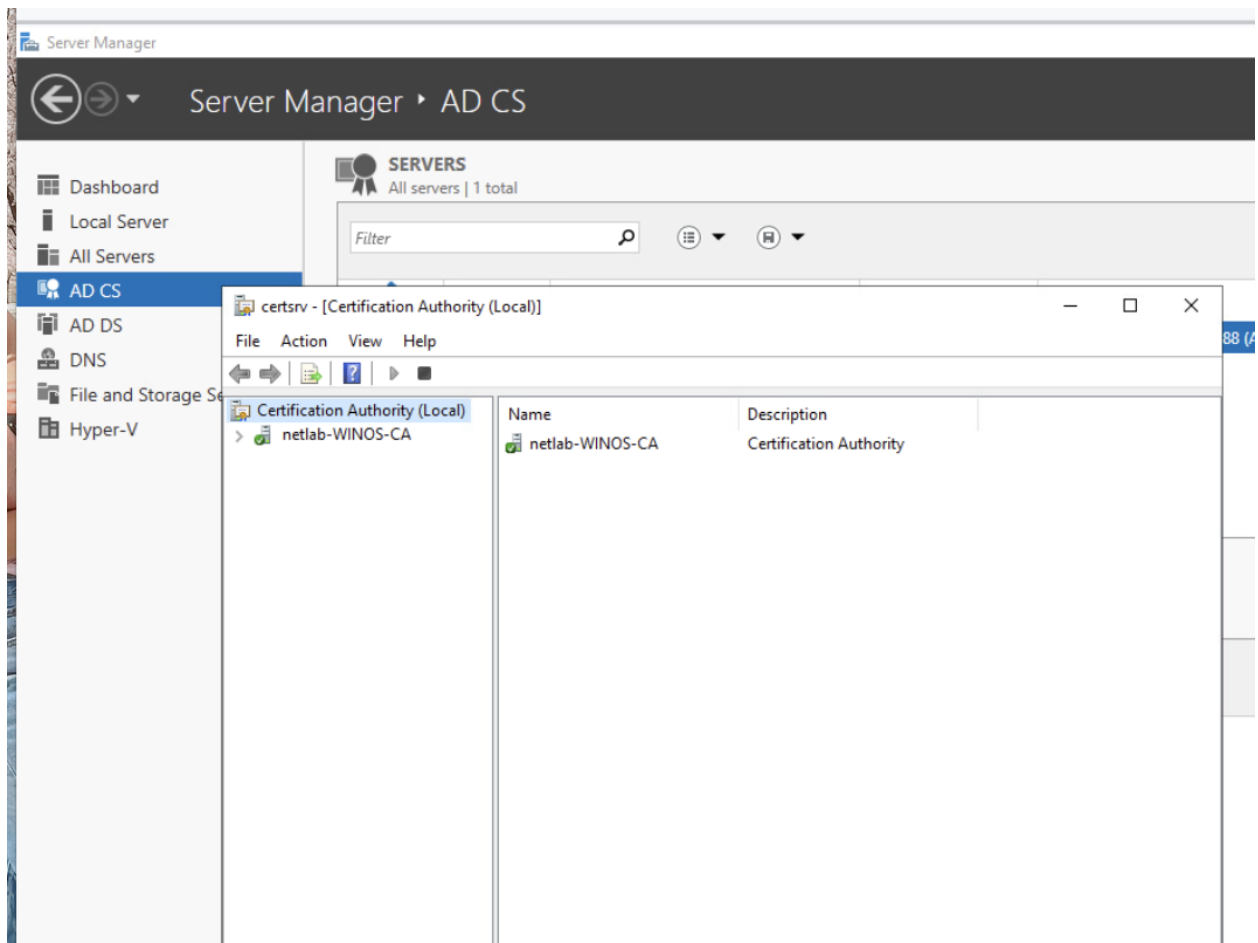
- SHA256
- SHA384
- SHA512
- SHA1
- MDS

☐ Allow administrator interaction when the private key is accessed by the CA.

[More about Cryptography](#)

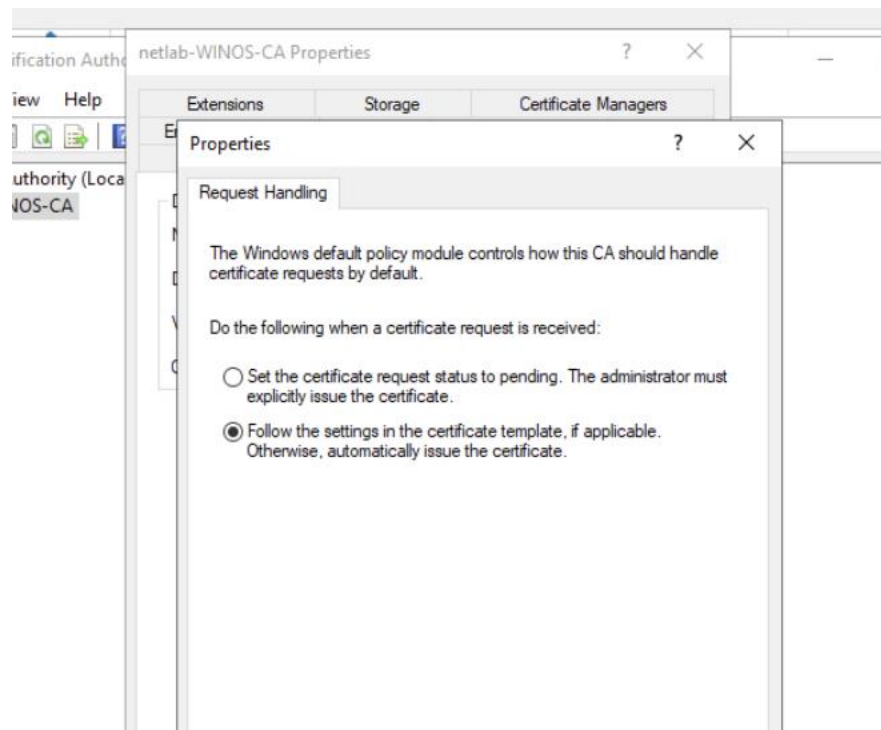
< Previous Next > Configure Cancel

Step 17:



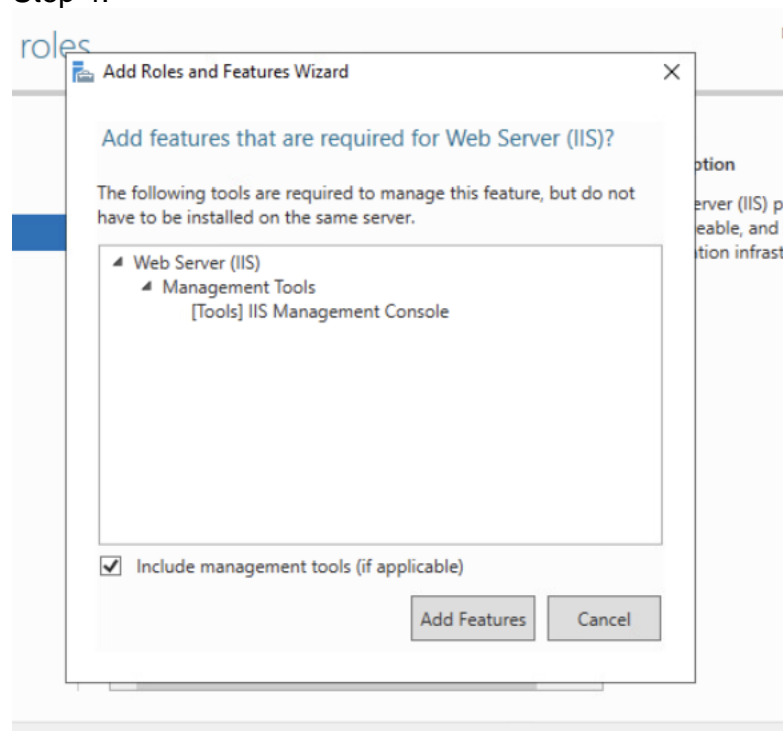
3.1:

Step 3:



3.2:

Step 4:



Step 8:

Select the role services to install for Web Server (IIS)

Role services	Description
<input checked="" type="checkbox"/> Web Server	Web Server provides HTML Web sites and support for ASP.NET server extensions. Use Web Server to host external Web sites or environment for development or create Web-based applications.
<input checked="" type="checkbox"/> Common HTTP Features	
<input checked="" type="checkbox"/> Default Document	
<input checked="" type="checkbox"/> Directory Browsing	
<input checked="" type="checkbox"/> HTTP Errors	
<input checked="" type="checkbox"/> Static Content	
<input type="checkbox"/> HTTP Redirection	
<input type="checkbox"/> WebDAV Publishing	
<input checked="" type="checkbox"/> Health and Diagnostics	
<input checked="" type="checkbox"/> HTTP Logging	
<input type="checkbox"/> Custom Logging	
<input type="checkbox"/> Logging Tools	
<input type="checkbox"/> ODBC Logging	

Step 14:

Create Certificate

Distinguished Name Properties

Specify the required information for the certificate. State/province and City/locality must be specified as official names and they cannot contain abbreviations.

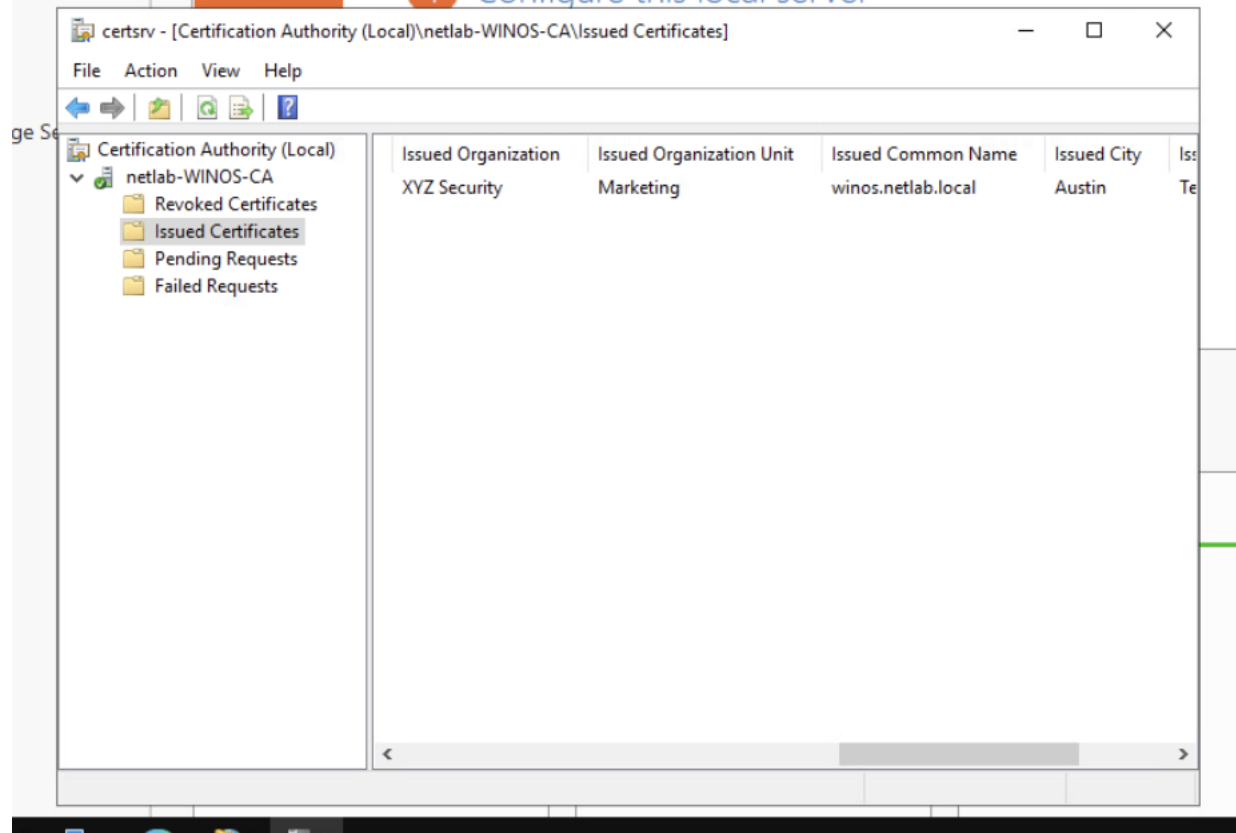
Common name:	winos.netlab.local
Organization:	XYZ Security
Organizational unit:	Marketing
City/locality:	Austin
State/province:	Texas
Country/region:	US

Previous Next Finish Cancel

Step 19:

1

Configure this local server



Commentary:

In this lab we managed and issued a CA and a web domain digital certificate. I learned that it isn't too complicated but could become super complicated once you had a ton of certificates to manage. Luckily there's PKI that can help with that though. Companies can use this information by using it to manage and request their own digital certificates. They probably shouldn't have their own CA though since it wouldn't be mutually trusted by other people on the internet (They wouldn't recognize the CA issuer)