

## INFO603 Practical project documentation template (Engineering journal)

Section number: 6

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When doing practical work it is common practice and extremely useful to document the steps you took. This assists you make your learning more tangible and organise it. The more detail you can provide the better it is so that if ever you want to configure it in the future you have a personal record documented.

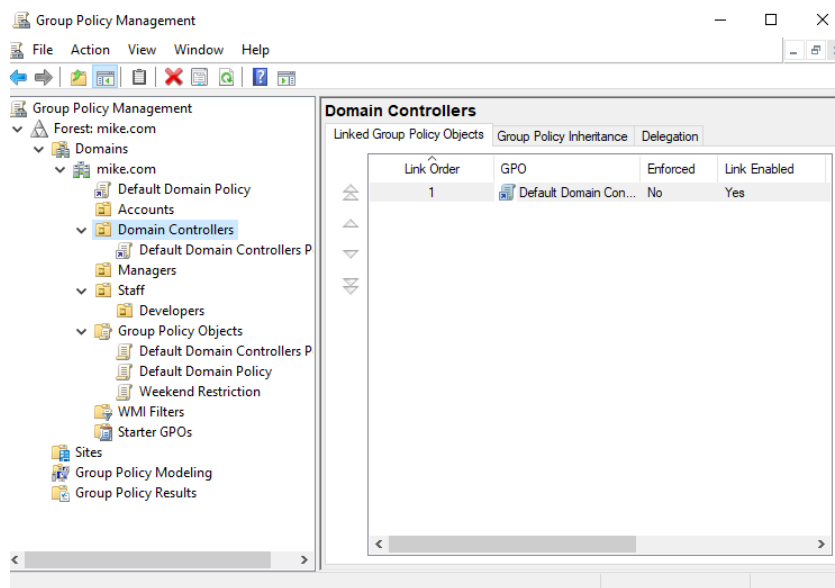
The project book gives the main implementation steps. However this documentation report requires you document what you did at each implementation step as you are doing the practical project. It is not advised to do this at the end otherwise you are likely to forget what you did.

Please write this in your own words as it is a record of your work. Copied material is not accepted.

GPO's

Group Policy is a Windows Active Directory administration solution that allows for centralised control of configuration settings. They allow administrators to set different restrictions and access controls to those specified groups.

Open server manager-> go to tools -> select group policy manager.



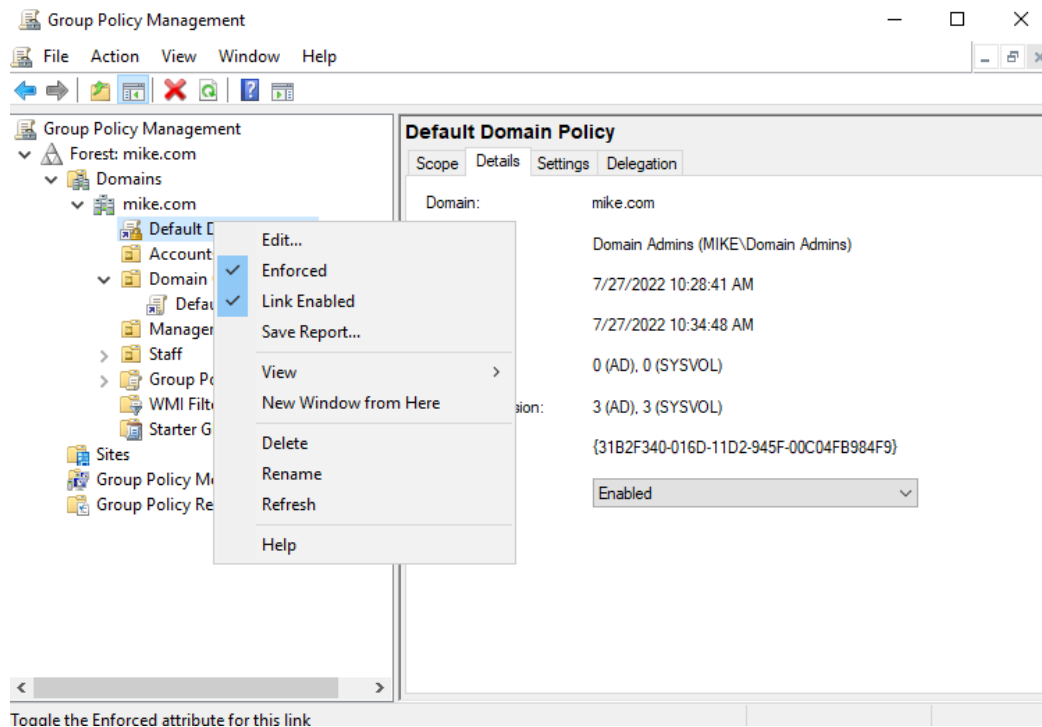
Default policy's

- Default domain Policy
- Default domain controller policy

Enforcing group policy

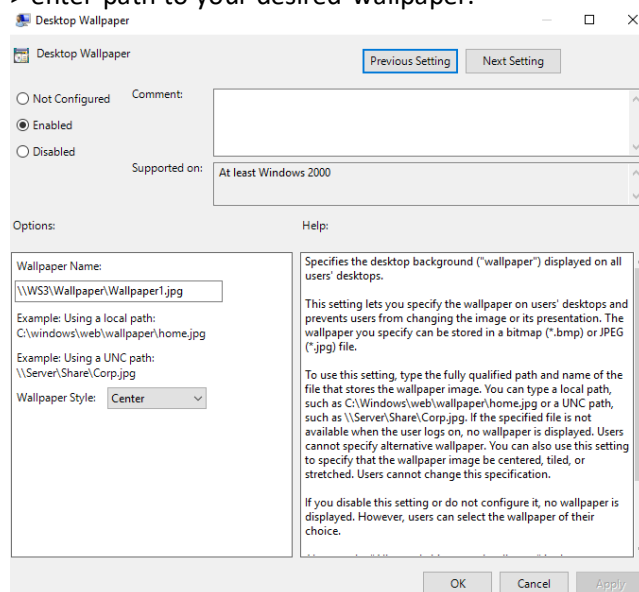
Enforcing a GPO means that all Active Directory items included within a container, are affected by the GPO regardless of how deeply they are nested.

Open server manager-> go to tools -> select group policy manager -> select Default Domain Policy group -> right click it -> click enforce.



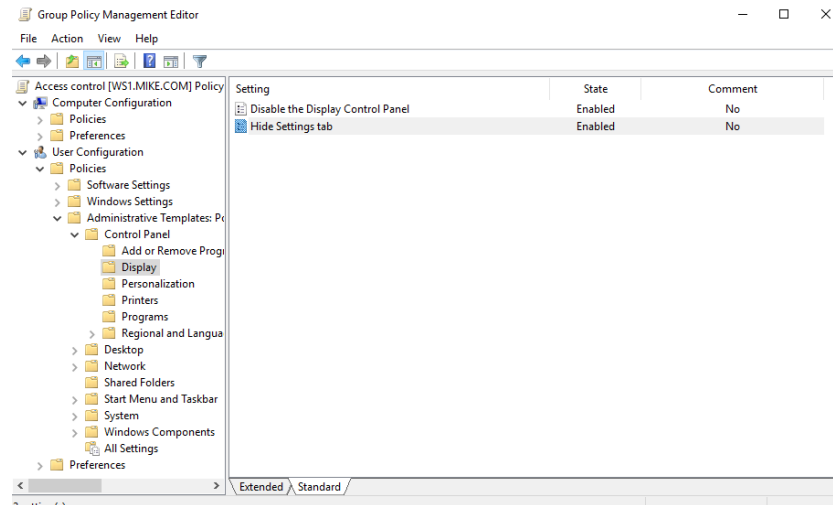
Group specific wallpapers

Open GPO manager -> under your domain -> right click -> select create GPO -> enter a name -> click OK -> right click your new GPO -> click edit -> click user configuration -> click administrative templates -> click desktop -> select Desktop wallpaper -> enable it -> enter path to your desired wallpaper.

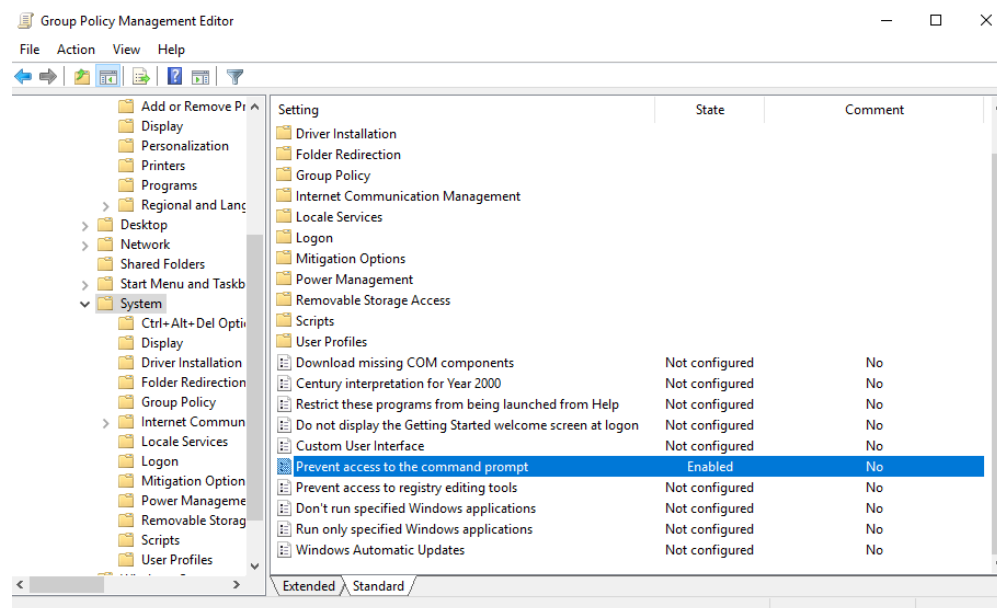


Disabling control panel & CMD

Open GPO manager -> select accounts tab -> right click -> select create GPO -> enter a name -> click OK -> right click your new GPO -> click edit -> click user configuration -> click administrative templates -> click control panel -> click display -> enable both settings under the display tab.



Open GPO manager -> select accounts tab -> right click -> select create GPO -> enter a name -> click OK -> right click your new GPO -> click edit -> click user configuration -> click administrative templates -> click system -> scroll until you find "Prevent access to cmd" -> enable it.



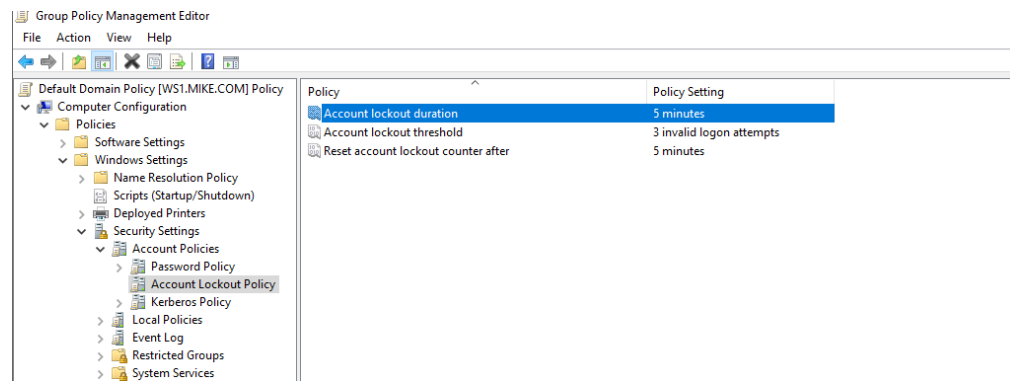
## Account lockout & password

Changing these policy's allows the admin to set the number of invalid attempts, lockout duration, account lockout counter, password length and password expiry.

Open GPO management -> select Default domain policy -> right click -> select edit -> expand policies -> expand windows settings -> expand security settings -> expand account policies -> select account lockout policy.

Double click Account lockout threshold -> enter value -> click apply.

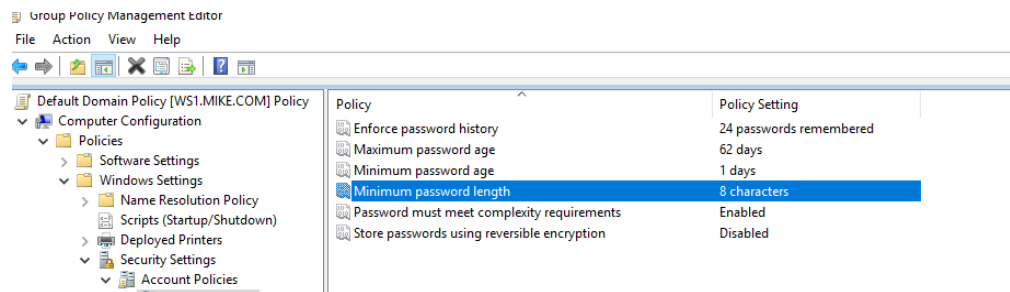
Double click Account lockout counter -> enter value -> click apply.

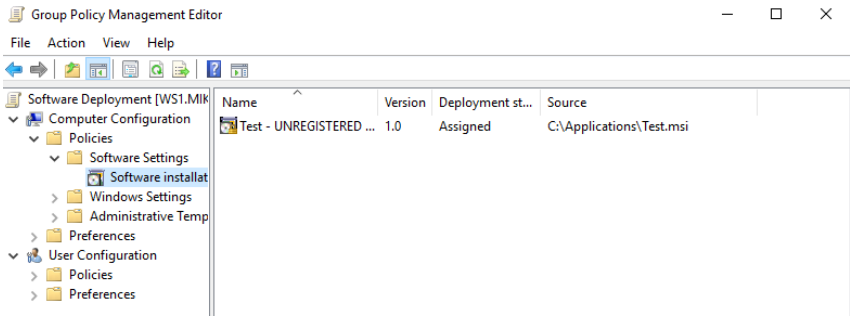
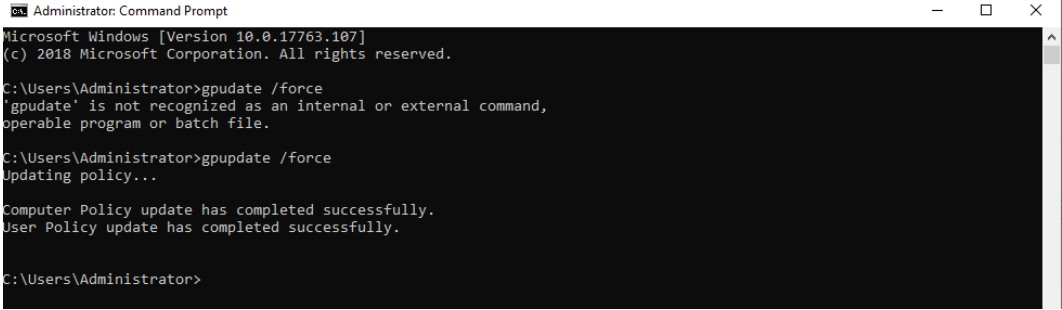
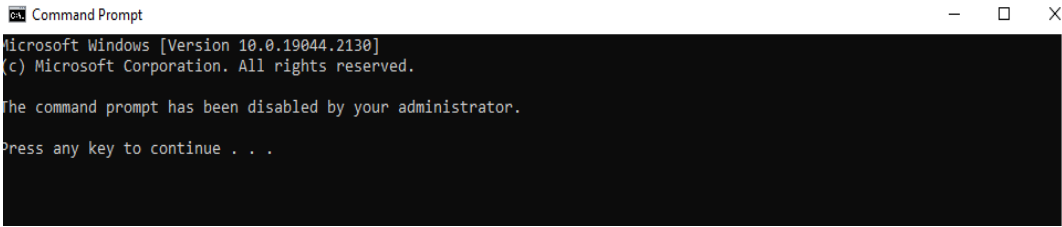
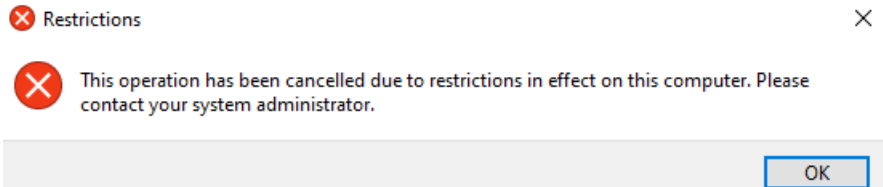


Open GPO management -> select Default domain policy -> right click -> select edit -> expand policies -> expand windows settings -> expand security settings -> expand account policies -> select Password Policy.

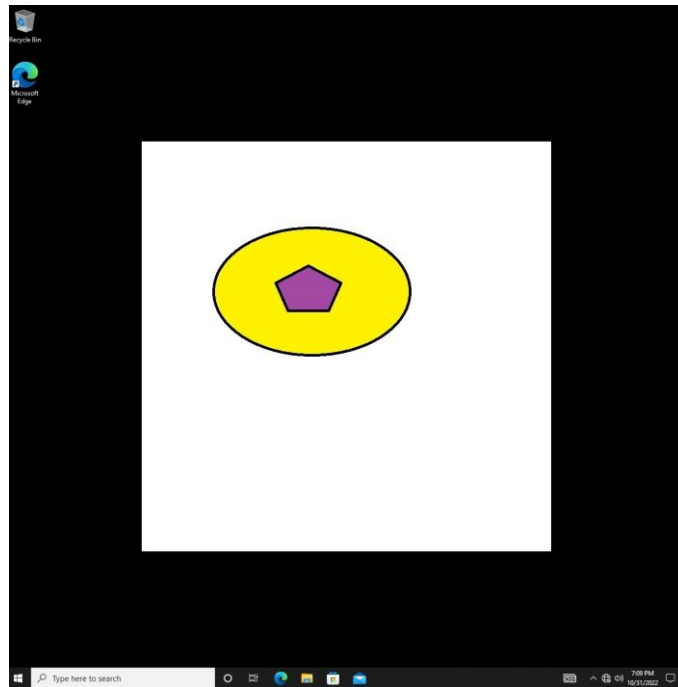
Double click Maximum password age -> enter value -> click apply.

Double click Minimum password length-> enter value -> click apply.



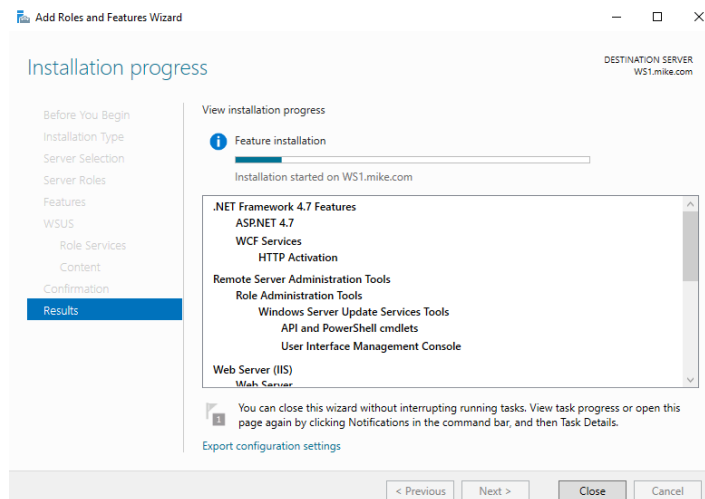
Software settings	<p>Open GPO manager -&gt; expand domain -&gt; expand staff -&gt; select developers -&gt; right click -&gt; select create new GPO -&gt; Enter name -&gt; click OK -&gt; select your new GPO -&gt; right click -&gt; select edit -&gt; Computer Configuration -&gt; Policies -&gt; Software Settings -&gt; right-click Software installation -&gt; Select New -&gt; Package -&gt; navigate to your file -&gt; click open -&gt; select advanced -&gt; click OK -&gt; click OK.</p>  <p>The difference between assigned and published applications is that assigned applications will be installed after a reboot or policy update, whereas published applications will be available for users to install or uninstall.</p>
Applying GPO CMD	<p>Open cmd -&gt; enter the command “gpupdate /force”.</p> 
Testing GPO	<p>CMD disabled for accounts user group</p>  <p>Disabled control panel for accounts users group.</p> 

## Custom background

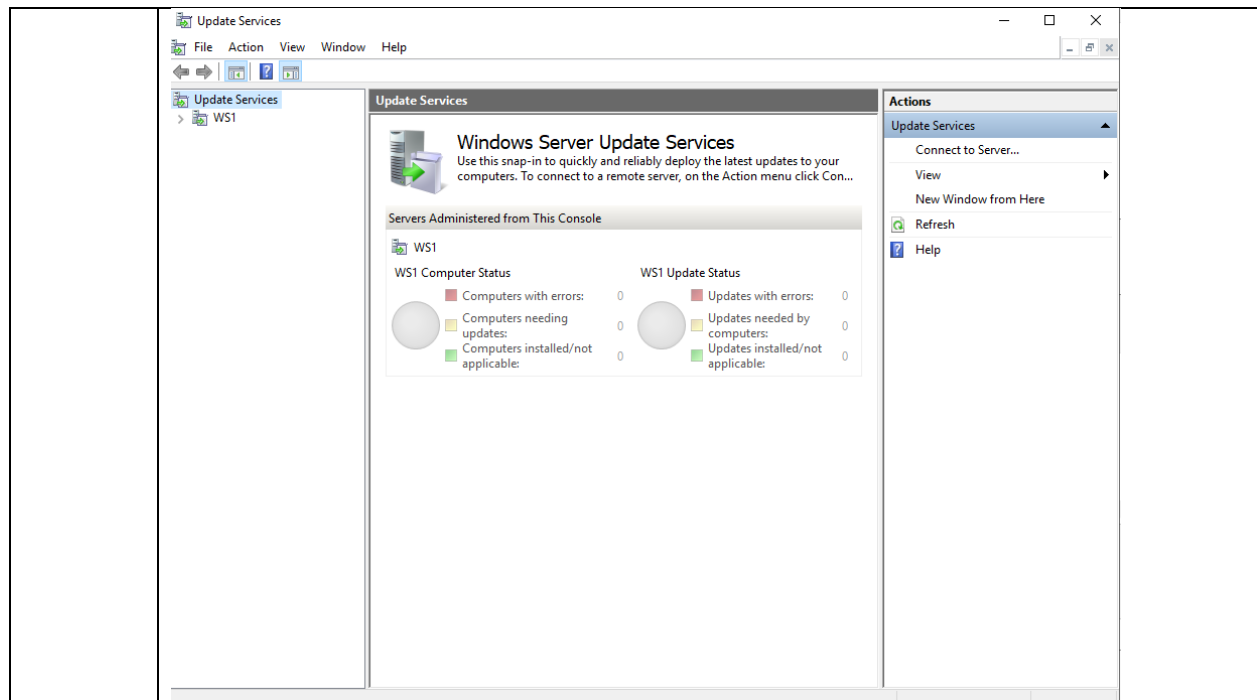


## WSUS

Open server manager -> click add roles & features -> select role based -> click next -> select WS1 as your server -> click next -> select Windows Server Update Services -> click next -> click next -> click next -> enter the path -> click next -> click install.

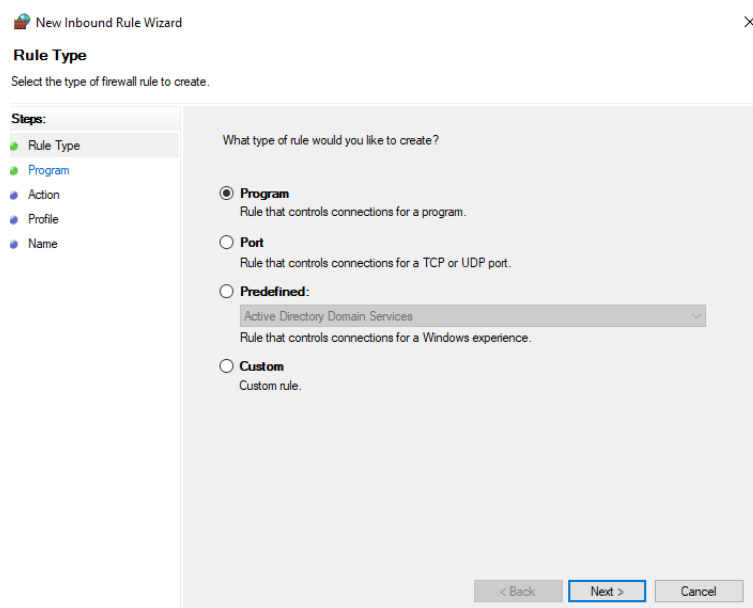


Open tools -> click WSUS -> click next -> select sync from MS updates -> click next -> click start connecting -> click next -> click next -> click next -> select begin initial sync -> click finish.

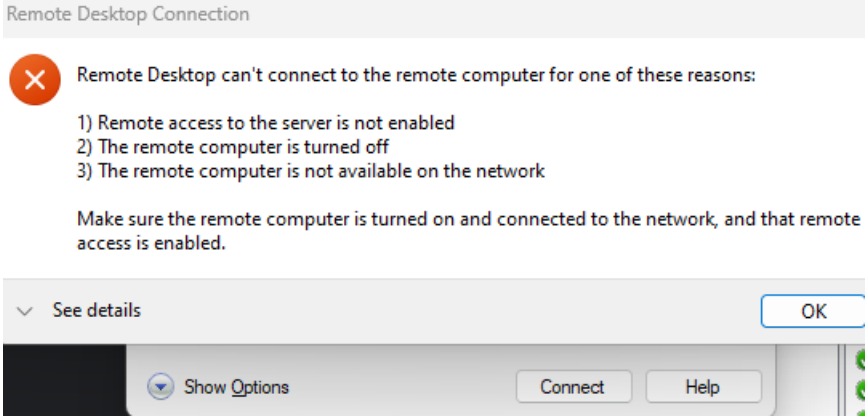


Windows  
Defender  
Firewall

Press the windows key + R key -> enter firewall.cpl -> click advanced settings -> select inbound rules -> click new rule.



Click port -> select TCP -> enter your ports -> click next -> select allow connect -> click next -> click next -> enter rule name -> click finish.

	 <p>I decided to test my rule inbound port rule by blocking port 3389 as this disabled remote access to the server, this could be useful when denying remote access to people outside of your domain.</p>
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List At the three most useful Internet resources that you used (provided by the tutor)

<a href="https://www.youtube.com/watch?v=Afzd9AgU57U&amp;ab_channel=ItSystem">https://www.youtube.com/watch?v=Afzd9AgU57U&amp;ab_channel=ItSystem</a>
<a href="https://www.youtube.com/watch?v=2olvZOgn0LQ&amp;ab_channel=NLBSolutions">https://www.youtube.com/watch?v=2olvZOgn0LQ&amp;ab_channel=NLBSolutions</a>
<a href="https://www.youtube.com/watch?v=Yv0qjxdX5yw&amp;t=441s&amp;ab_channel=MSFTWebCast">https://www.youtube.com/watch?v=Yv0qjxdX5yw&amp;t=441s&amp;ab_channel=MSFTWebCast</a>

List all (at least three) Internet resources that you found and used that were not provided by the tutor)

<a href="https://msftwebcast.com/2019/12/install-and-configure-wsus-on-windows-server-2019-part-2.html#:~:text=In%20my%20test%20environment%2C%20the,a%20high%2Dspeed%20internet%20connection.">https://msftwebcast.com/2019/12/install-and-configure-wsus-on-windows-server-2019-part-2.html#:~:text=In%20my%20test%20environment%2C%20the,a%20high%2Dspeed%20internet%20connection.</a>
<a href="https://www.softwaretestinghelp.com/gpresult-command/">https://www.softwaretestinghelp.com/gpresult-command/</a>
<a href="https://kb.vmware.com/s/article/2019836#:~:text=In%20Workstation%2C%20go%20to%20VM,a%20note%20of%20your%20setting.">https://kb.vmware.com/s/article/2019836#:~:text=In%20Workstation%2C%20go%20to%20VM,a%20note%20of%20your%20setting.</a>

Reflect on at least two significant problems you came across during the implementation of this section and the solution you found. Use at least five sentence to describe each problem and five sentences to describe each solution. Demonstrate your critical thinking and problem-solving abilities.

Problem	Solution
I didn't run into any problems whilst going through this section everything worked for me they way it should, the only real issue I had was how long it took for the WSUS to install.	I googled how long it would take for WSUS to install and it said around 20 – 30 mins