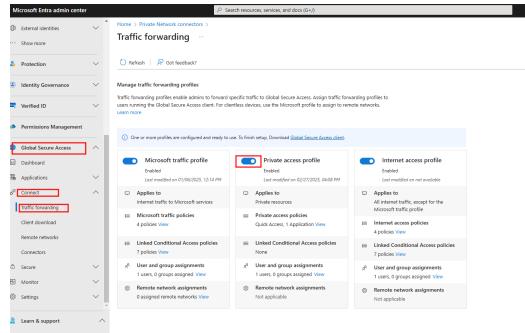
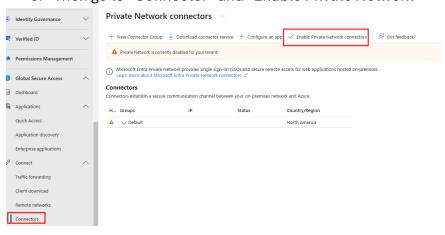
#### Microsoft Entra Private access

### 1. Preparing Azure tenant

- a. Login to Microsoft Entra Admin center, go to "Global Security Access"
- b. "Connect" > "Traffic forwarding", turn On private access. Also add user group to User and group assignments.

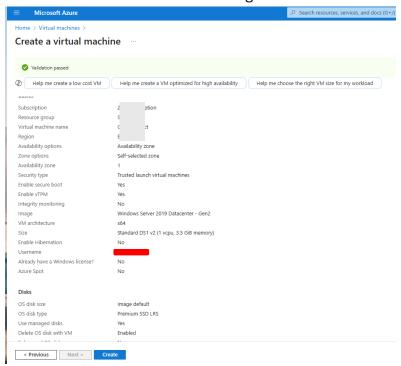


c. Then go to "Connector" and "Enable Private Network"



## 2. Installing connector

Now Take a Windows server (2012 R2 or later) or Create a VM on azure.
 Make sure the VM can reach the targeted resources.



- 3. Add the sever to domain (Optional)
- 4. Now run the following Power shell script for recommended registry update.

# Configuration script for Entra Private Access Connector # See https://learn.microsoft.com/en-us/entra/global-secure-access/how-to-configure-connectors # This code is provided 'as is', without warranty of any kind #Disable HTTP 2.0 Set-ItemProperty

'HKLM:\SDFTWARE\Microsoft\Windows\CurrentVersion\Internet Settings\WinHttp\'-Name EnableDefaultHTTP2 -Value 0 # Enable TLS 1.2 \$TLSPath =

'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\' \$ClientPath =

'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Client' \$ServerPath =

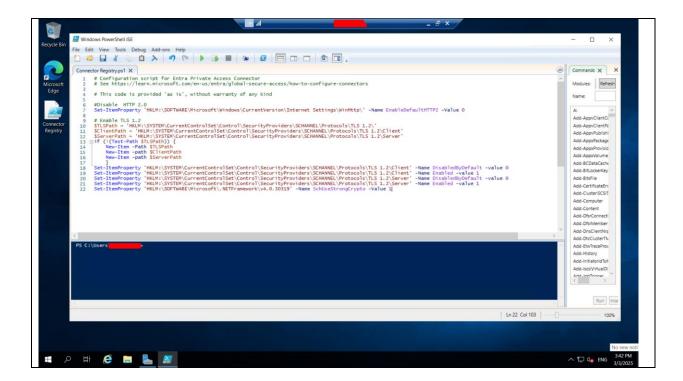
'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Server' if (!(Test-Path \$TLSPath)) { New-Item -Path \$TLSPath New-Item -path \$ServerPath } Set-ItemProperty

'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Client' -Name DisabledByDefault -value 0 Set-ItemProperty

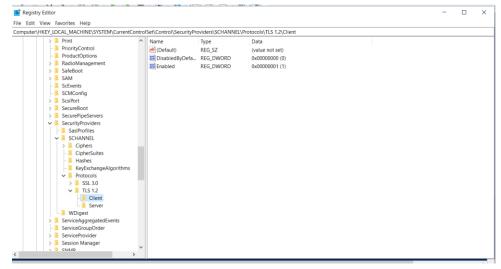
'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Client' -Name Enabled -value 1 Set-ItemProperty

'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Server' -Name DisabledByDefault -value 0 Set-ItemProperty

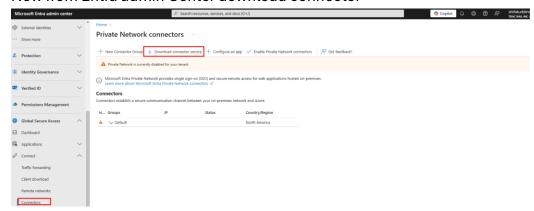
'HKLM:\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.2\Server' -Name Enabled -value 1 Set-ItemProperty



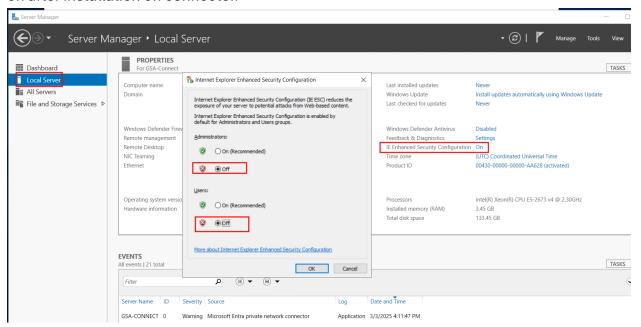
5. Now check the Registry if the changes applied correctly. Then reboot the server.



6. Now from Entra admin Center download connector

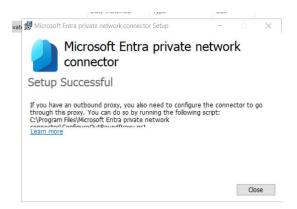


7. Now log in to the Server(Azure VM / On prem Server), Open server manager. Click on "Local server". turn off IE Enhanced Security Configuration. Turn back on after installation on connector.

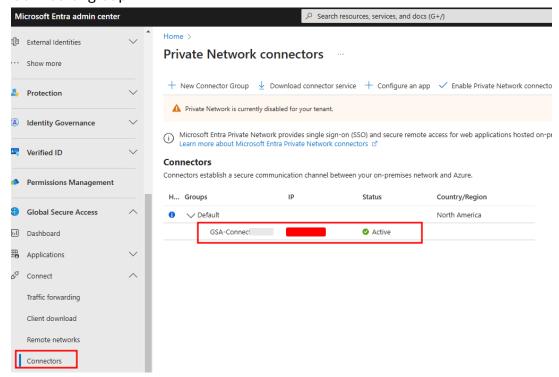


8. Install the connector. During installation the agent will ask for Admin signin





9. On the Entra Connector section we can see the connector is active under default Connector group



10. Now create new connector group and add the Connector also select the region.

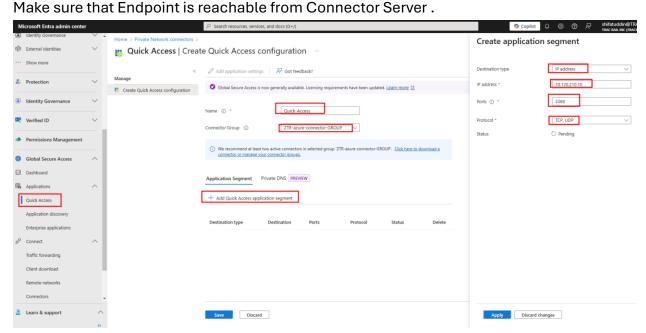


Now each resources needs a corresponding GSA Enterprise Application for permission and protocols. On a smaller scale, built-in Quick Access Application could be used. On the contrary, Individual "Enterprise Application" for each target Resources/ Endpoint is recommended.

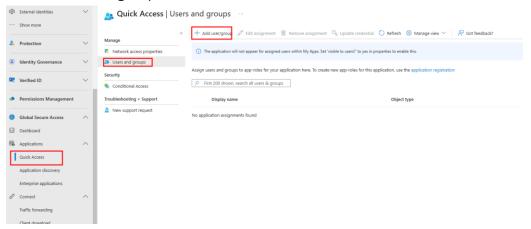
#### 3. Quick Access

Now From the Entra admin center click on **Global Secure Access** > Applications > **Quick Access**.

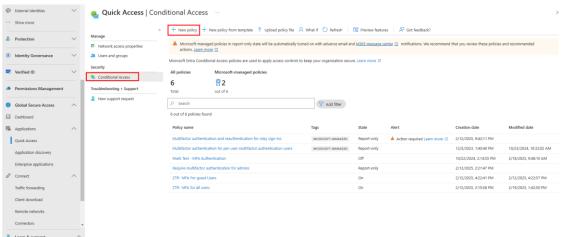
Give it a name, Choose Connection group. Also add Target Endpoint and protocol (tcp/udp & port) to Quick Access Application Segment.



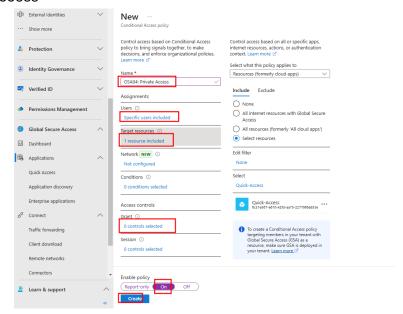
1. Now add users and group



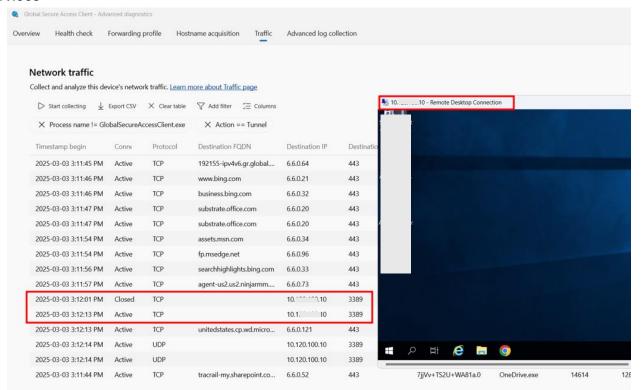
2. Go to Conditional Access and add policy



3. Set user then set Target Resource as Quick-Access, add User group and grant access

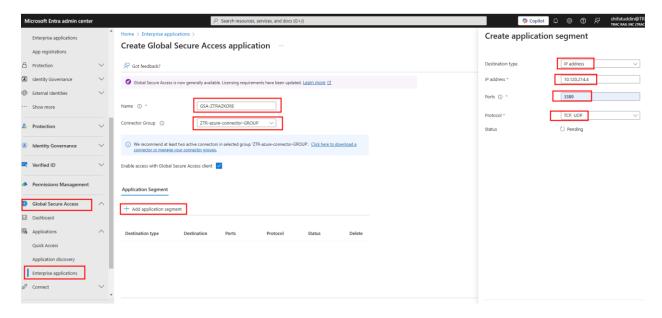


4. Finally you can download GSA client, install and login with a user (Make sure the user has Microsoft Entra Suite License). The user should avail to access the remote services

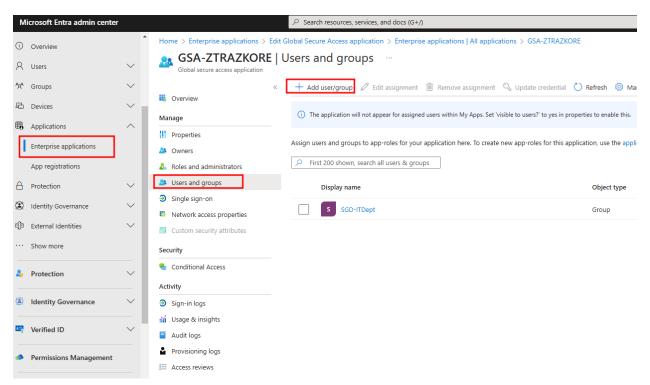


### 4. Enterprise Application:

Create Enterprise Application from Entra Admin center, select Connector Group based of the location of Targeted resources. Then click on "Add application segment" and add ip/fdqn, Port and protocols. Make sure the targeted resource is reachable from the Servers on selected Connector Group.

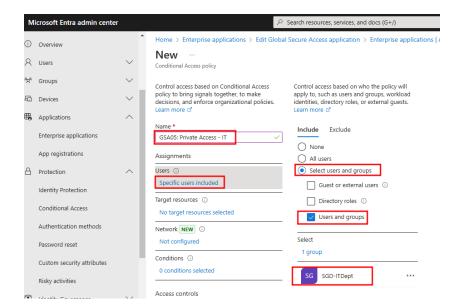


Now from the Enterprise application add user group.

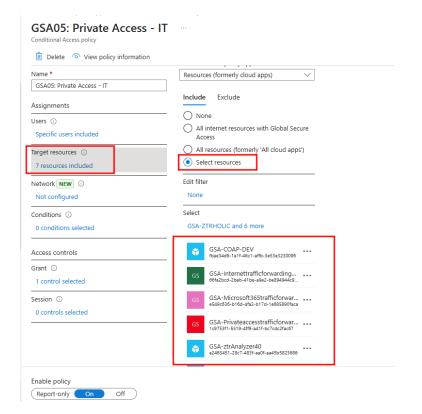


On the Entra Admin Center, go to Protection > Conditional Access > policy, and add new policy.

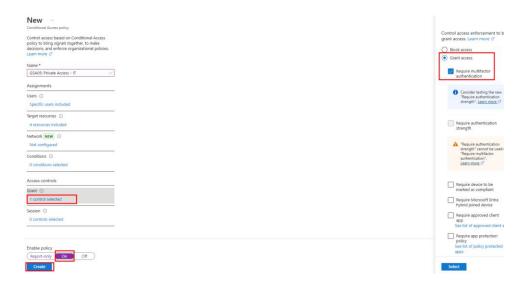
Add targeted group



# Add Target resource:



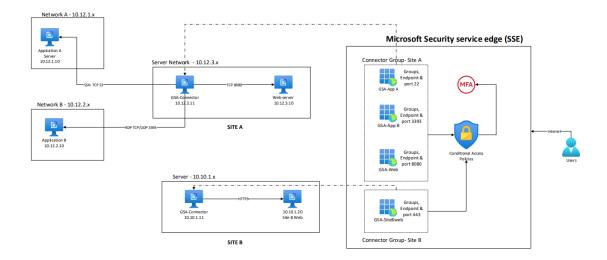
Grant Required access, enable policy and create the policy



## **Implementation case:**

Here we have two sites and four servers running different services. We will use Microsoft Entra Private access to allow these services.

Server	IP	Protocol	Site
Application A	10.12.1.10	TCP 22	SITE A
Application B	10.12.2.10	TCP/UDP 3389	SITE A
Web server	10.12.3.10	TCP 8080	SITE A
Site B web	10.10.1.20	TCP 443	SITE B



We have installed two connectors, one for each site. Then created two connector group named "SiteA-connector-group" and "SiteB-connector-group"

Now, we have created four "Enterprise Application" for all the four servers as follows;

Enterprise	Connector	App Segment	Protocol	Group
Application	Group			
Application A	SiteA-	10.12.1.10	TCP 22	ITDept
	connector			
Application B	SiteA-	10.12.2.10	TCP/UDP 3389	ITDept
	connector			
Web server	SiteA-	10.12.3.10	TCP 8080	ITDept
	connector			
Site B web	SiteB-	10.10.1.20	TCP 443	ITDept
	connector			

Finally, Created a conditional access "GSA01: Private Access - IT" with User group "ITDept" and all the GSA Application as Target resource.

#### Now users can connect all the

