

Mi-Token Installation Step By Step

BY GIL GARCIA

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4.3.9.4 RELEASE

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V.1.0





Recycle Bin



Google
Chrome



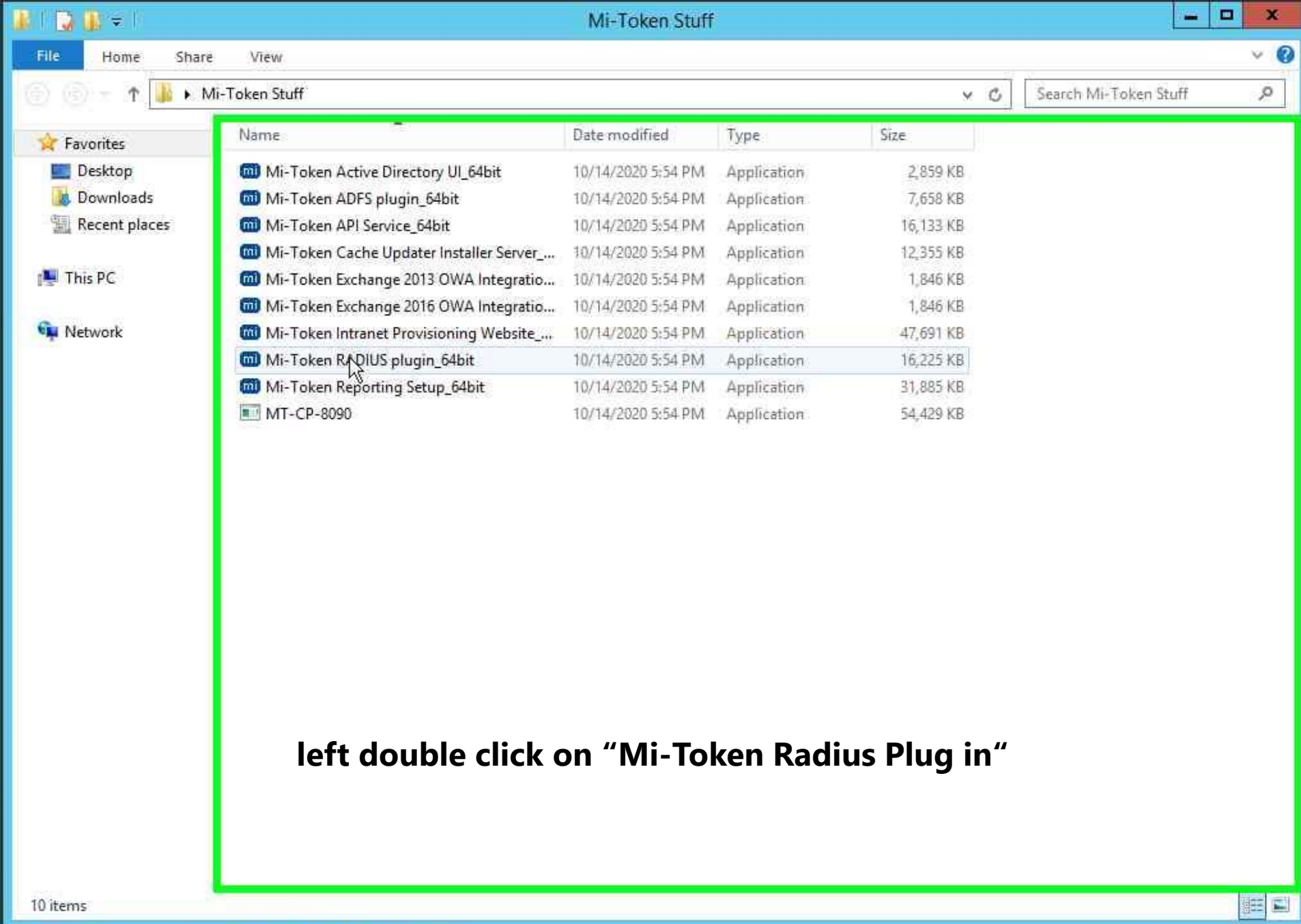
Mi-Token
Stuff

Left double click on "Mi-Token **Stuff** (list item)" in
"Program Manager"

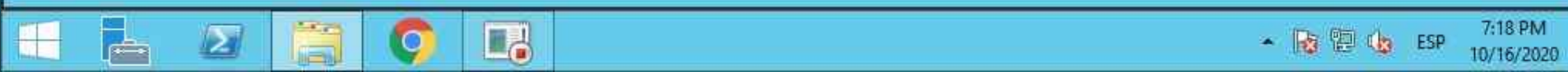
 Windows Server 2012 R2

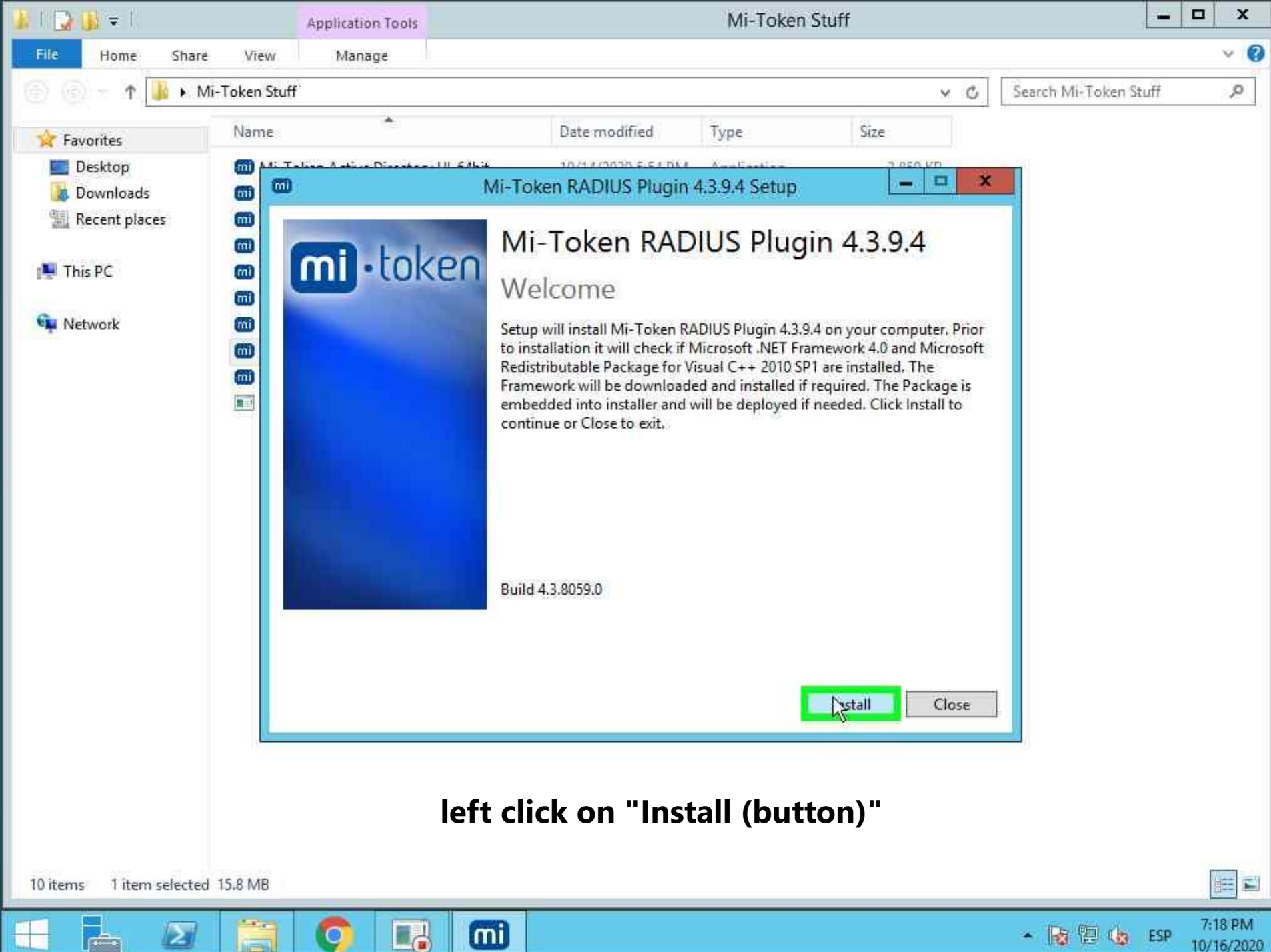


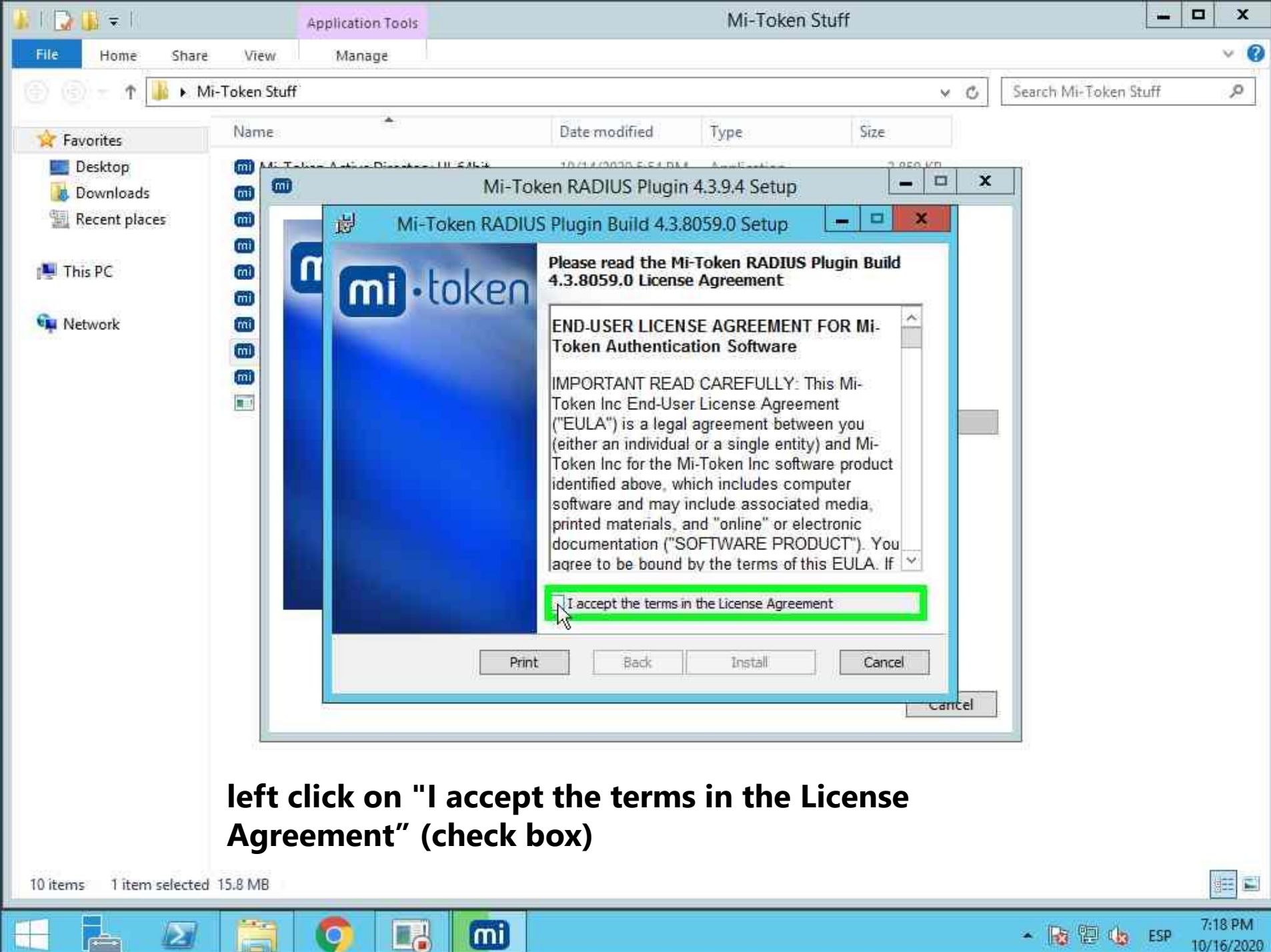
7:18 PM
10/16/2020



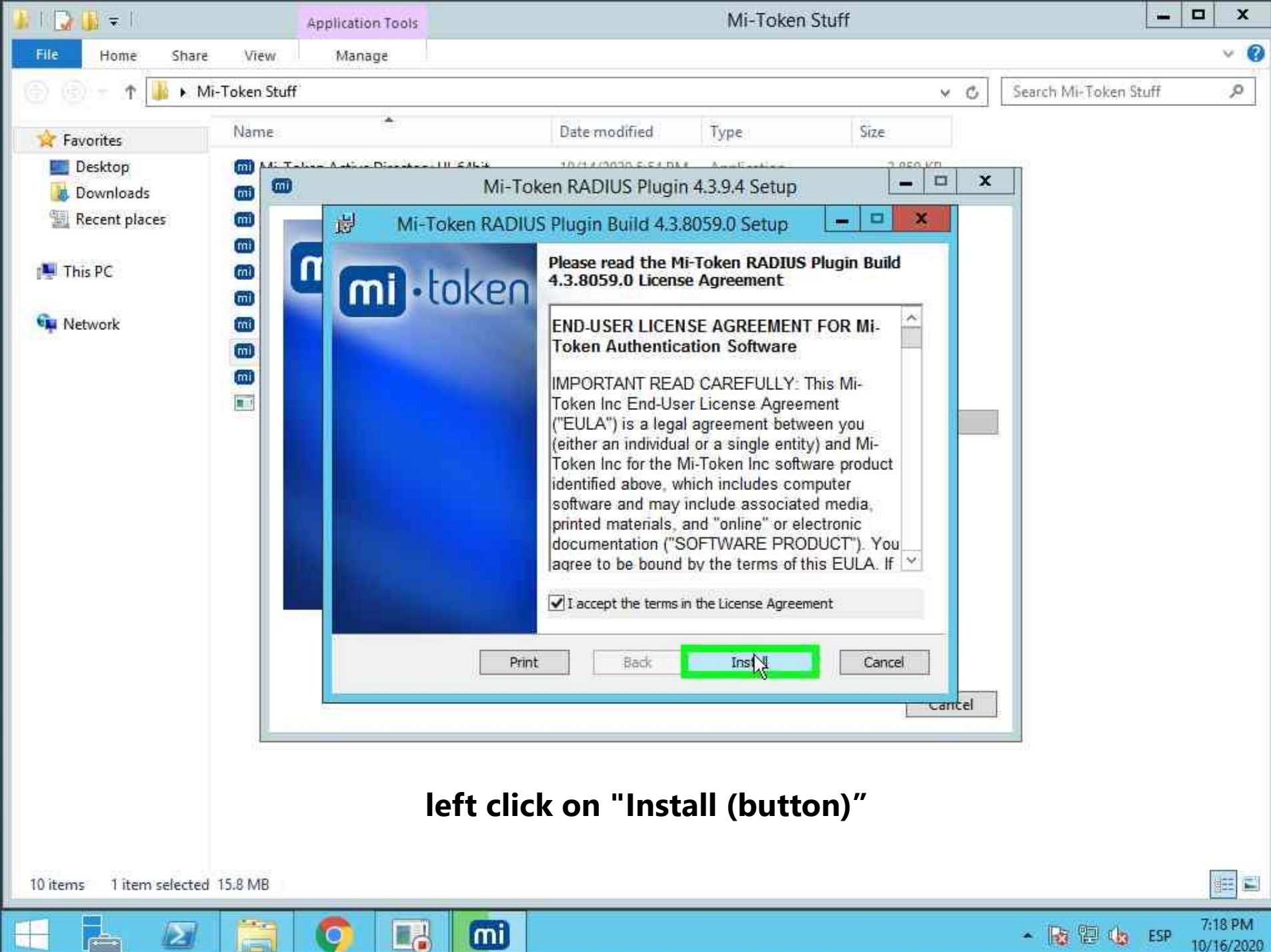
left double click on "Mi-Token Radius Plug in"

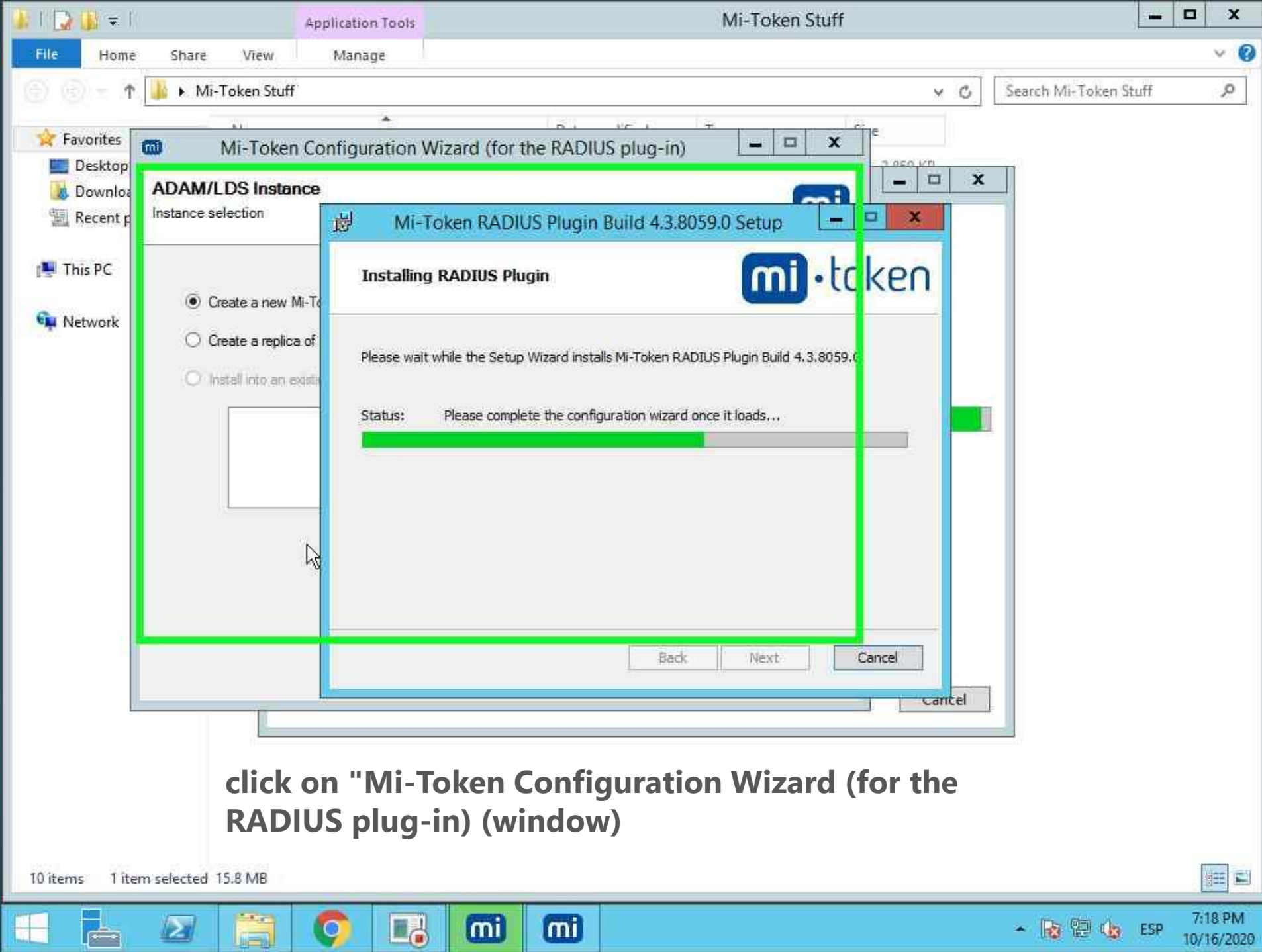




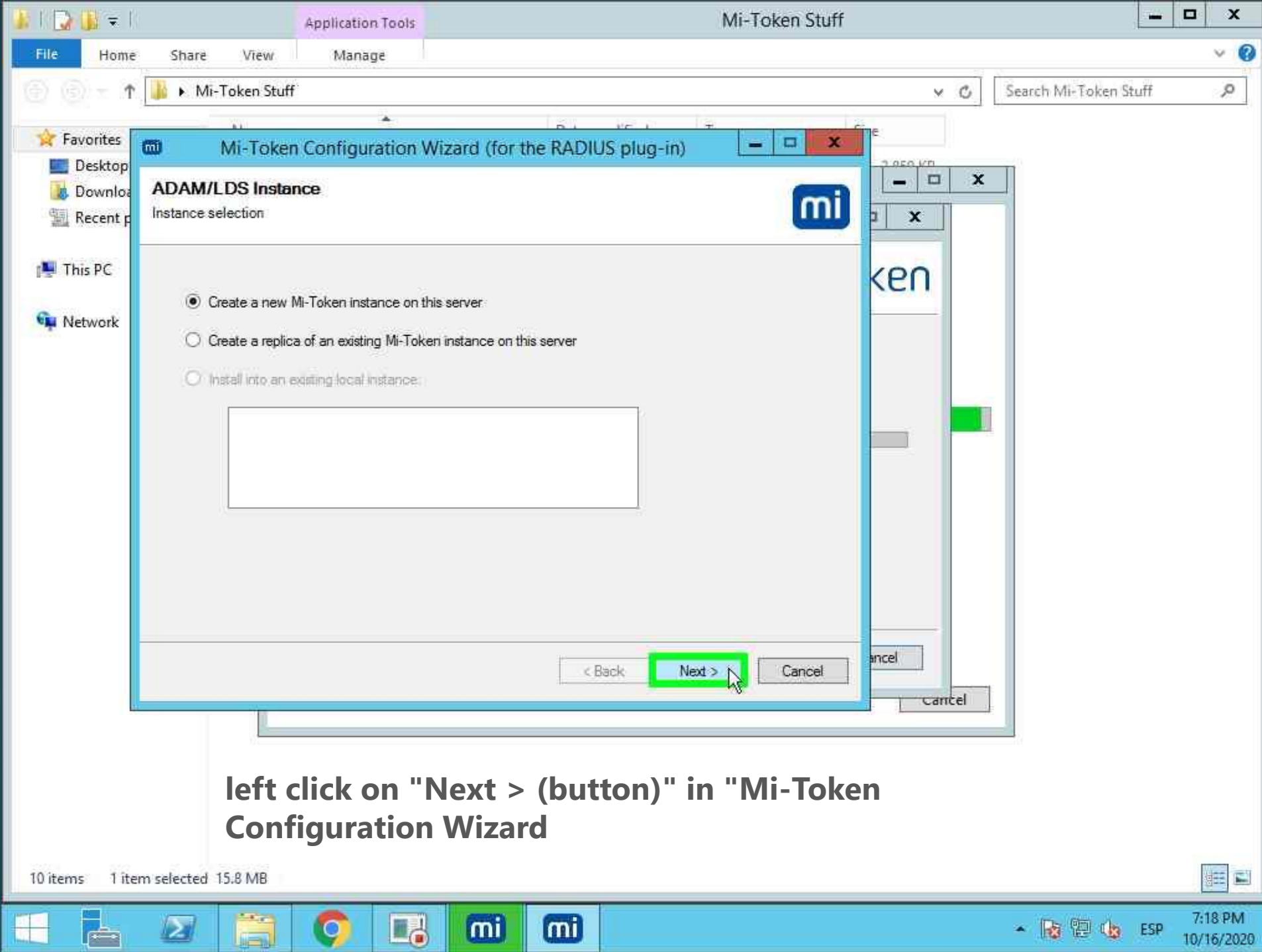


left click on "I accept the terms in the License Agreement" (check box)

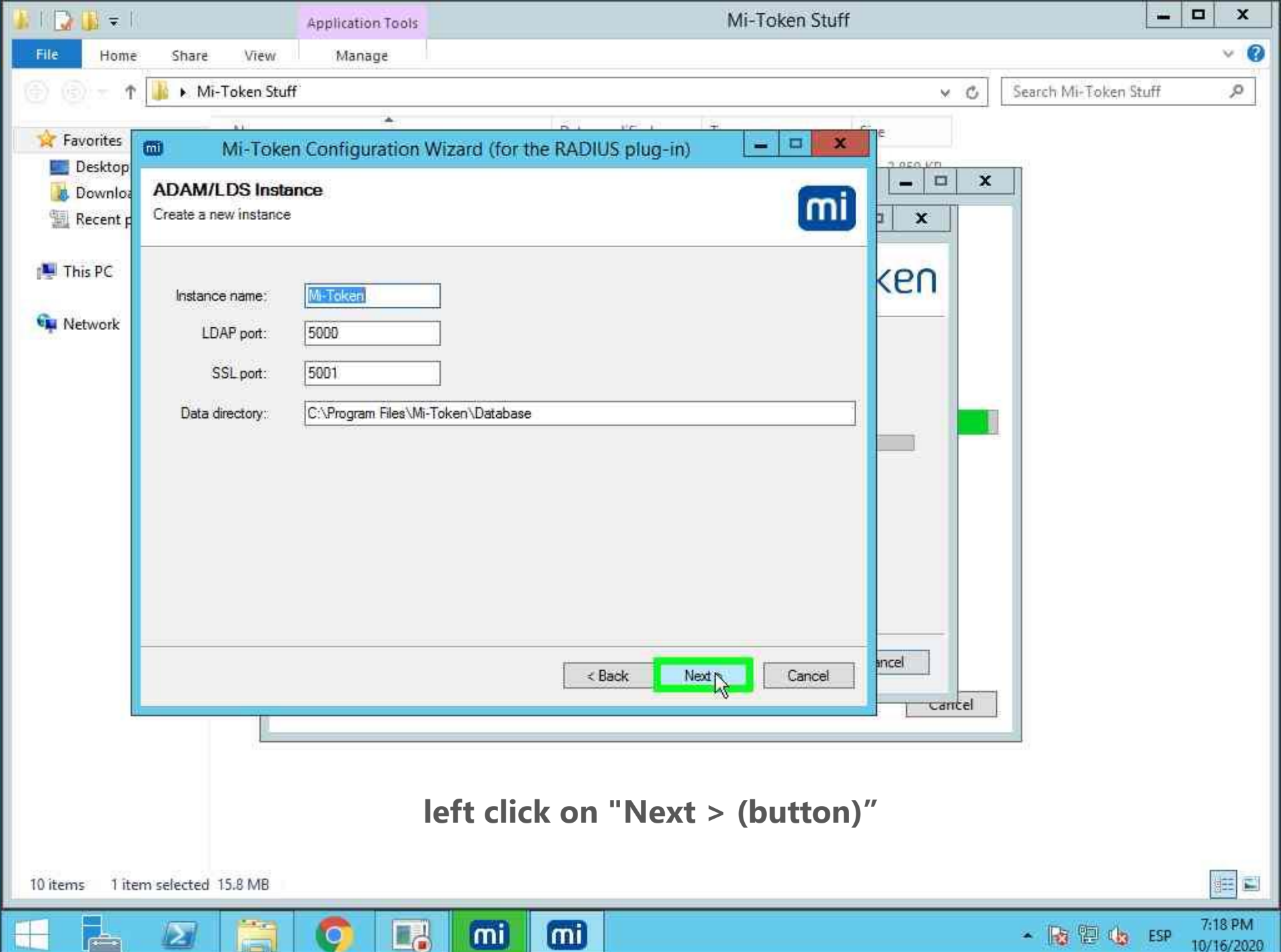




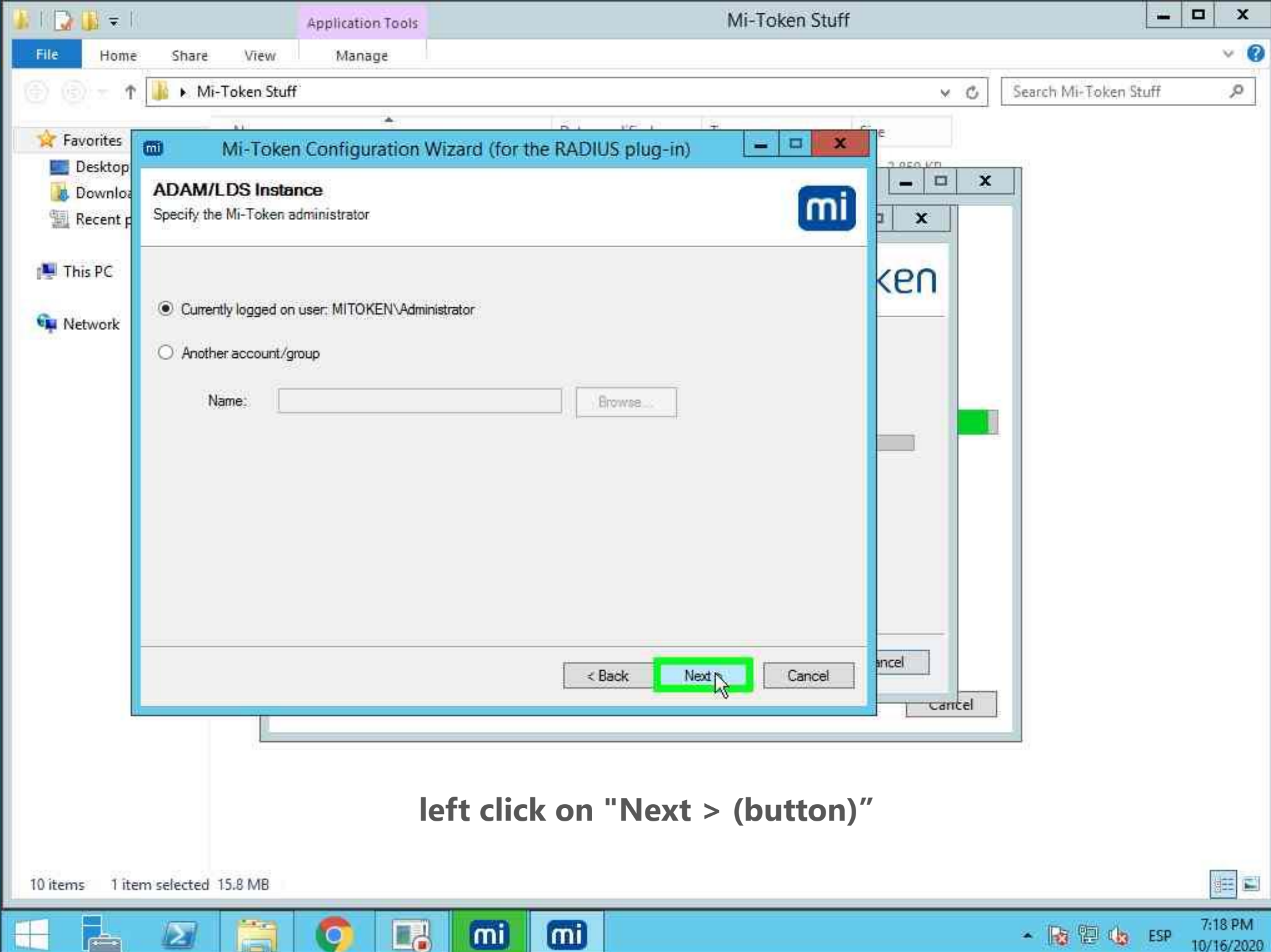
click on "Mi-Token Configuration Wizard (for the RADIUS plug-in) (window)



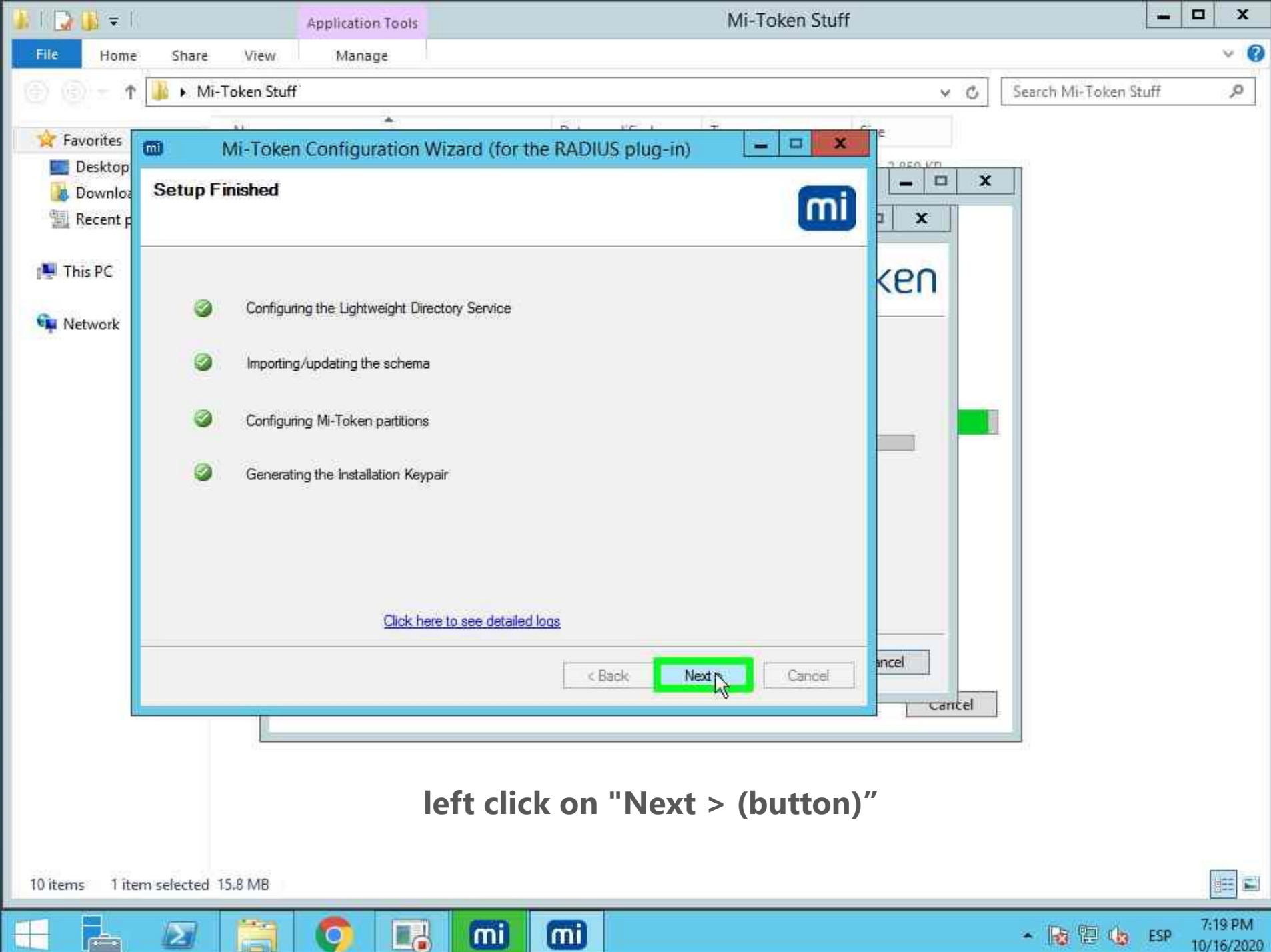
left click on "Next > (button)" in "Mi-Token Configuration Wizard"



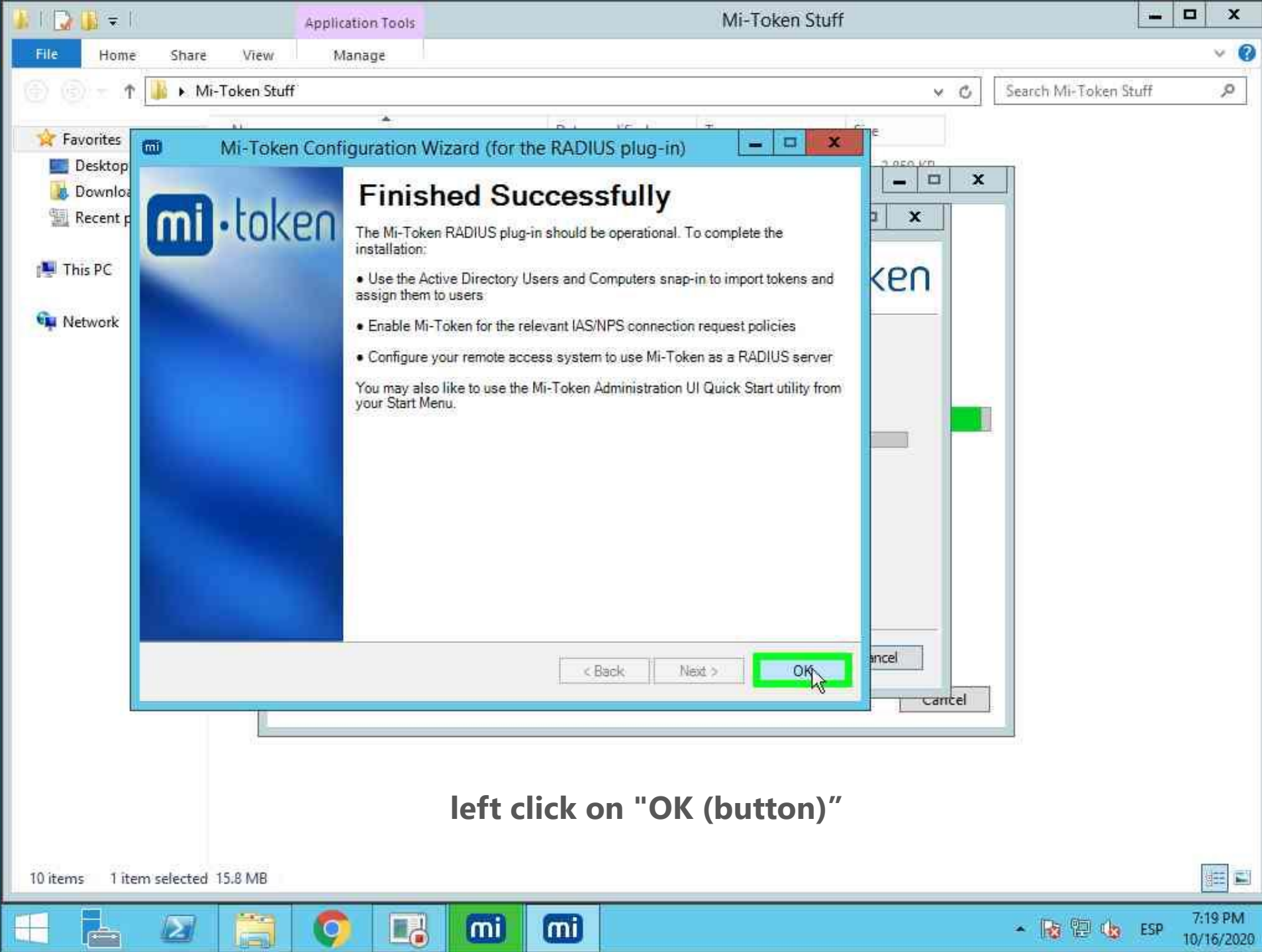
left click on "Next > (button)"



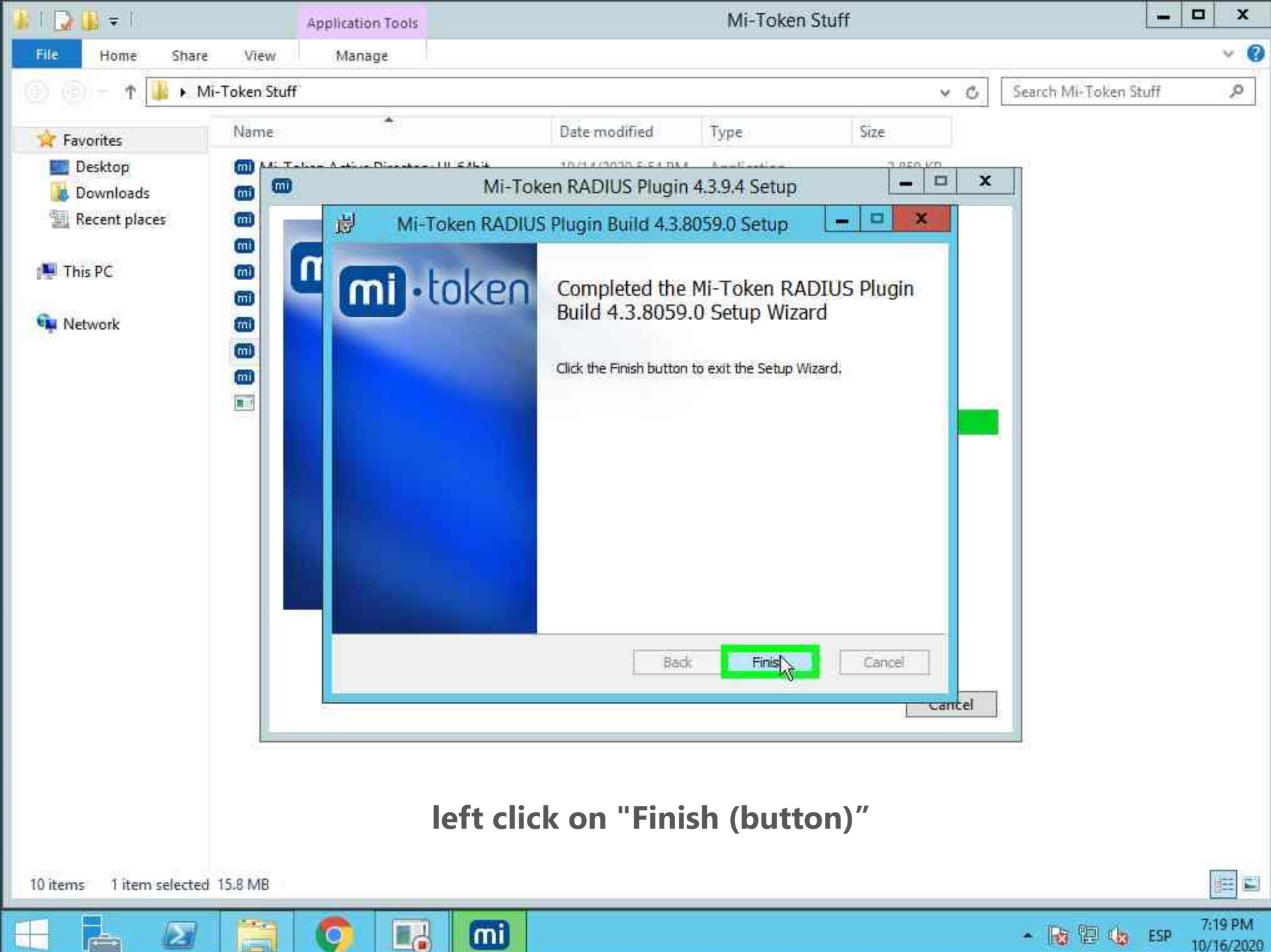
left click on "Next > (button)"



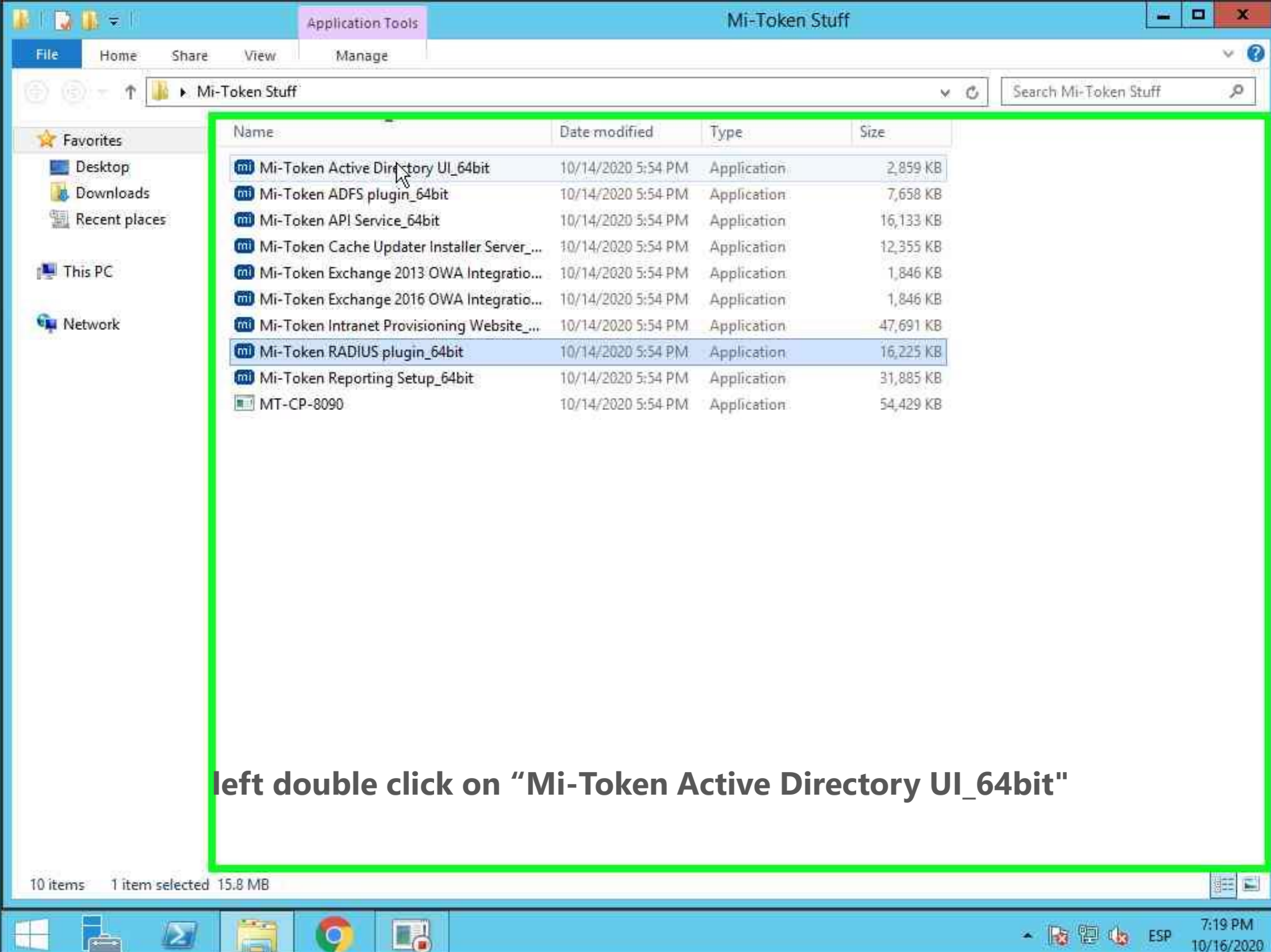
left click on "Next > (button)"

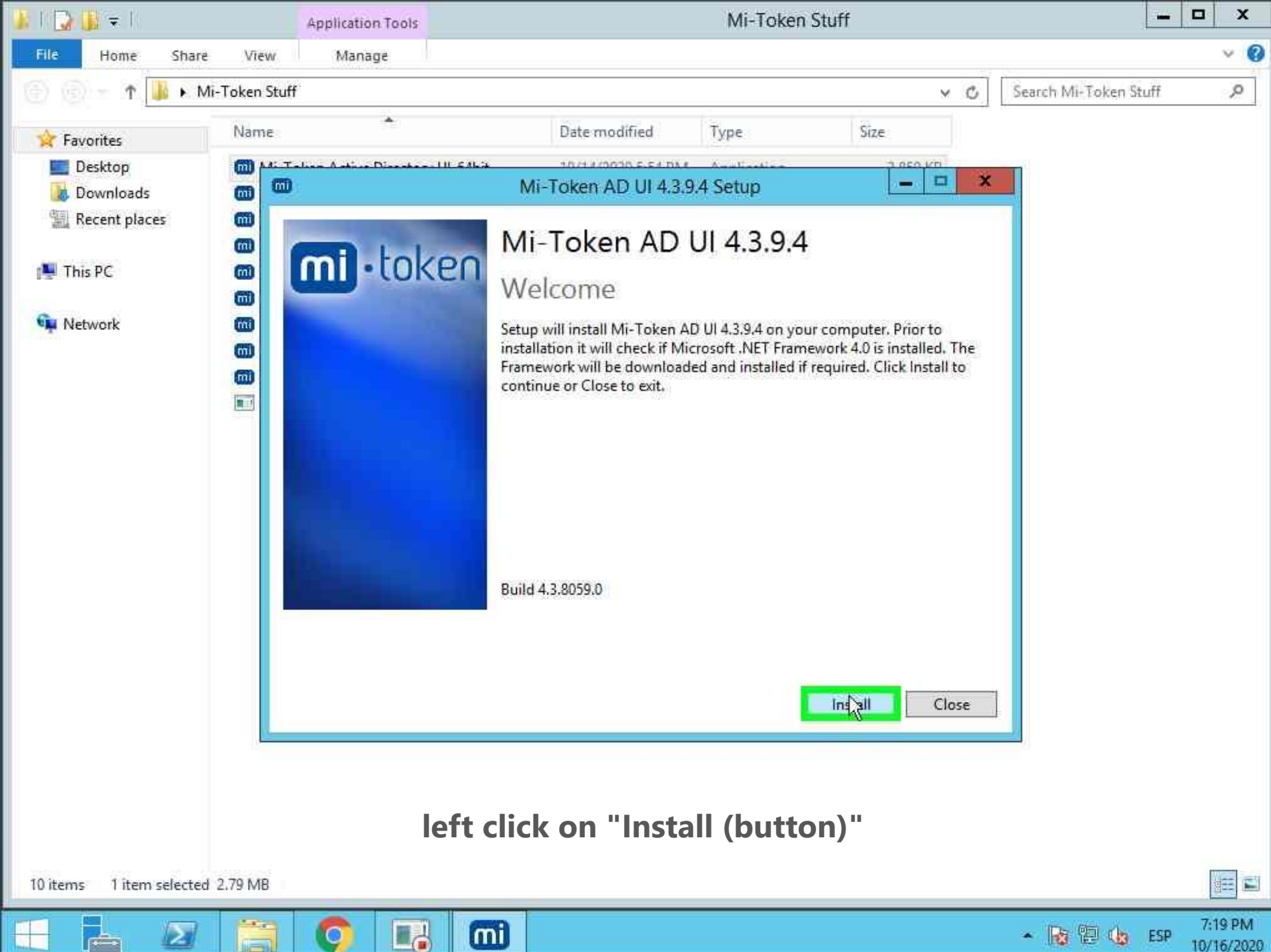


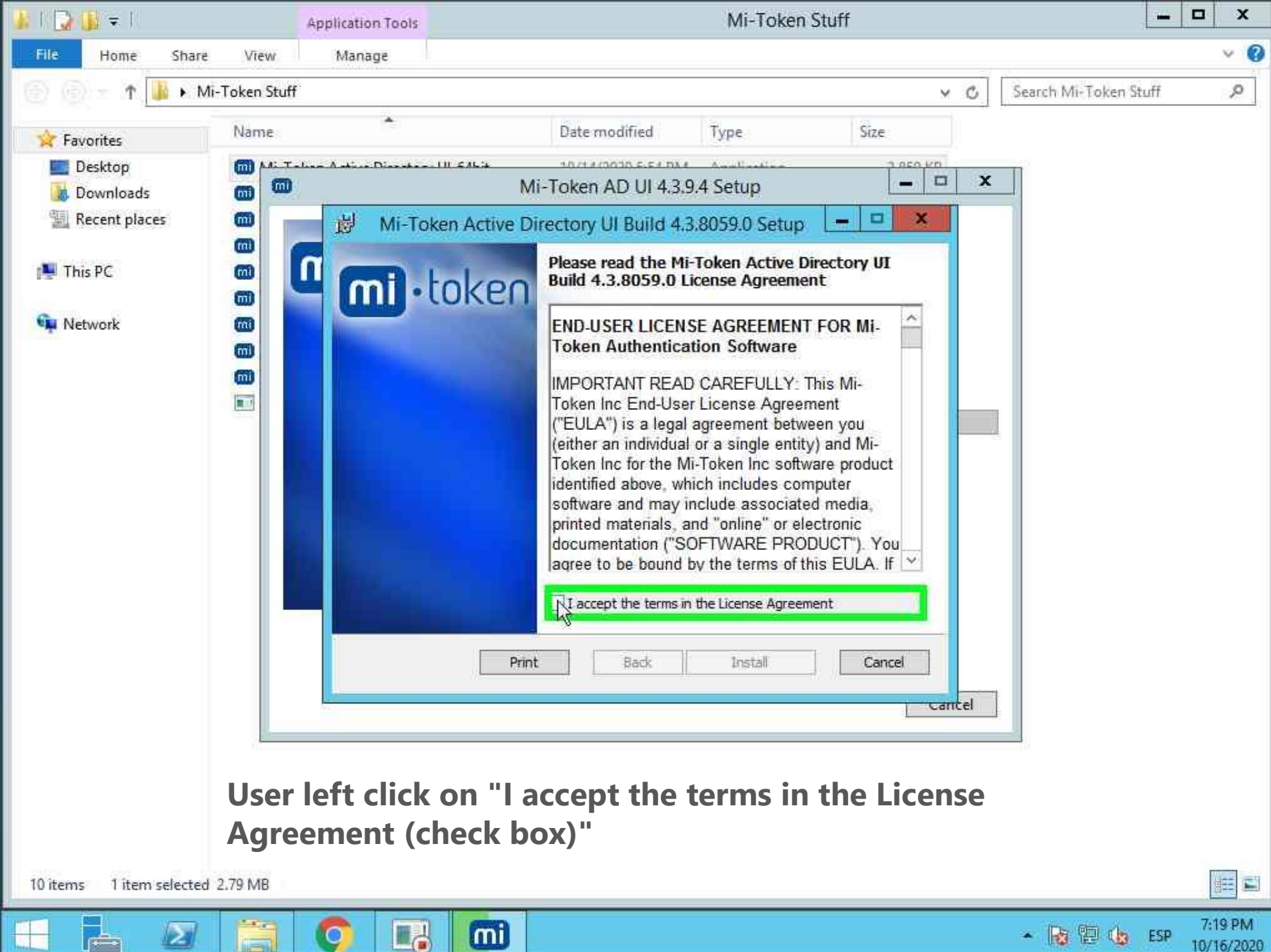
left click on "OK (button)"



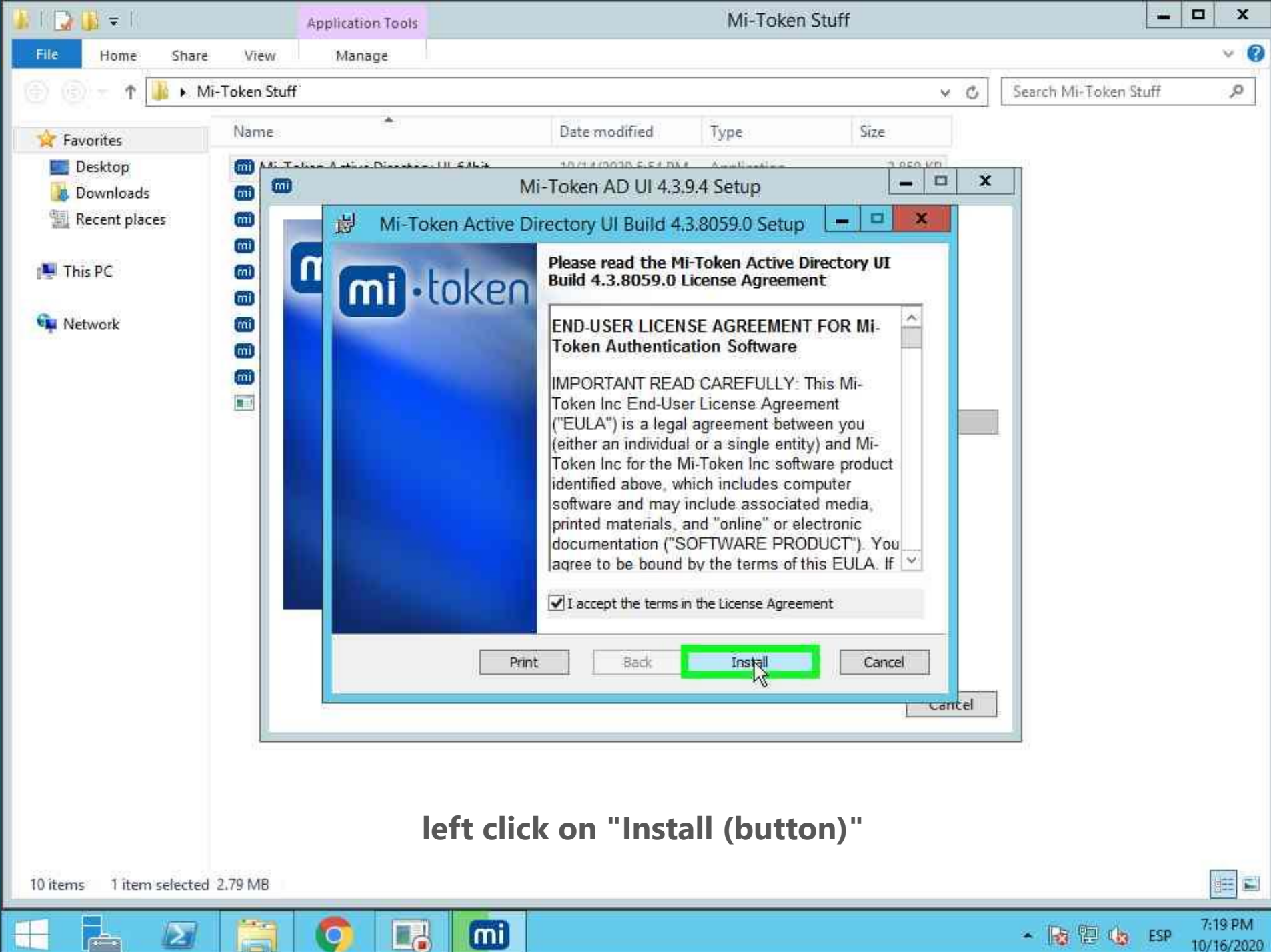
left click on "Finish (button)"

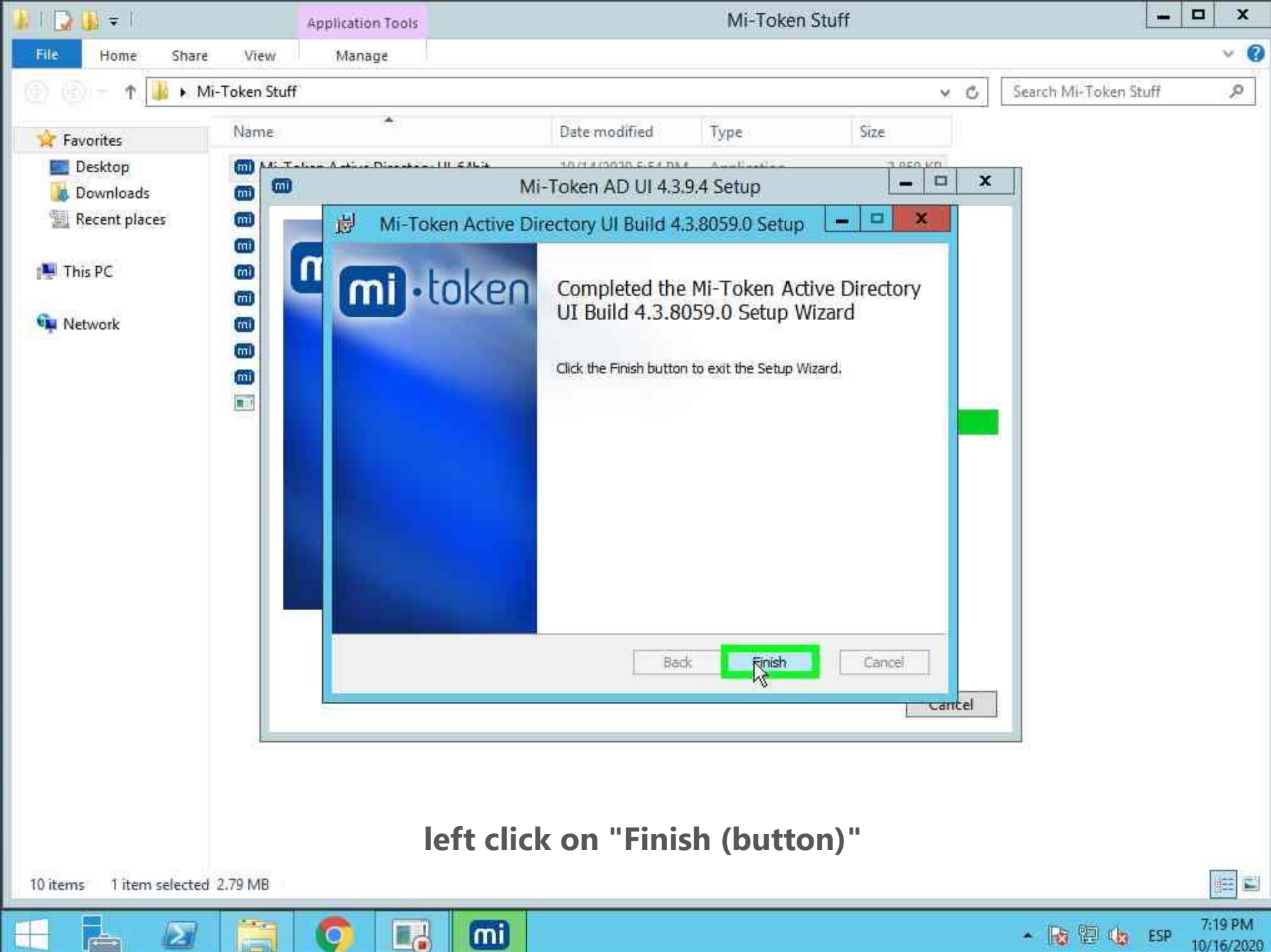


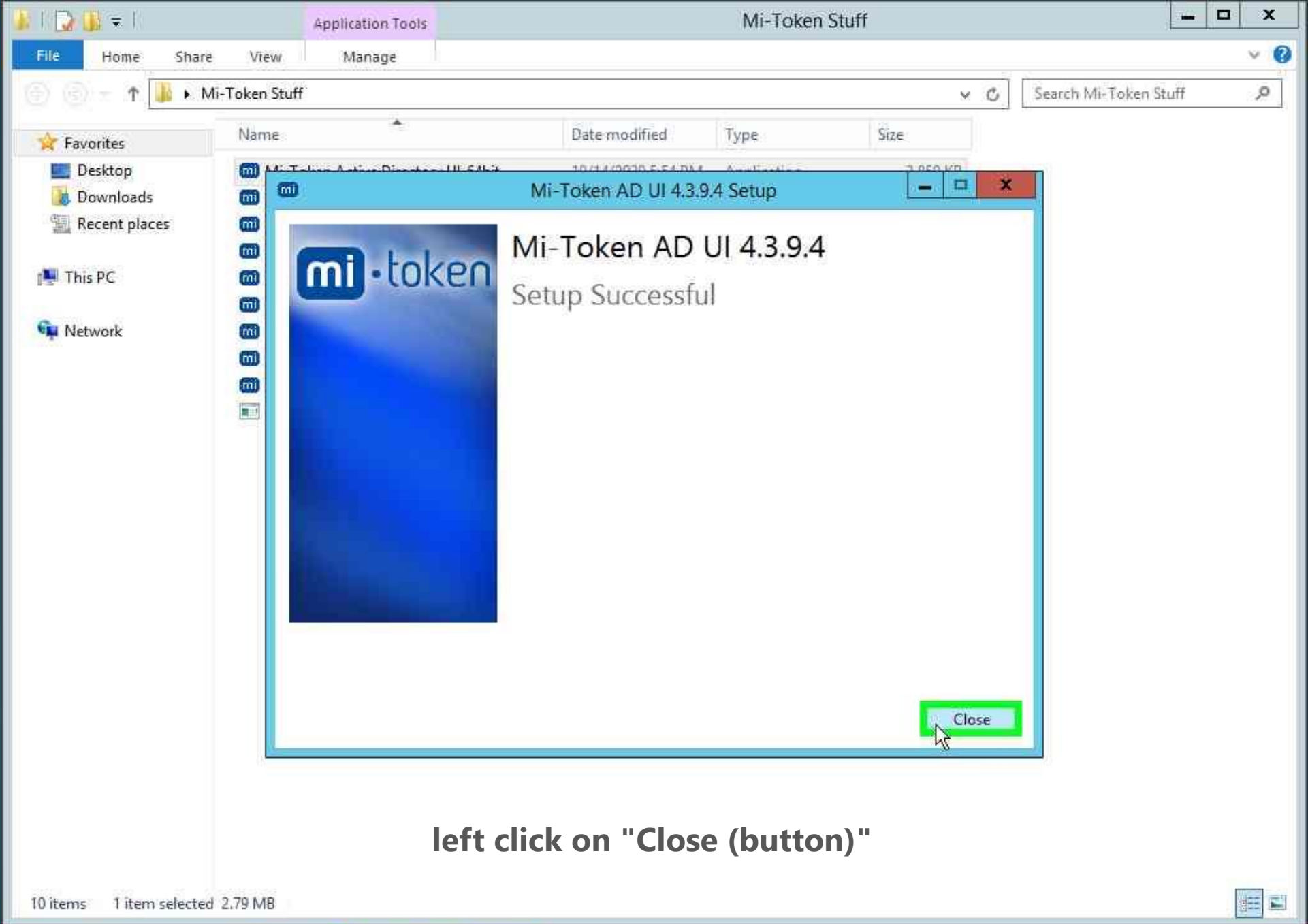




User left click on "I accept the terms in the License Agreement (check box)"







left click on "Close (button)"



Recycle Bin



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Chrome



Mi-Token
Stuff

 Windows Server 2012 R2

left click on "Start (list item)"



ESP

7:19 PM
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left double click on "Search Pane (Administration UI Quick-Start)"

Start


Server Manager


Windows PowerShell


Administrative Tools


This PC


Task Manager


Control Panel


Internet Explorer


Desktop

↓ 14 new apps installed

Search

Everywhere ▾





Administration UI Quick-Start

Microsoft Web Platform Installer

View the Microsoft error reporting privacy statement onli...

mi

minecraft

microsoft

michaels

microsoft teams

minecraft skins

microsoft rewards

microsoft store

microsoft 365 login



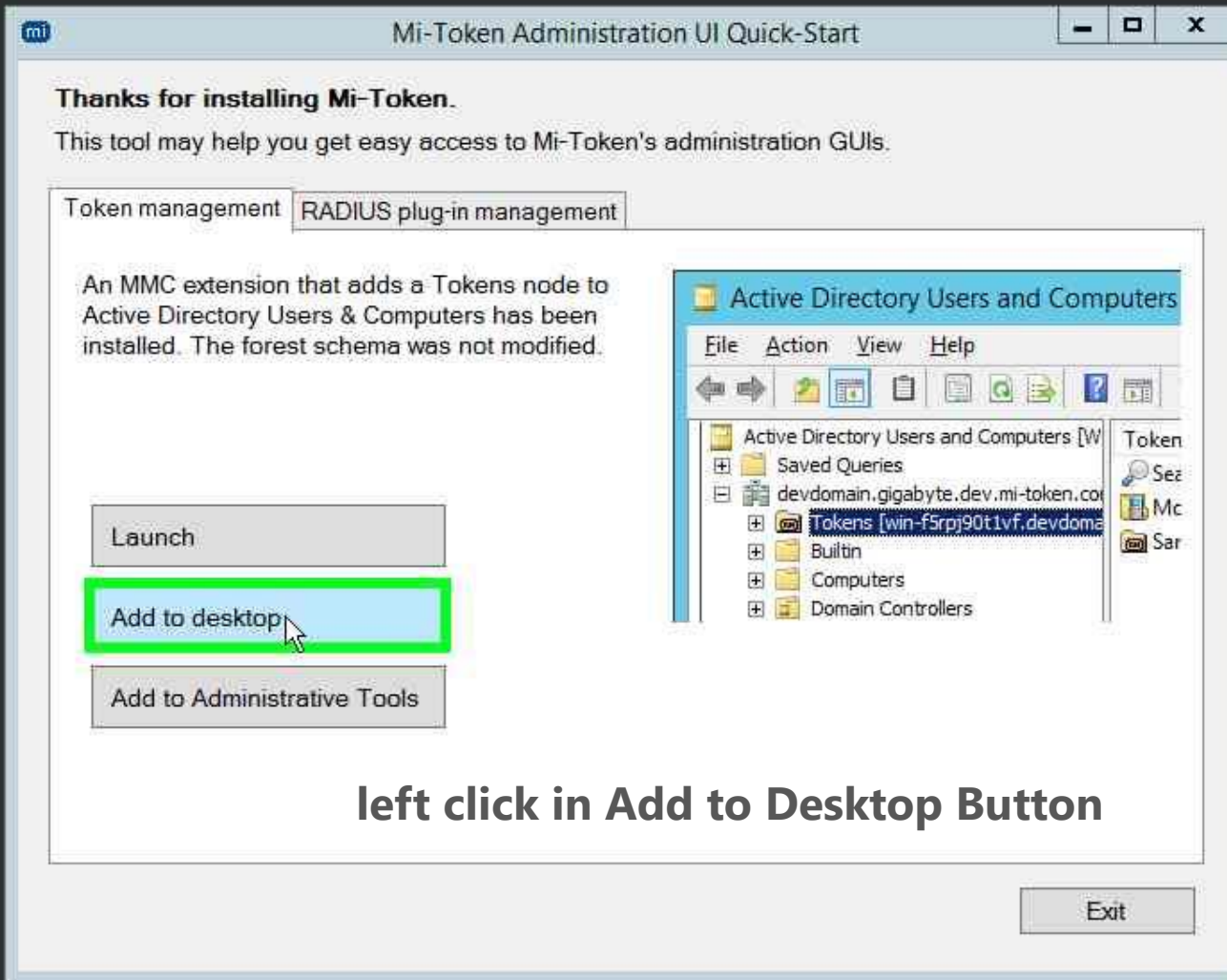
Recycle Bin



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Stuff



left click in Add to Desktop Button

server 2012 R2



Recycle Bin



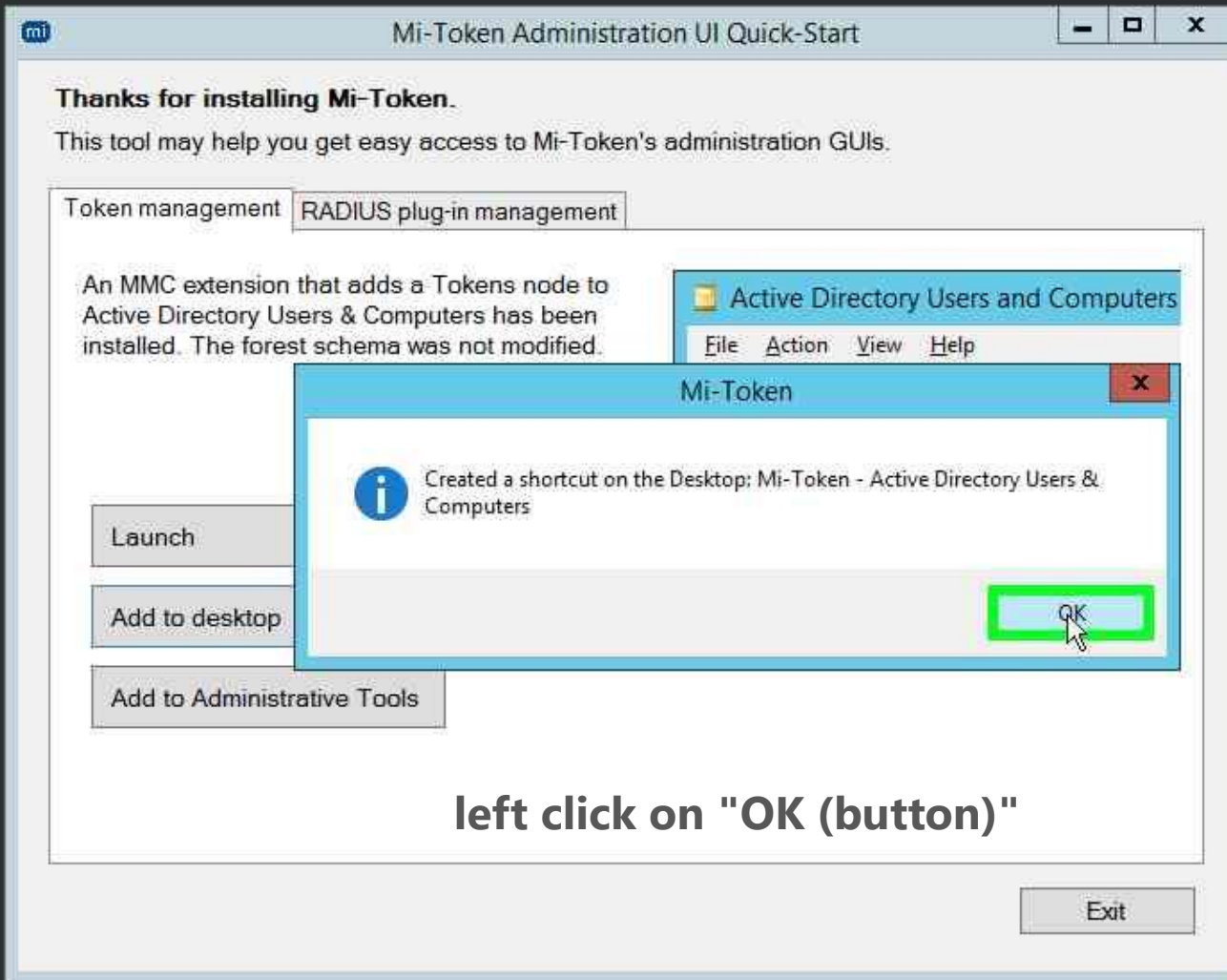
Google
Chrome



Mi-Token
Stuff



Mi-Token -
Active Dir...



left click on "OK (button)"

server 2012 R2



Recycle Bin



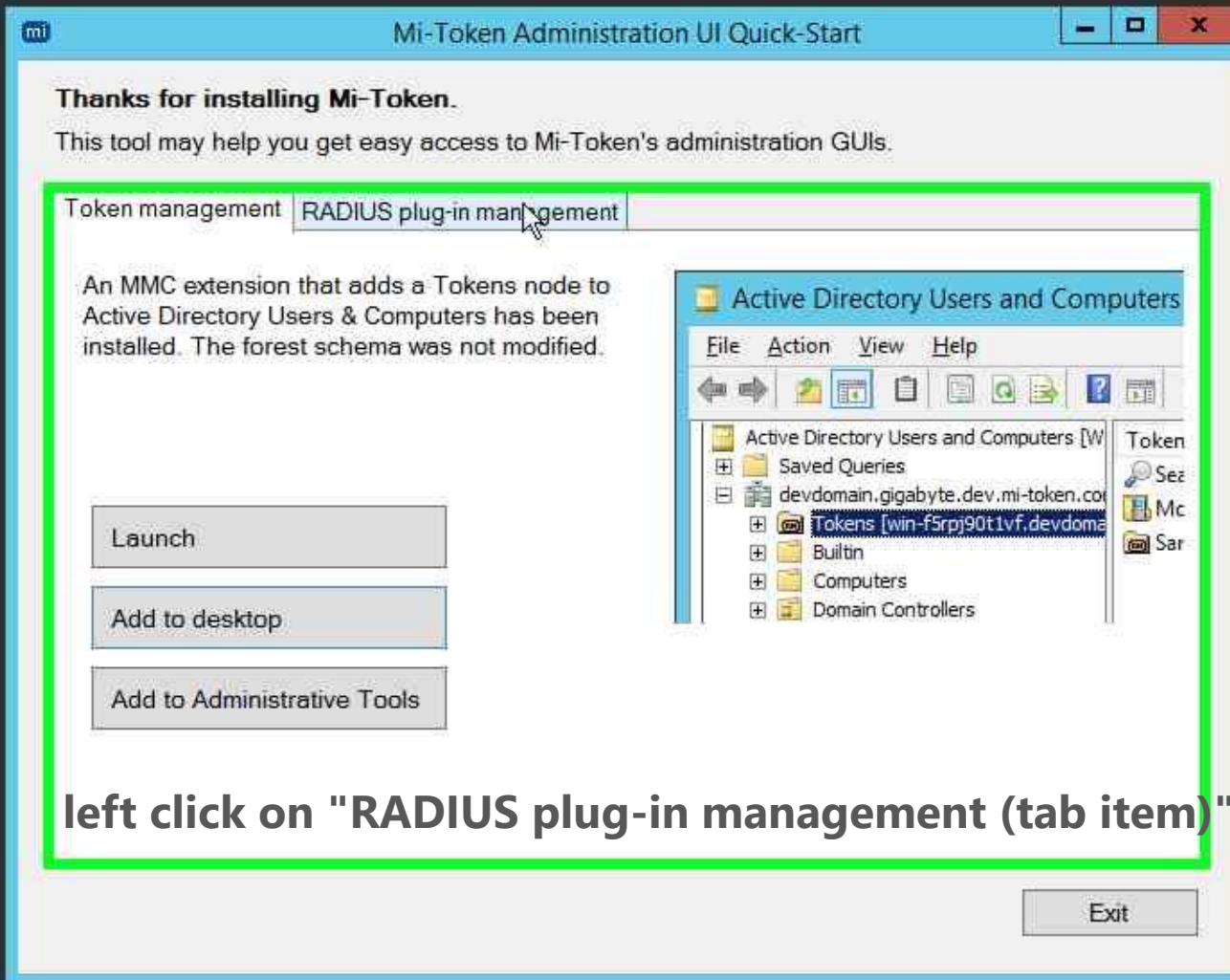
Google
Chrome



Mi-Token
Stuff



Mi-Token -
Active Dir...



left click on "RADIUS plug-in management (tab item)"

server 2012 R2





Recycle Bin



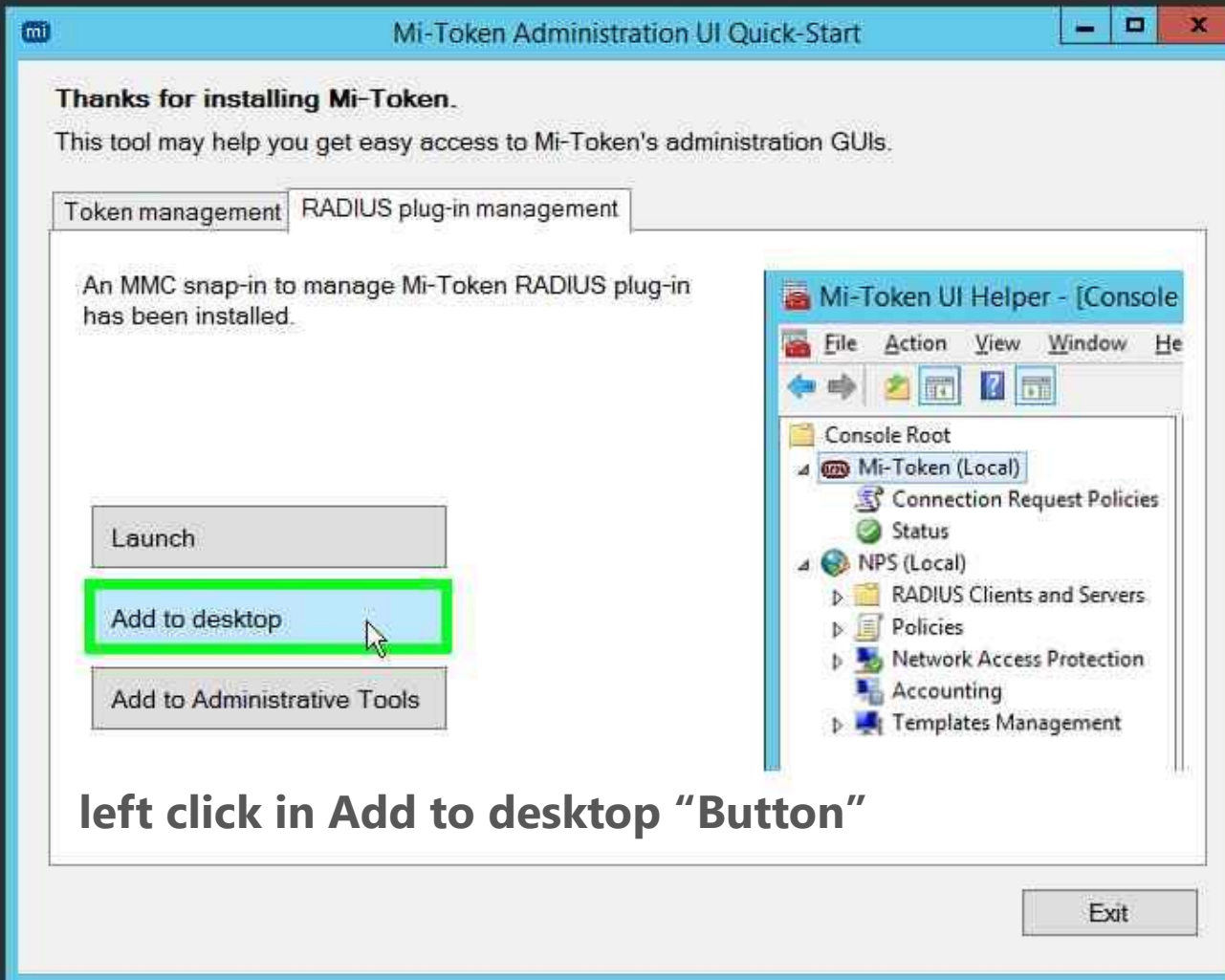
Google
Chrome



Mi-Token
Stuff



Mi-Token -
Active Dir...

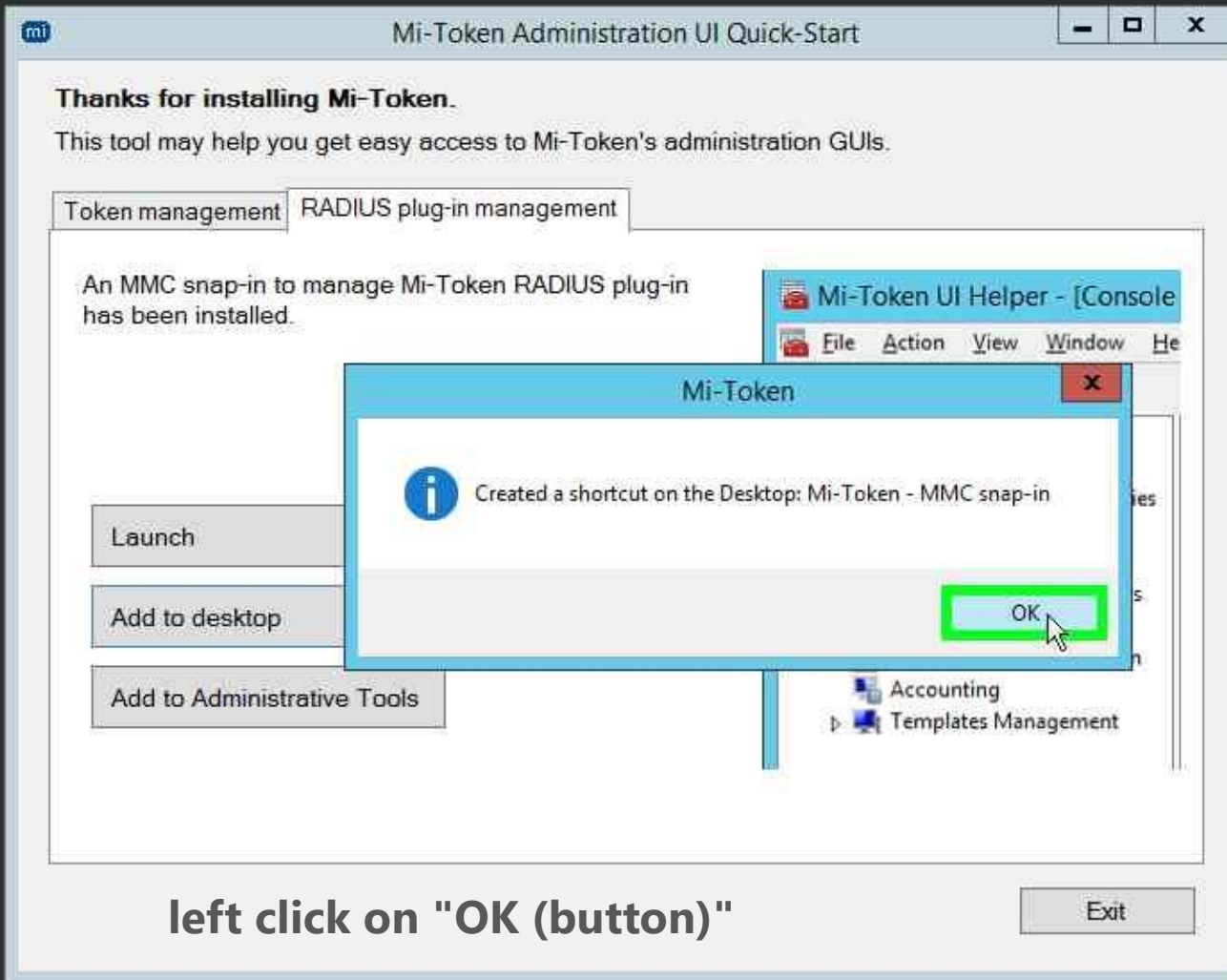


left click in Add to desktop "Button"

server 2012 R2



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10/16/2020



left click on "OK (button)"

server 2012 R2



mi

Mi-Token Administration UI Quick-Start

Thanks for installing Mi-Token.

This tool may help you get easy access to Mi-Token's administration GUIs.

Token management

RADIUS plug-in management

An MMC snap-in to manage Mi-Token RADIUS plug-in has been installed.

Launch

Add to desktop

Add to Administrative Tools

Mi-Token UI Helper - [Console]

File

Action

View

Window

Help

←

→

↺

↻

?

🏠

Console Root

└─ Mi-Token (Local)

└─ Connection Request Policies

└─ Status

└─ NPS (Local)

└─ RADIUS Clients and Servers

└─ Policies

└─ Network Access Protection

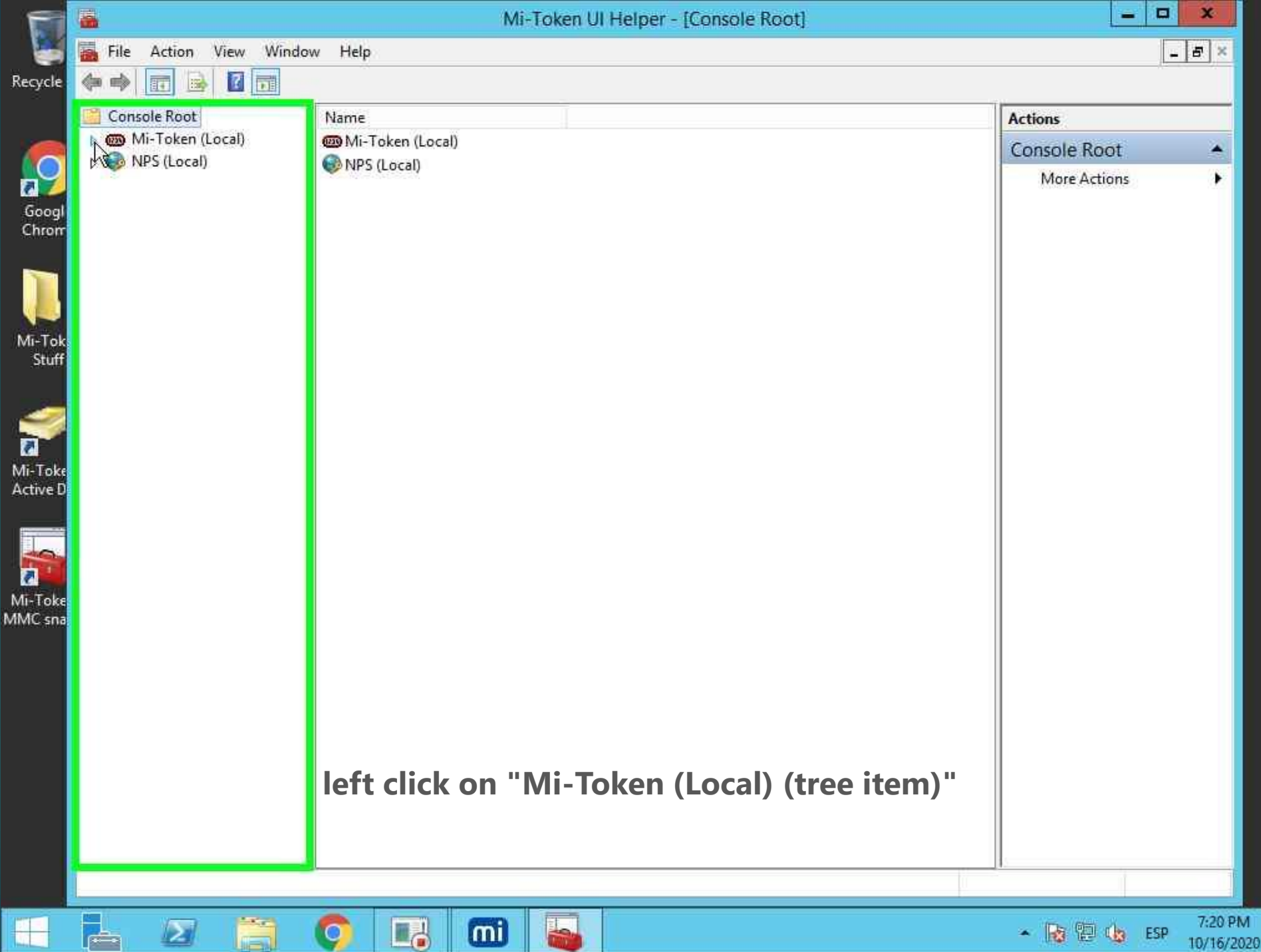
└─ Accounting

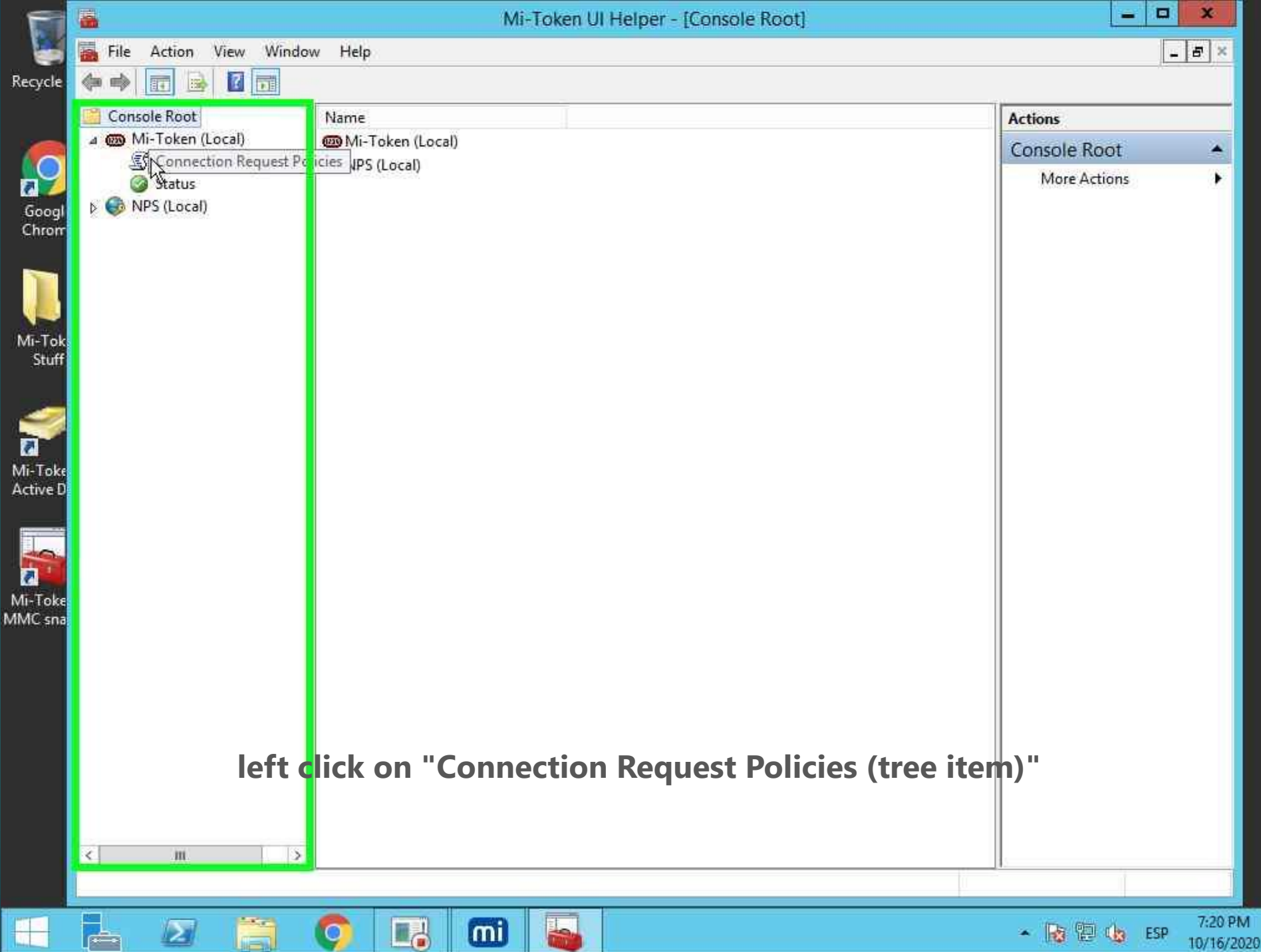
└─ Templates Management

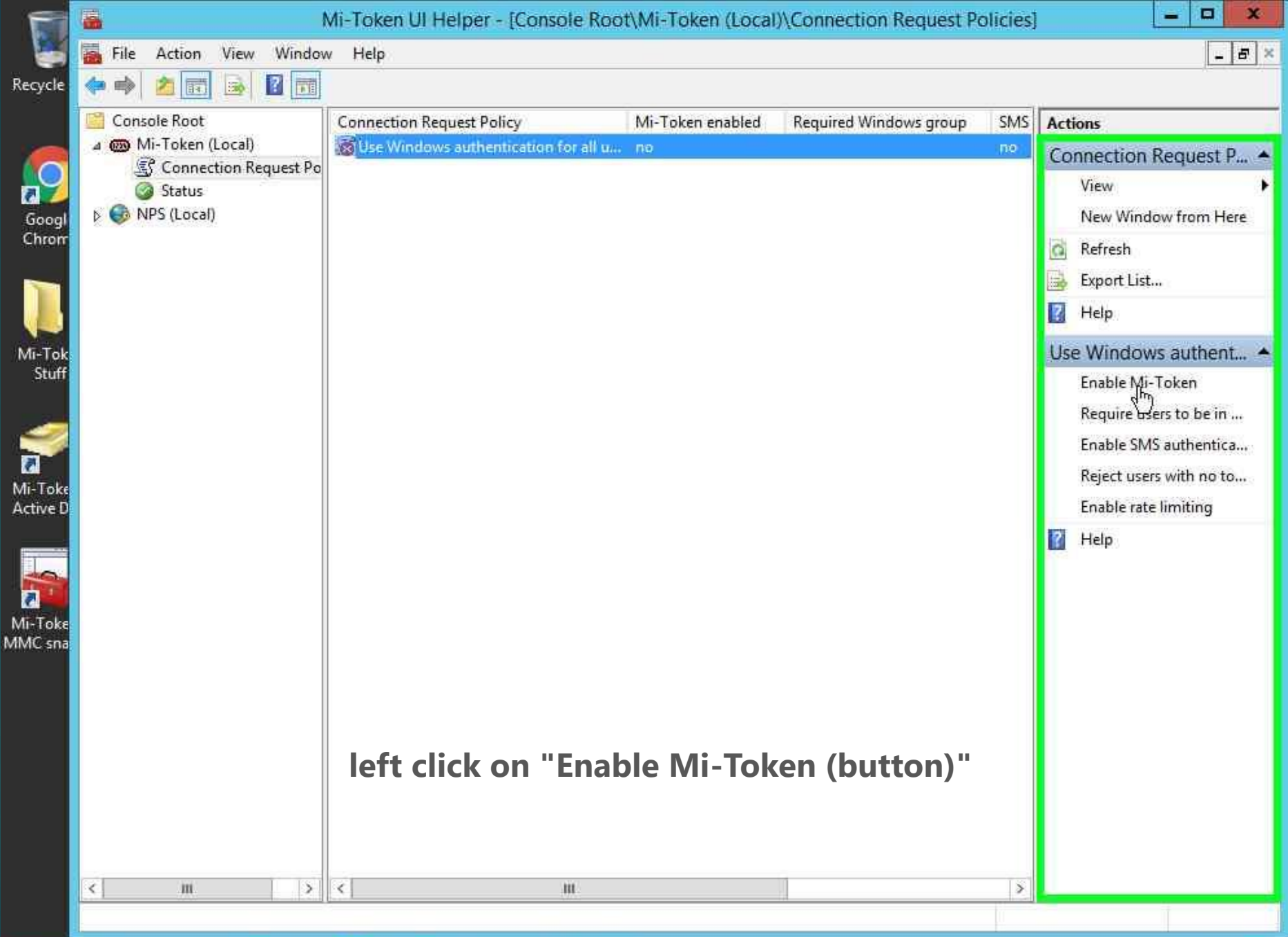
left click on "Launch (button)"

Exit

server 2012 R2







left click on "Enable Mi-Token (button)"

Mi-Token UI Helper - [Console Root\Mi-Token (Local)\Connection Request Policies]

File Action View Window Help

Recycle

Google Chrome

Mi-Token Stuff

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Mi-Token MMC sna

Console Root

- Mi-Token (Local)
 - Connection Request P...
 - Status
 - NPS (Local)

Connection Request Policy

Mi-Token enabled

Required Windows group

SMS

Use Windows authentication for all u... yes

no

Actions

Connection Request P...

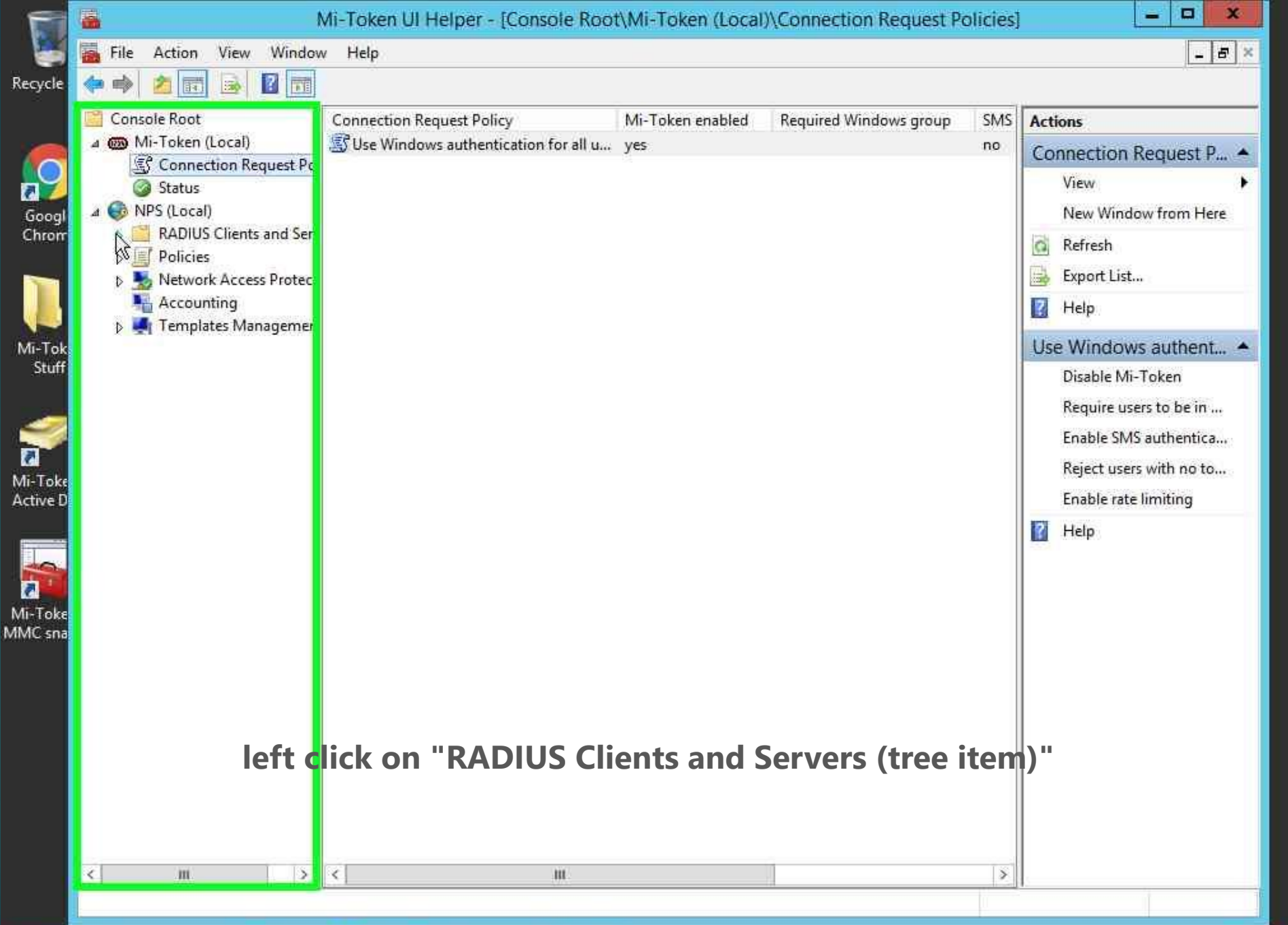
- View
- New Window from Here
- Refresh
- Export List...
- Help

Use Windows authent...

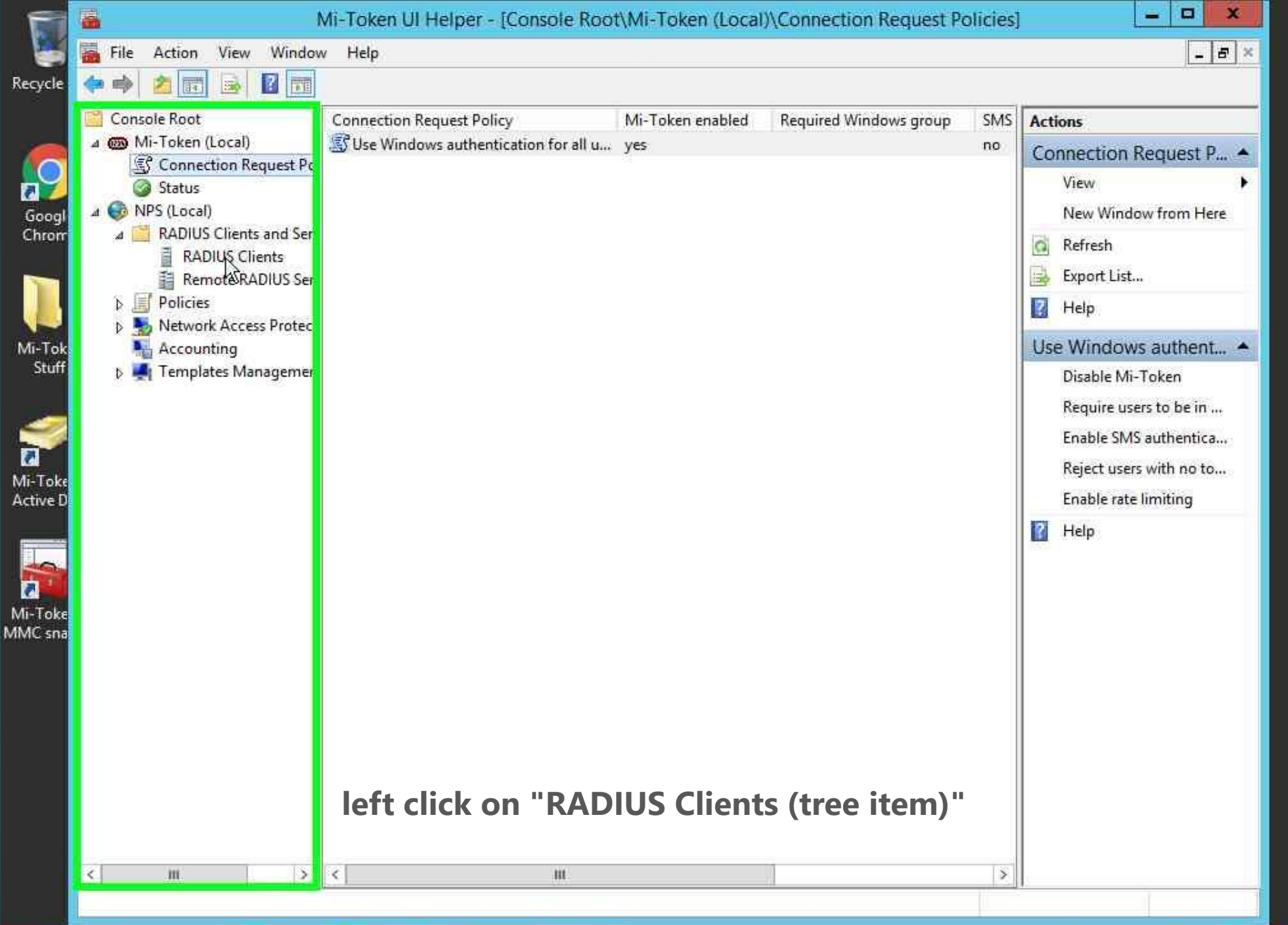
- Disable Mi-Token
- Require users to be in ...
- Enable SMS authentica...
- Reject users with no to...
- Enable rate limiting
- Help

left click on "NPS (Local) (tree item)"

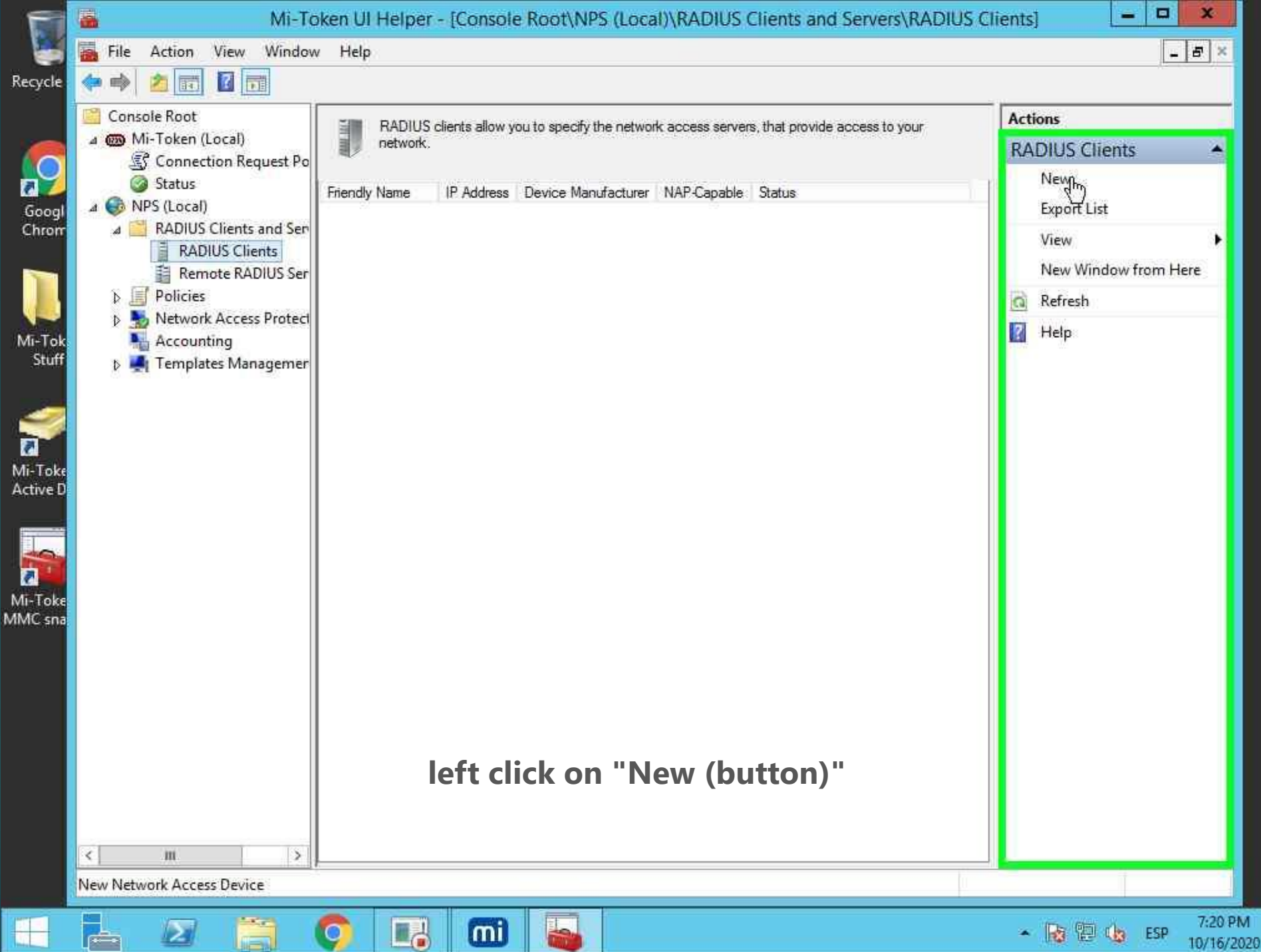
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left click on "RADIUS Clients and Servers (tree item)"



left click on "RADIUS Clients (tree item)"



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Mi-Token MMC sna

Mi-Token UI Helper - [Console Root\NPS (Local)\RADIUS Clients and Servers\RADIUS Clients]

File Action View Window Help

Console Root

- Mi-Token (Local)
 - Connection Request Po
 - Status
- NPS (Local)
 - RADIUS Clients and Ser
 - RADIUS Clients
 - Remote RADIUS Ser
 - Policies
 - Network Access Protect
 - Accounting
 - Templates Manager

New RADIUS Client

Settings Advanced

☒ Enable this RADIUS client

☐ Select an existing template:

Name and Address

Friendly name:

localhost

Address (IP or DNS):

Verify...

Shared Secret

Select an existing Shared Secrets template:

None

To manually type a shared secret, click Manual. To automatically generate a shared secret, click Generate. You must configure the RADIUS client with the same shared secret entered here. Shared secrets are case-sensitive.

☒ Manual☐ Generate

Shared secret:

Confirm shared secret:

OK

Cancel

Actions

RADIUS Clients

New

Export List

View

New Window from Here

Refresh

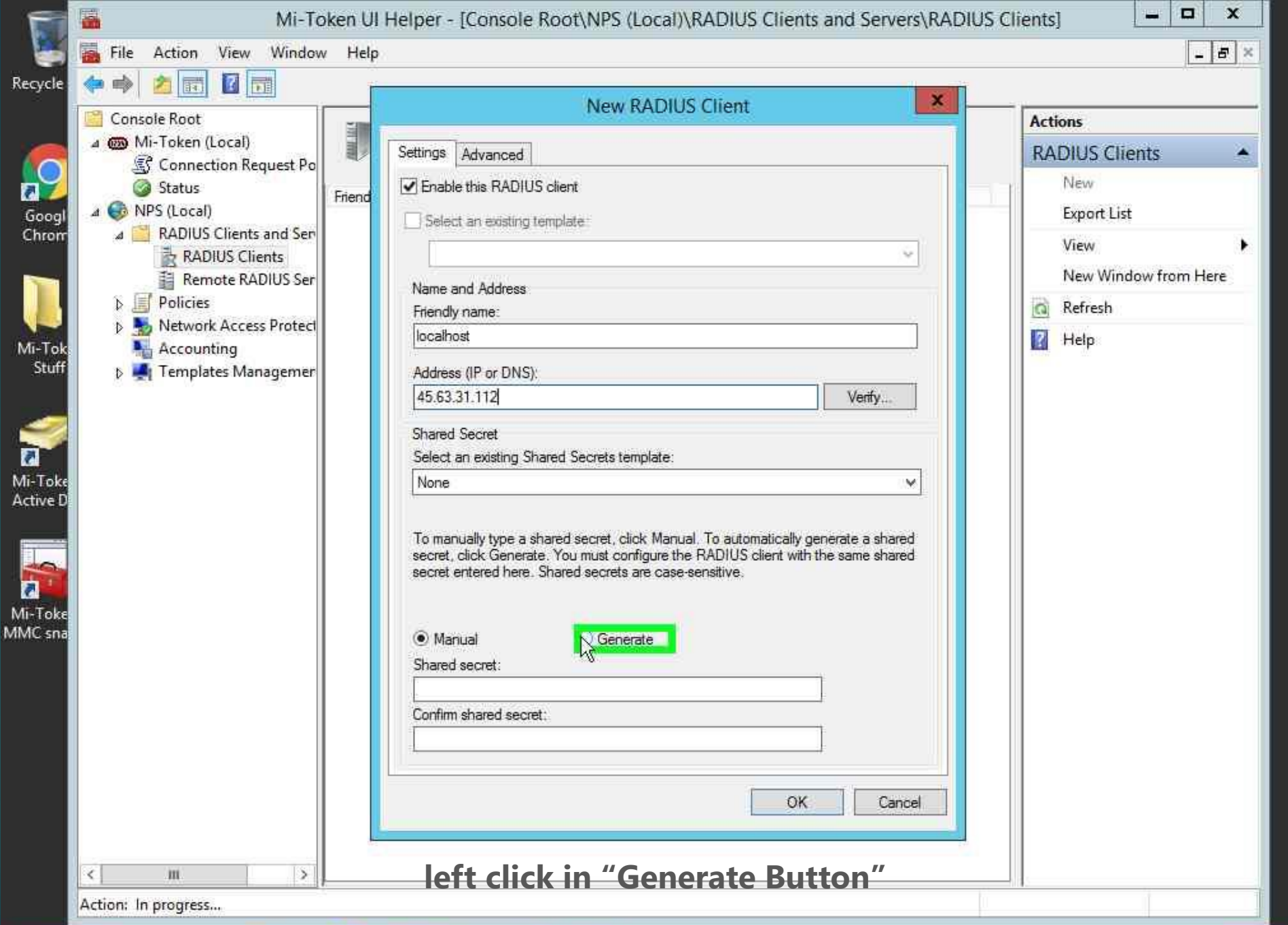
Help

Action: In progress...

keyboard input in Friendly name and Address (IP or DNS)

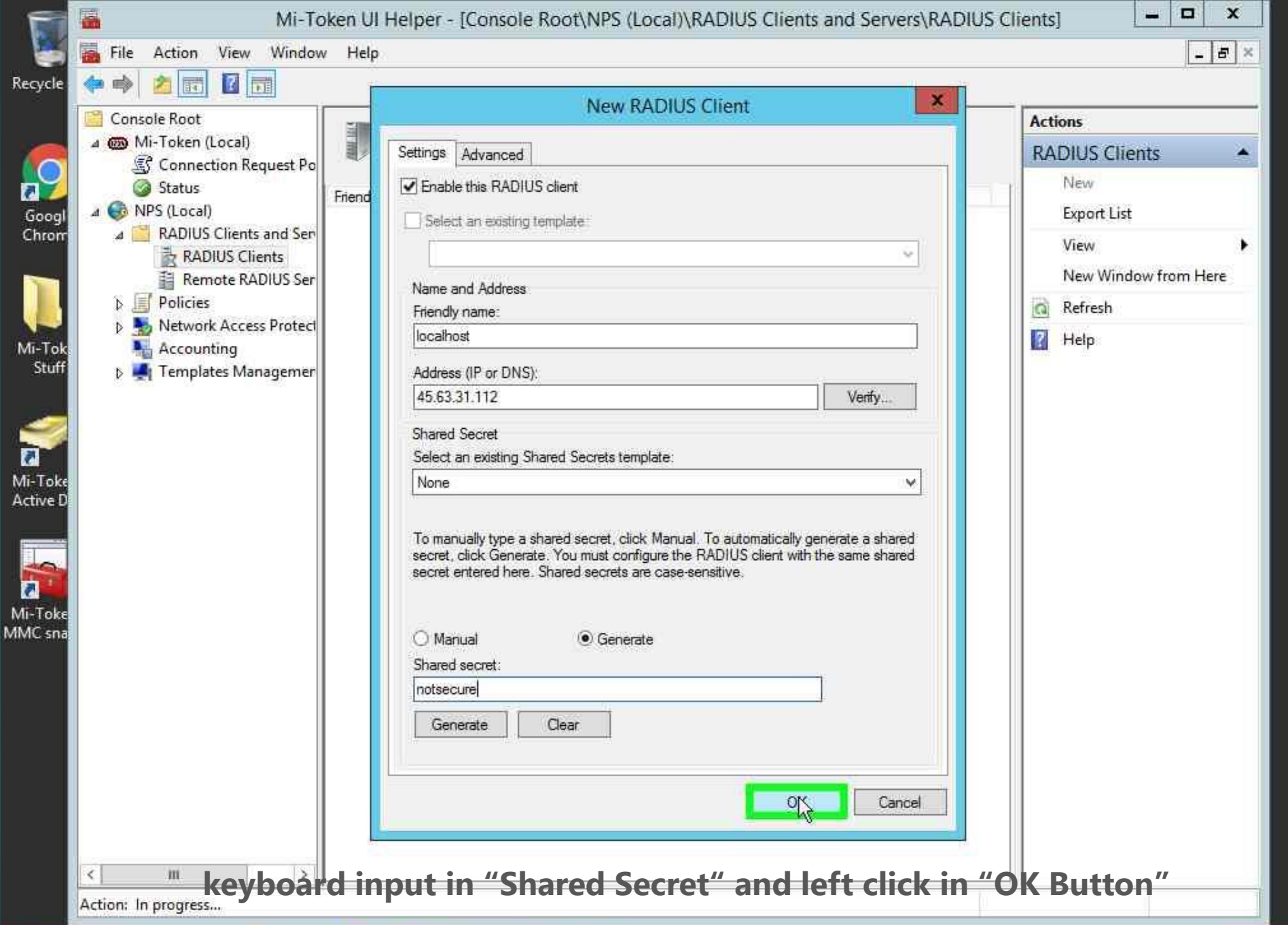
Windows Taskbar

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left click in "Generate Button"

Action: In progress...



keyboard input in "Shared Secret" and left click in "OK Button"

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Mi-Token UI Helper - [Console Root\NPS (Local)\RADIUS Clients and Servers\RADIUS Clients]

File Action View Window Help

Console Root

- Mi-Token (Local)
 - Connection Request Po
 - Status
- NPS (Local)
 - RADIUS Clients and Ser
 - RADIUS Clients**
 - Remote RADIUS Ser
 - Policies
 - Network Access Protec
 - Accounting
 - Templates Managemen

RADIUS clients allow you to specify the network access servers, that provide access to your network.

Friendly Name	IP Address	Device Manufacturer	NAP-Capable	Status
localhost	45.63.31.112	RADIUS Standard	No	Enabled

Actions

RADIUS Clients

New

Export List

View

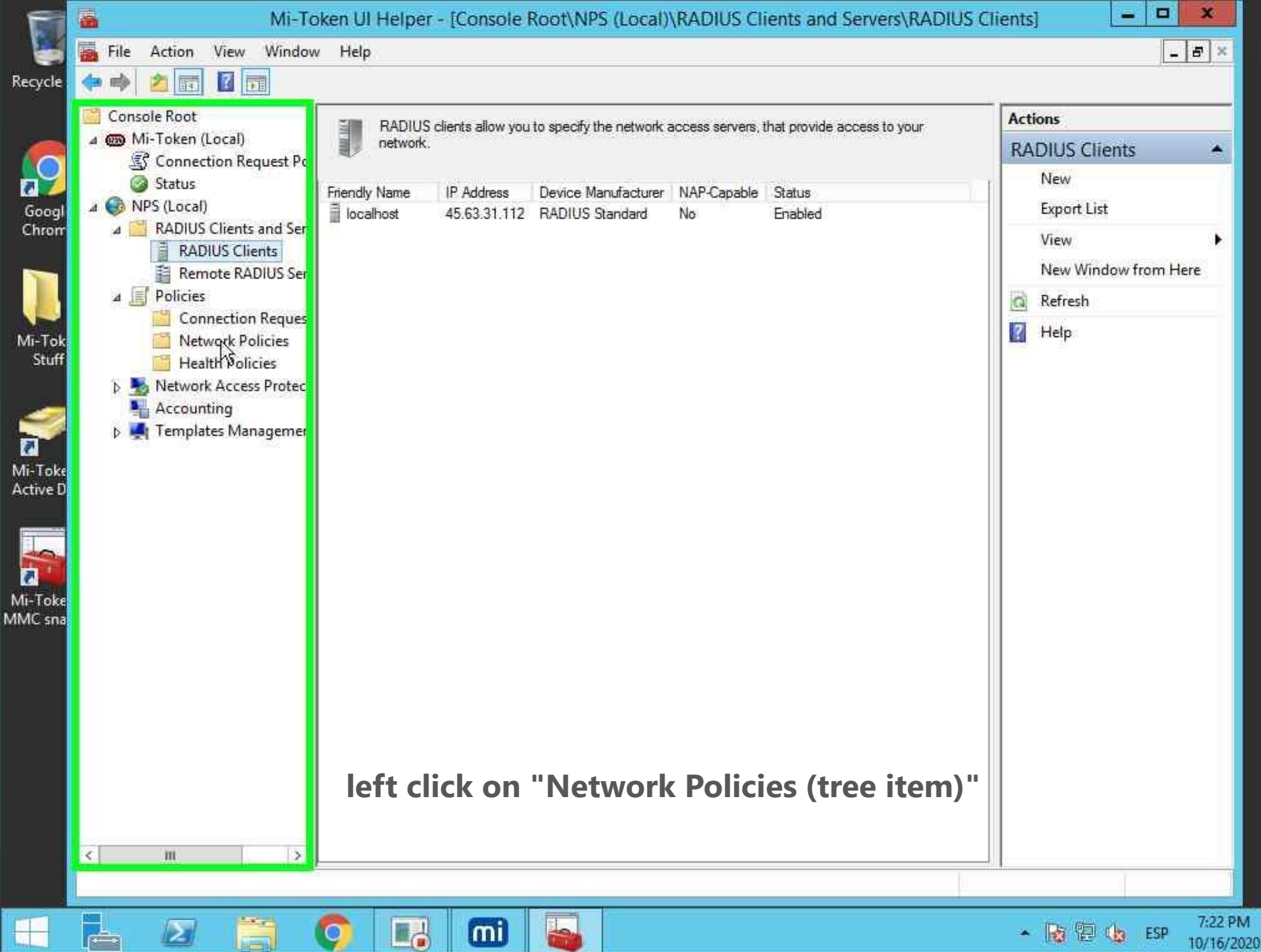
New Window from Here

Refresh

Help

left click on "Policies (tree item)"

7:22 PM10/16/2020



left click on "Network Policies (tree item)"

Recycle

Google Chrome

Mi-Token Stuff

Mi-Token Active D

Mi-Token MMC sna

File Action View Window Help

Console Root

- Mi-Token (Local)
 - Connection Request Po
 - Status
- NPS (Local)
 - RADIUS Clients and Ser
 - RADIUS Clients
 - Remote RADIUS Ser
 - Policies
 - Connection Request
 - Network Policies
 - Health Policies
 - Network Access Protect
 - Accounting
 - Templates Managemer

Network policies allow you to designate who is authorized to connect to the network and the circumstances under which they can or cannot connect.

Policy Name	Status	Processing Order	Access Type
Connections to Microsoft Routing and Remote Access server	Enabled	999998	Deny Access
Connections to other access servers	Enabled	999999	Deny Access

Conditions - If the following conditions are met:

Condition	Value
-----------	-------

Settings - Then the following settings are applied:

Setting	Value
---------	-------

Actions

- Network Policies
 - New
 - Export List
 - View
 - New Window from Here
 - Refresh
 - Help

left double click in "Connections together access servers"

Windows Taskbar

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MMC sna

File Action View Window Help

Connections to other access servers Properties

Overview

Conditions

Constraints

Settings

Policy name:

Connections to other access servers

Policy State

If enabled, NPS evaluates this policy while performing authorization. If disabled, NPS does not evaluate this policy.

☒ Policy enabled

Access Permission

If conditions and constraints of the network policy match the connection request, the policy can either grant access or deny access. [What is access permission?](#)

☒ Grant access. Grant access if the connection request matches this policy.☐ Deny access. Deny access if the connection request matches this policy.☐ Ignore user account dial-in properties.

If the connection request matches the conditions and constraints of this network policy and the policy grants access, perform authorization with network policy only; do not evaluate the dial-in properties of user accounts.

Network connection method

Select the type of network access server that sends the connection request to NPS. You can select either the network access server type or Vendor specific, but neither is required. If your network access server is an 802.1X authenticating switch or wireless access point, select Unspecified.

☒ Type of network access server:

Unspecified

☐ Vendor specific:

10

left click on "Grant access. Grant access if the connection request matches this policy. (radio button)"

OK

Cancel

Apply

ESP

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10/16/2020

File Action View Window Help

Connections to other access servers Properties

Overview Conditions **Constraints** Settings

Configure the conditions for this network policy.

If conditions match the connection request, NPS uses this policy to authorize the connection request. If conditions do not match the connection request, NPS skips this policy and evaluates other policies, if additional policies are configured.

Condition	Value
Day and time restrictions	Sunday 00:00-24:00 Monday 00:00-24:00 Tuesday 00:00-24:00 Wednesday 00:00-24:00 Thursd...

Condition description:
Day and Time Restrictions specify the days and times when connection attempts are and are not allowed. These restrictions are based on the time zone where the NPS server is located.

Add... Edit... Remove

OK Cancel Apply

left click on "Constraints (tab item)"

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Mi-Token Stuff

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Mi-Token MMC sna

Console Root

Mi-Token

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Status

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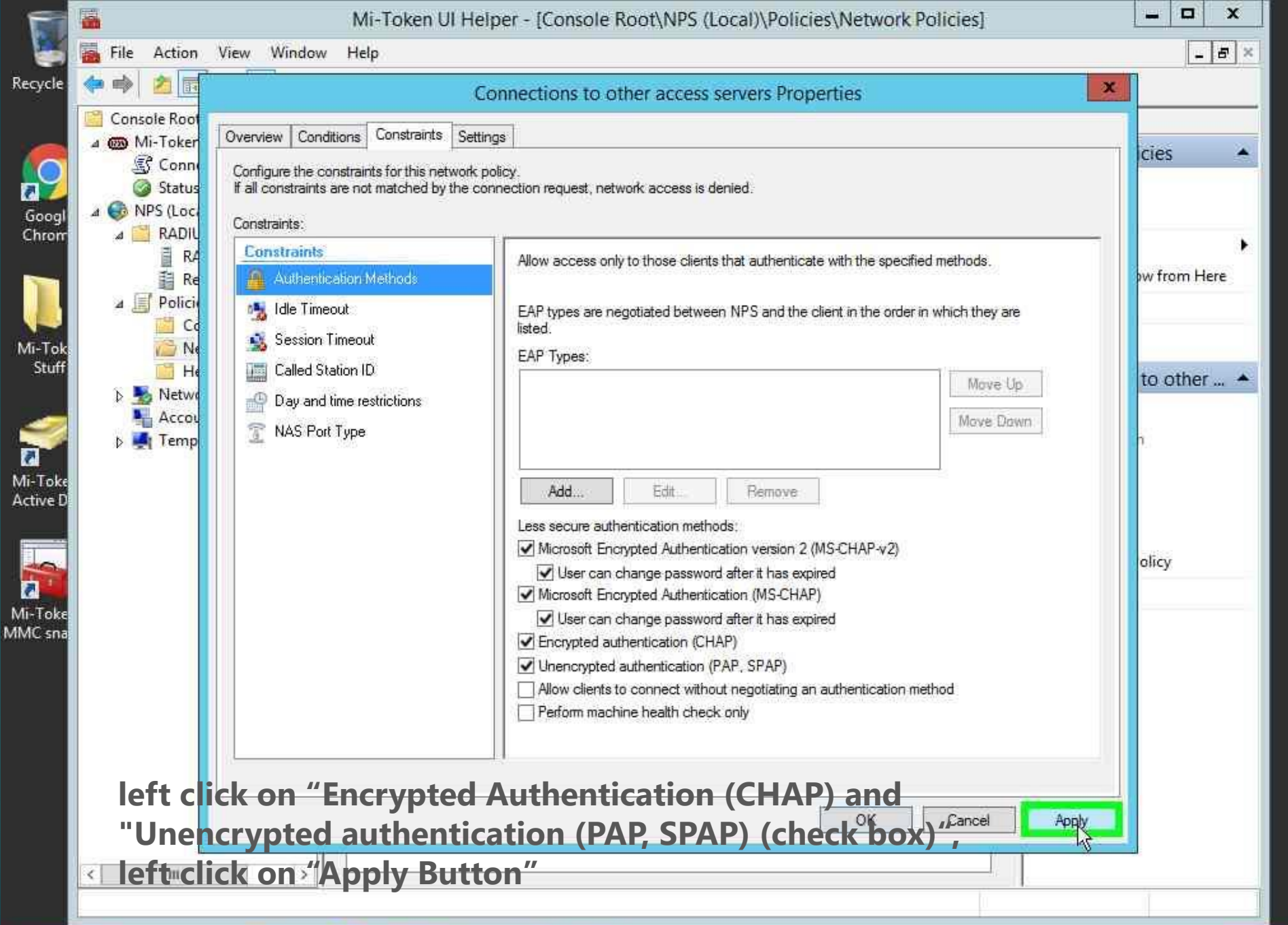
Temp

Policy

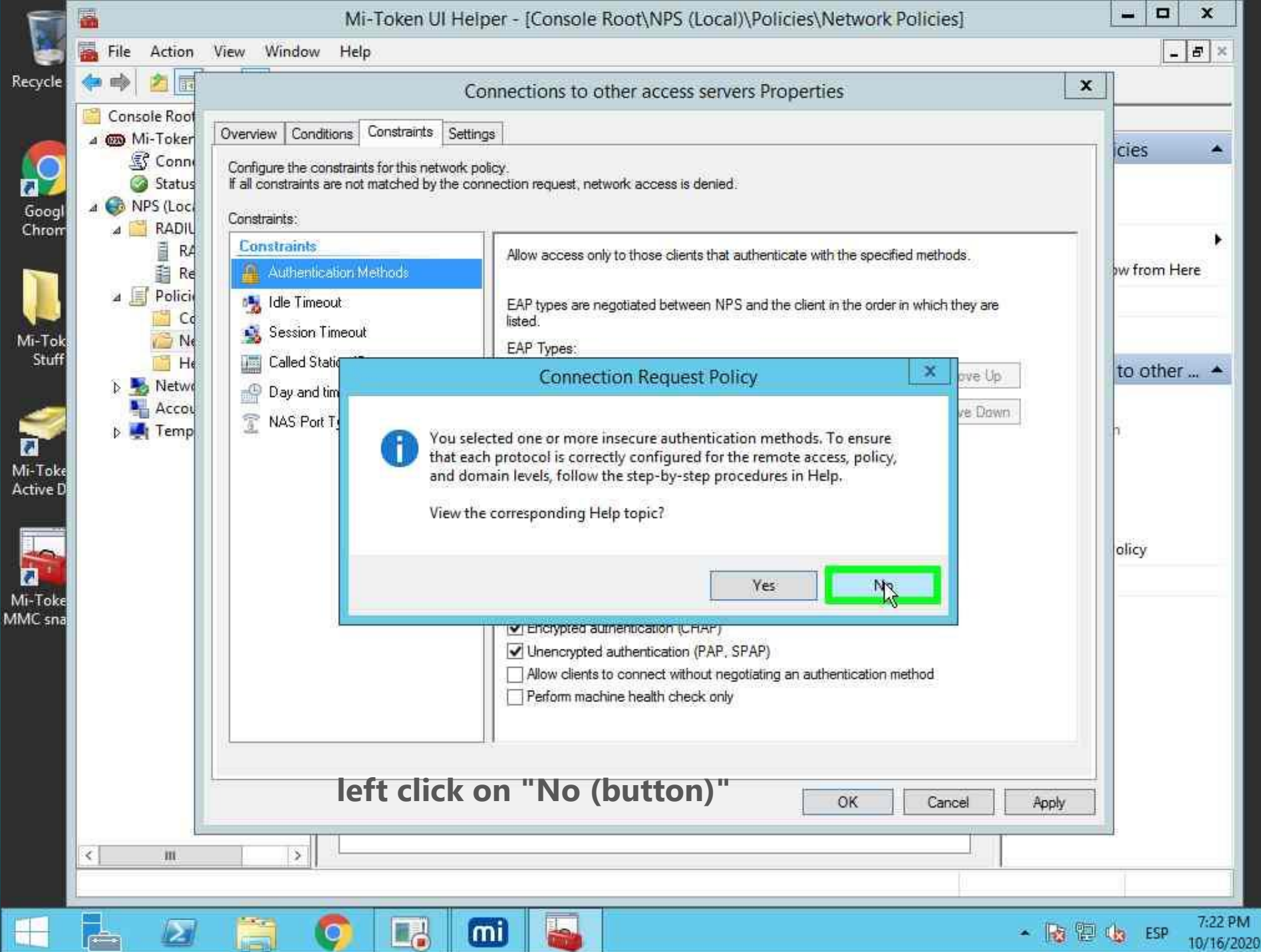
to other ...

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left click on "Encrypted Authentication (CHAP) and
"Unencrypted authentication (PAP, SPAP) (check box) ,
left click on "Apply Button"



left click on "No (button)"

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MMC sna

File Action View Window Help

Connections to other access servers Properties

Overview Conditions Constraints Settings

Configure the constraints for this network policy.
If all constraints are not matched by the connection request, network access is denied.

Constraints:

Constraints

Authentication Methods

- Idle Timeout
- Session Timeout
- Called Station ID
- Day and time restrictions
- NAS Port Type

Allow access only to those clients that authenticate with the specified methods.

EAP types are negotiated between NPS and the client in the order in which they are listed.

EAP Types:

Move Up

Move Down

Add...

Edit...

Remove

Less secure authentication methods:

- ☒ Microsoft Encrypted Authentication version 2 (MS-CHAP-v2)
 - ☒ User can change password after it has expired
- ☒ Microsoft Encrypted Authentication (MS-CHAP)
 - ☒ User can change password after it has expired
- ☒ Encrypted authentication (CHAP)
- ☒ Unencrypted authentication (PAP, SPAP)
- ☐ Allow clients to connect without negotiating an authentication method
- ☐ Perform machine health check only

left click on "OK (button)"



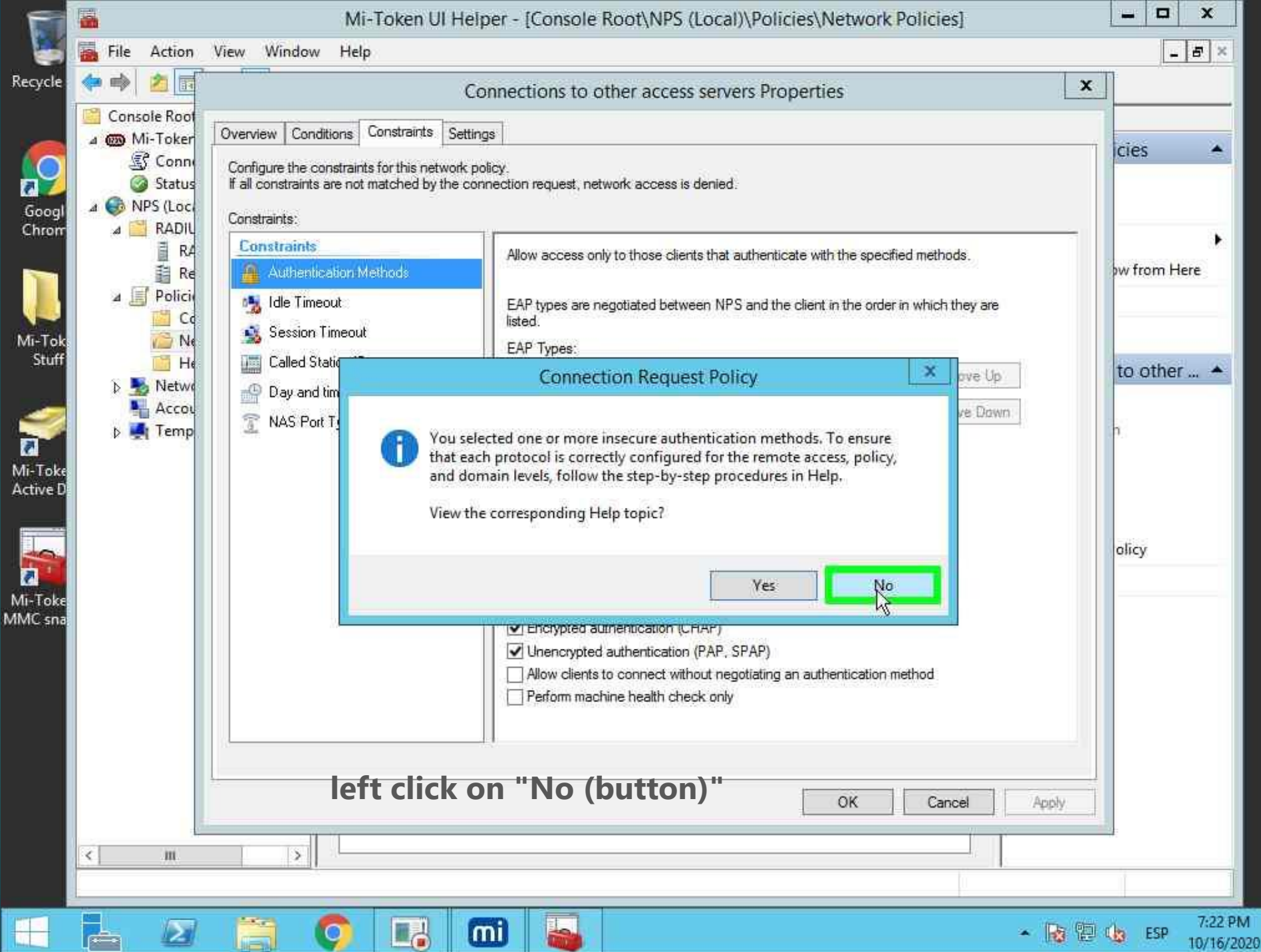
Cancel

Apply



ESP

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10/16/2020



left click on "No (button)"

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Google Chrome

Mi-Token Stuff

Mi-Token Active D

Mi-Token MMC sn

Mi-Token UI Helper - [Console Root\NPS (Local)\Policies\Network Policies]

File Action View Window Help

Console Root

- Mi-Token (Local)
 - Connection Request Po
 - Status
- NPS (Local)
 - RADIUS Clients and Ser
 - RADIUS Clients
 - Remote RADIUS Ser
 - Policies
 - Connection Reques
 - Network Policies
 - Health Policies
 - Network Access Protect
 - Accounting
 - Templates Managemer

Network policies allow you to designate who is authorized to connect to the network and the circumstances under which they can or cannot connect.

Policy Name	Status	Processing Order	Access Type
Connections to Microsoft Routing and Remote Access server	Enabled	999998	Deny Access
Connections to other access servers	Enabled	999999	Grant Acce...

Connections to other access servers

Conditions - If the following conditions are met:

Condition	Value
Day and time restrictions	Sunday 00:00-24:00 Monday 00:00-24:00 Tuesday 00:00-24:00 Wednes...

left click on "Close (button)"

Settings - Then the following settings are applied:

Setting	Value
Access Permission	Grant Access
Authentication Method	Unencrypted authentication (PAP, SPAP) OR Encryption authentica...
Update Noncompliant Clients	True
Framed-Protocol	PPP
Service-Type	Framed

Actions

Network Policies

New

Export List

View

New Window from Here

Refresh

Help

Connections to other ...

Move Up

Move Down

Disable

Delete

Rename

Duplicate Policy

Properties

Help

Windows Taskbar

7:22 PM 10/16/2020



Recycle Bin



Google
Chrome



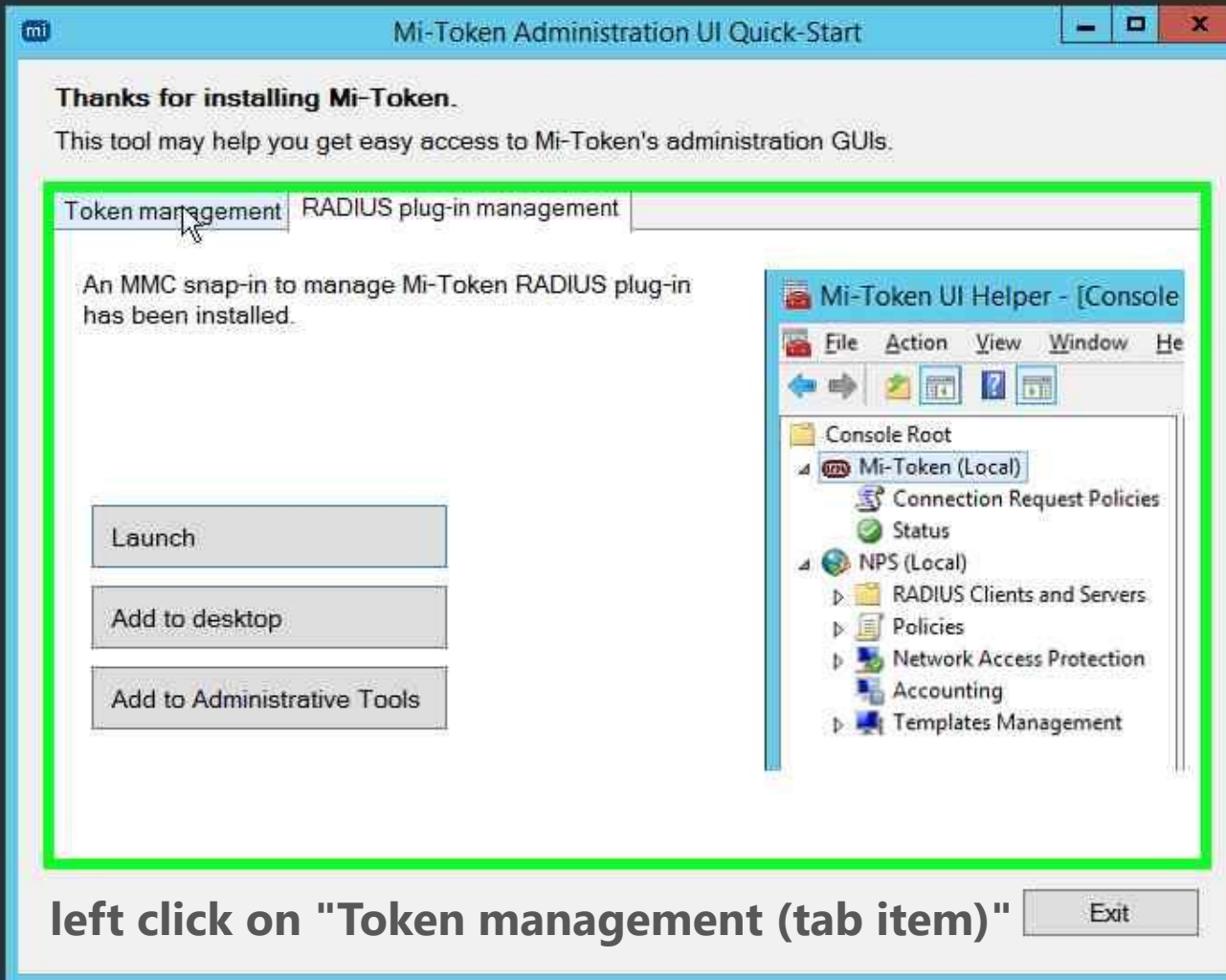
Mi-Token
Stuff



Mi-Token -
Active Dir...

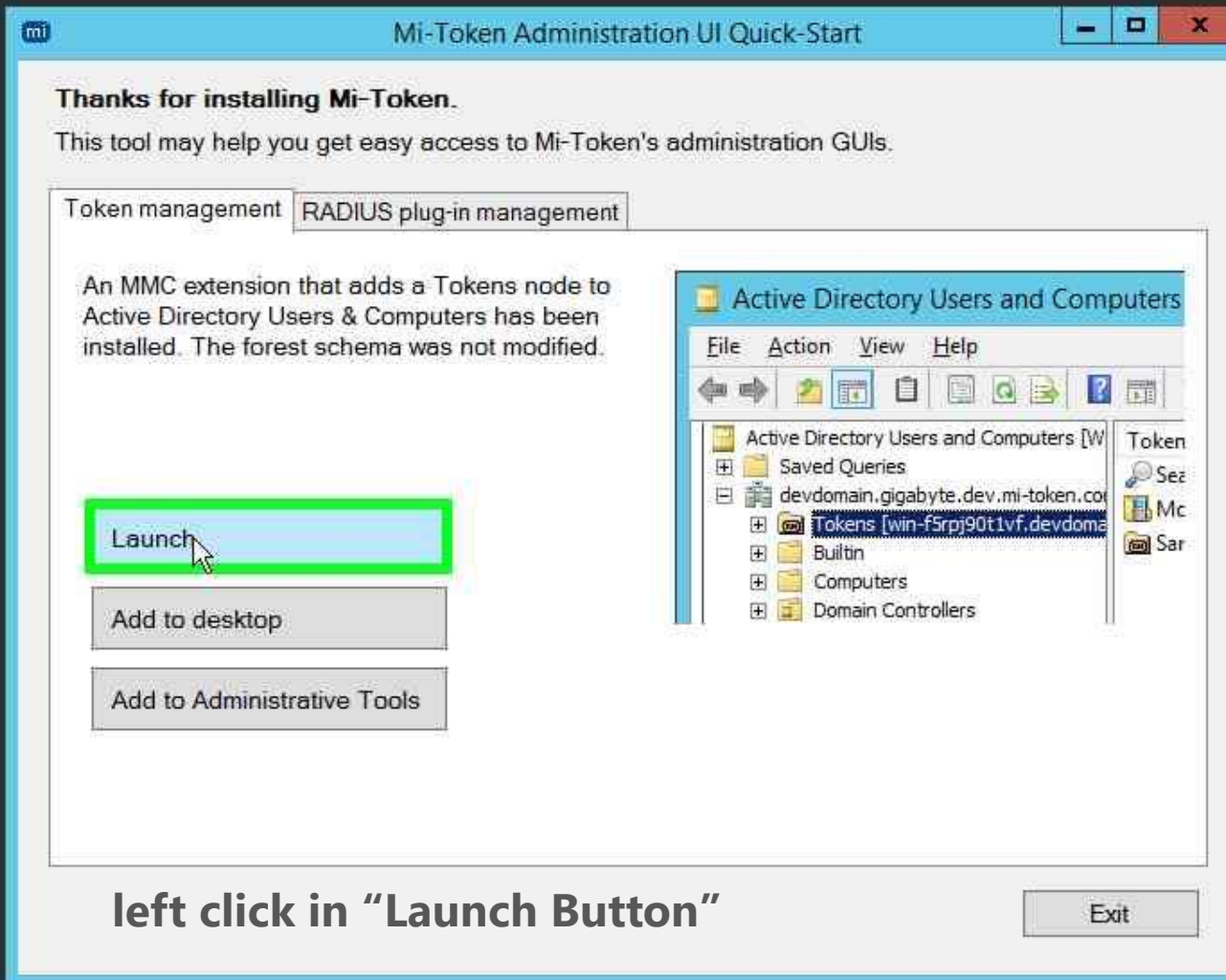


Mi-Token -
MMC snap-in



server 2012 R2





left click in "Launch Button"

server 2012 R2



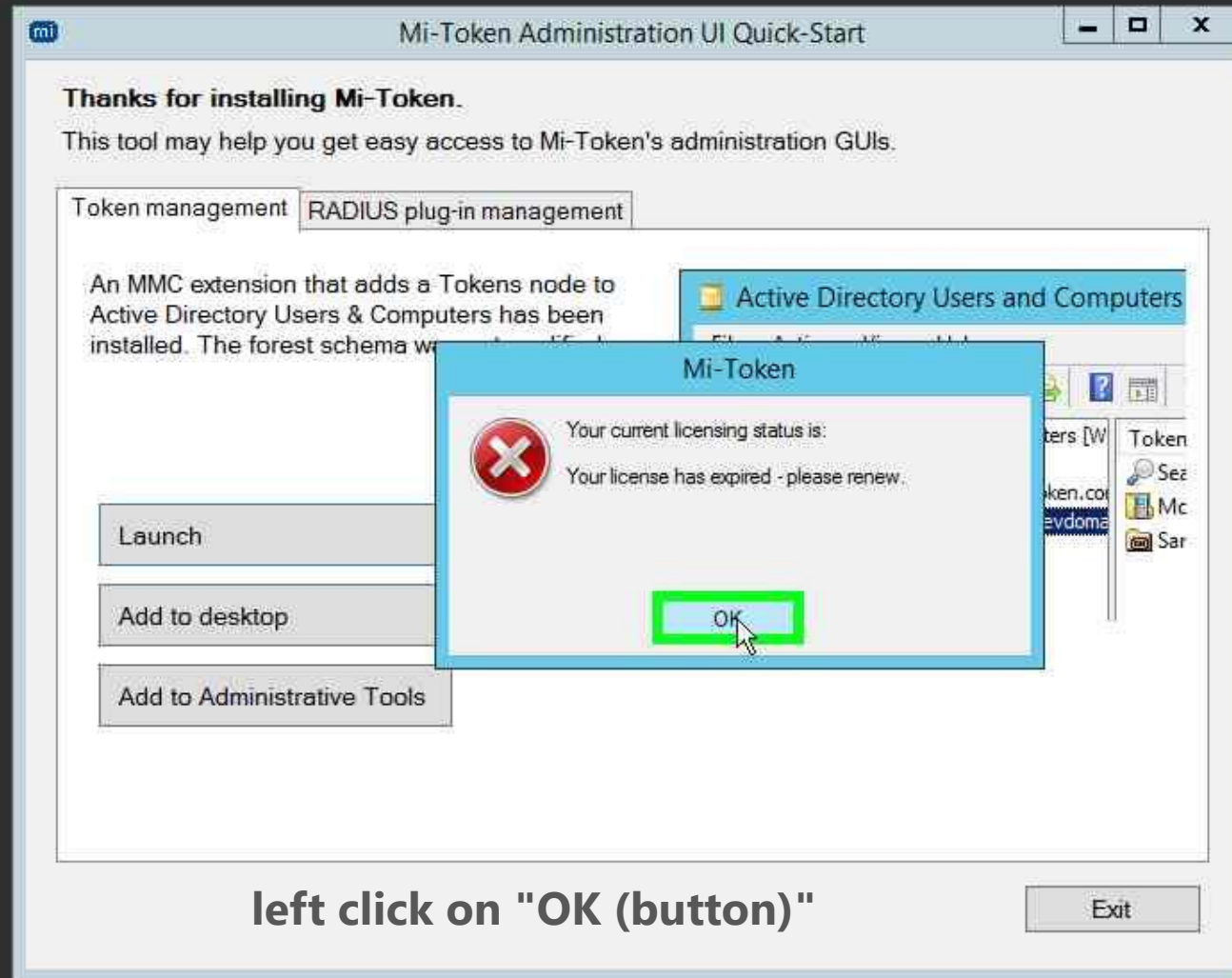
Mi-Token Stuff



Mi-Token - Active Dir...

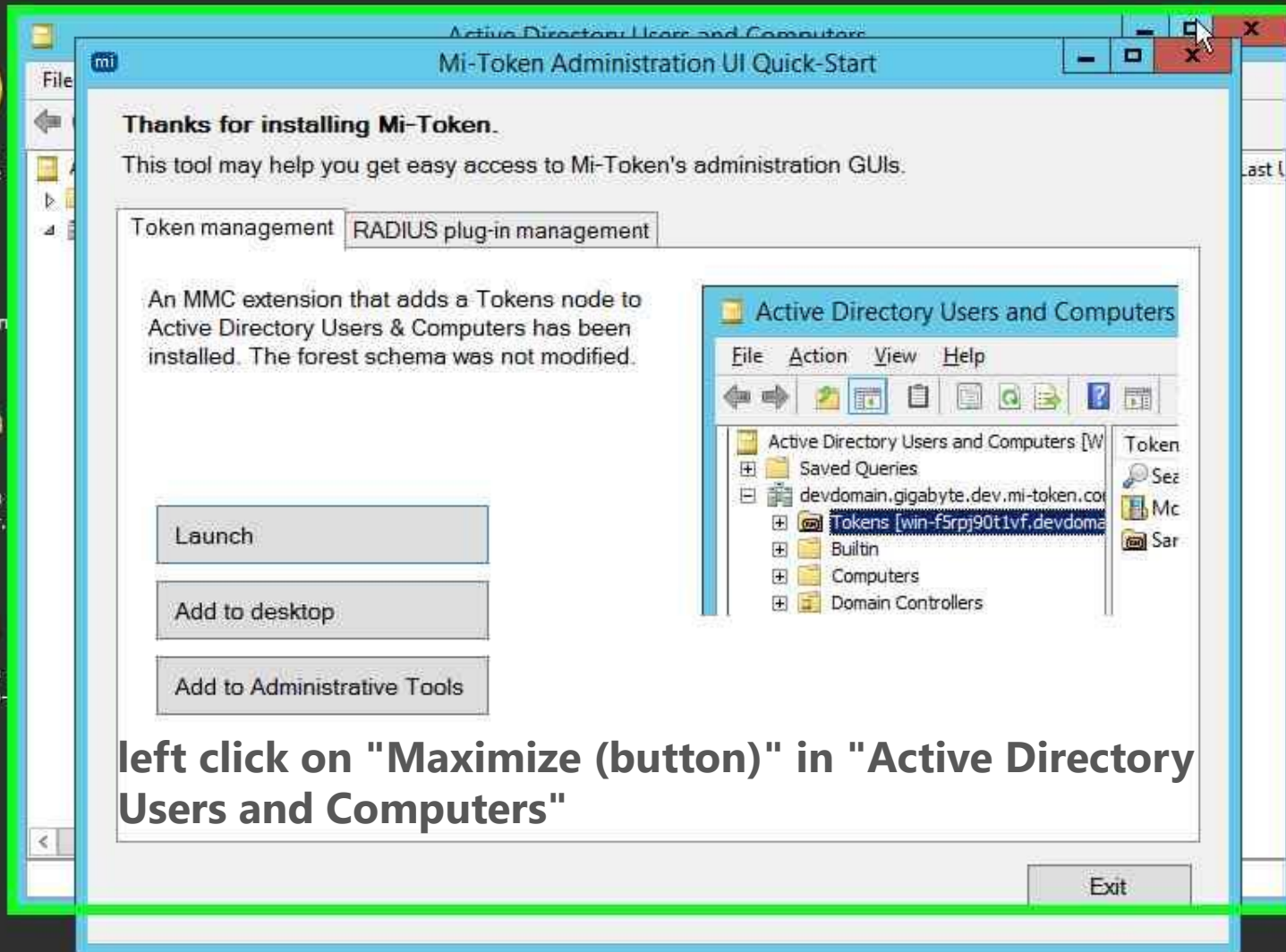


Mi-Token - MMC snap-in



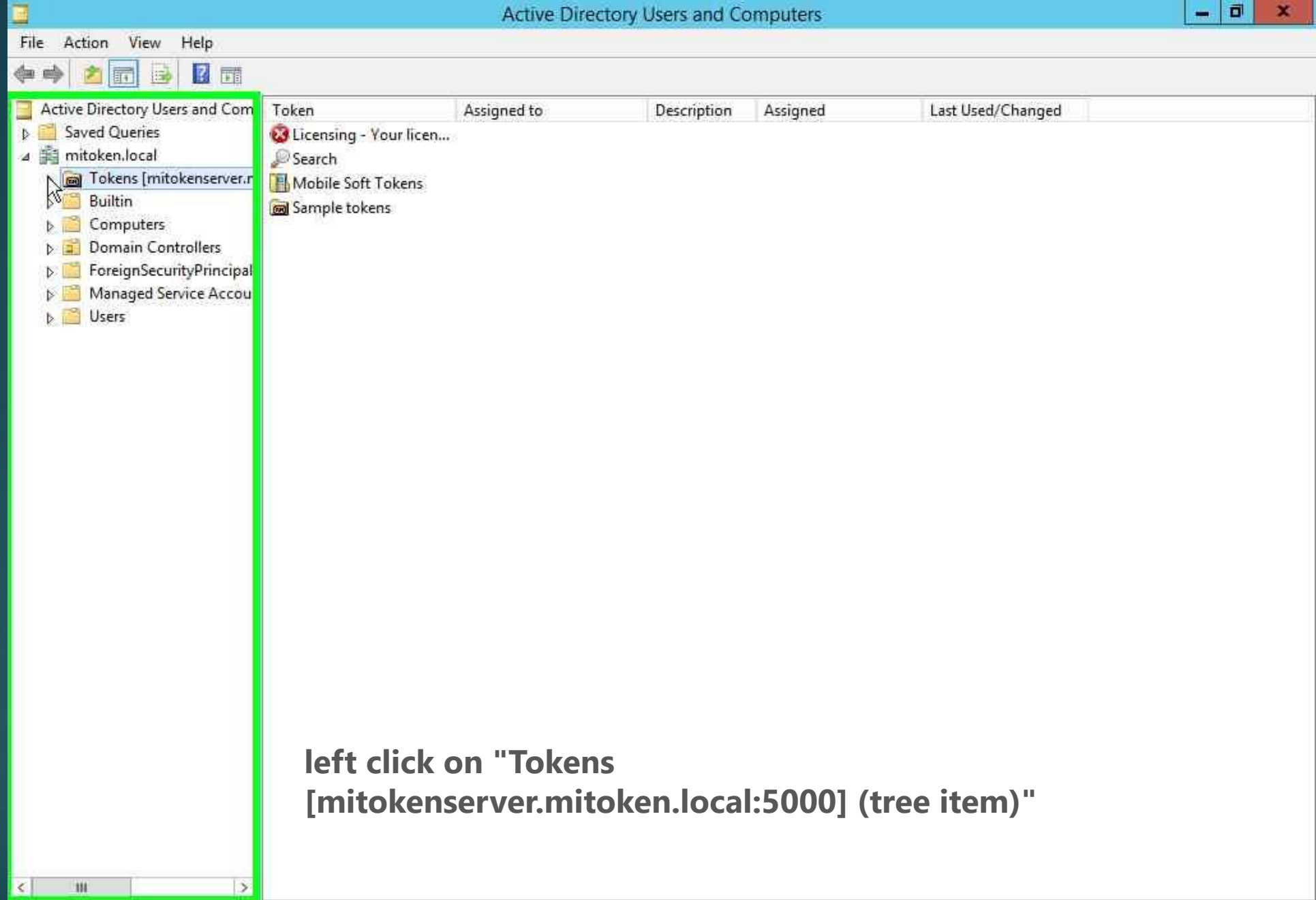
left click on "OK (button)"

server 2012 R2

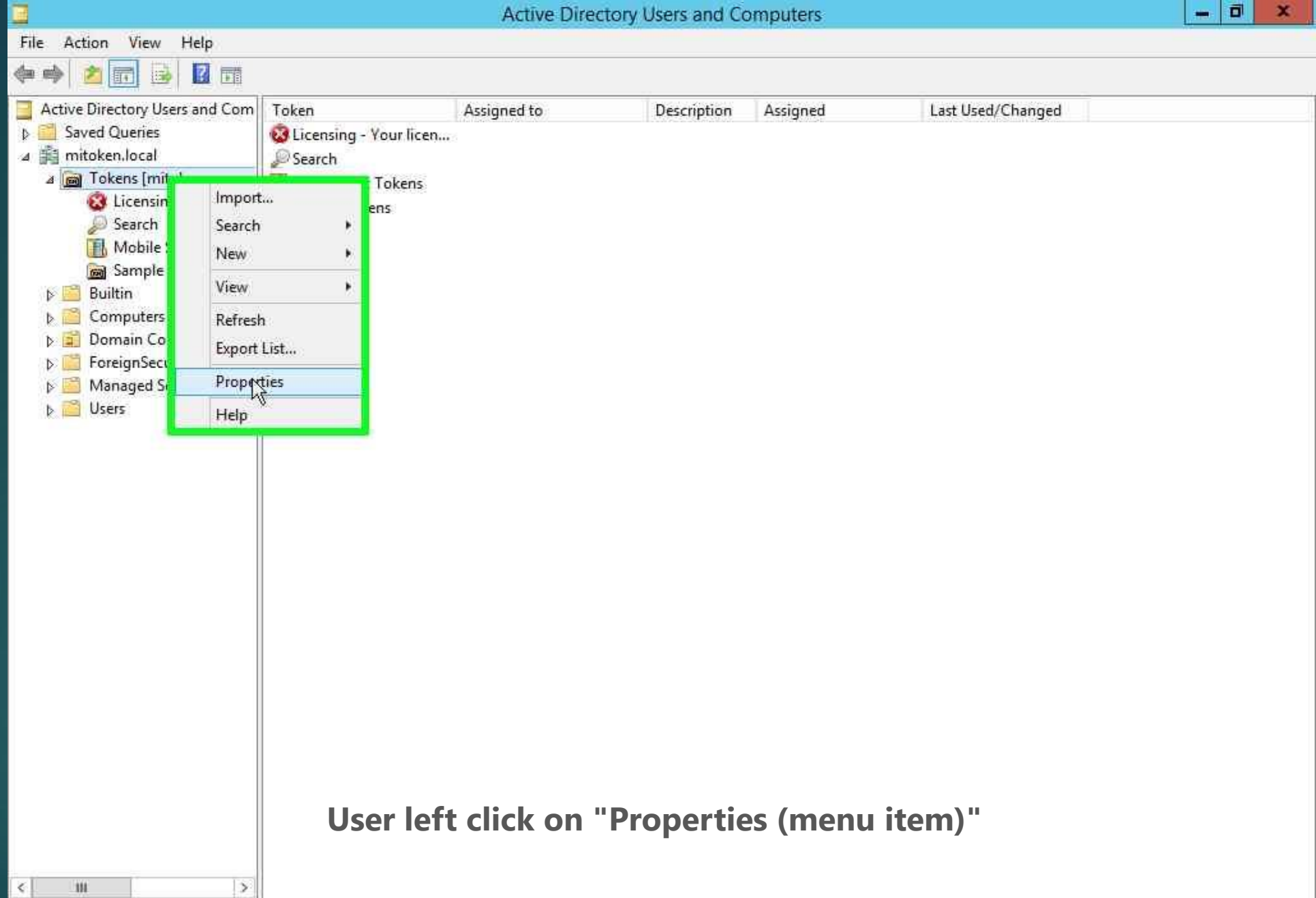


left click on "Maximize (button)" in "Active Directory Users and Computers"

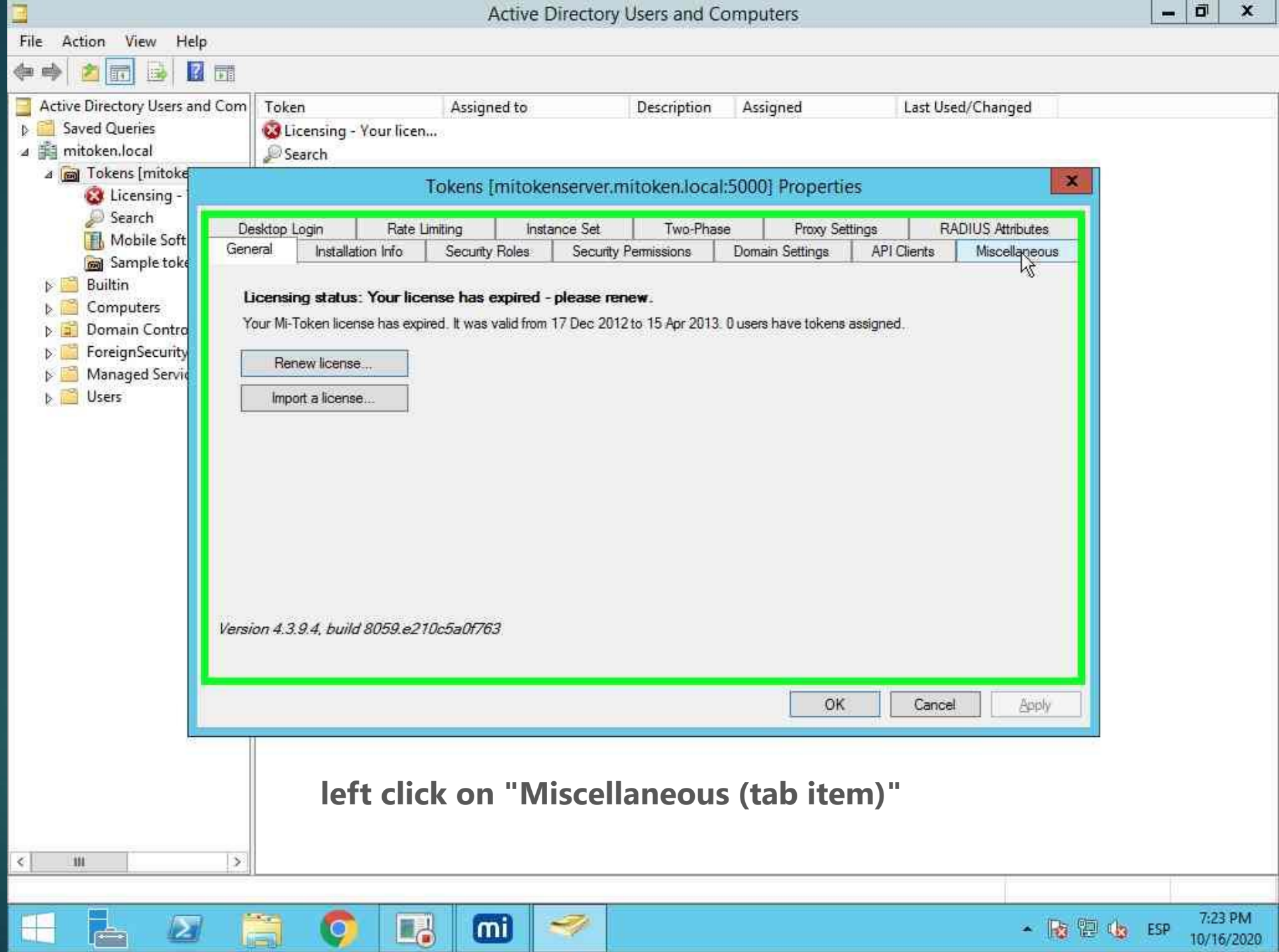
er 2012 R2

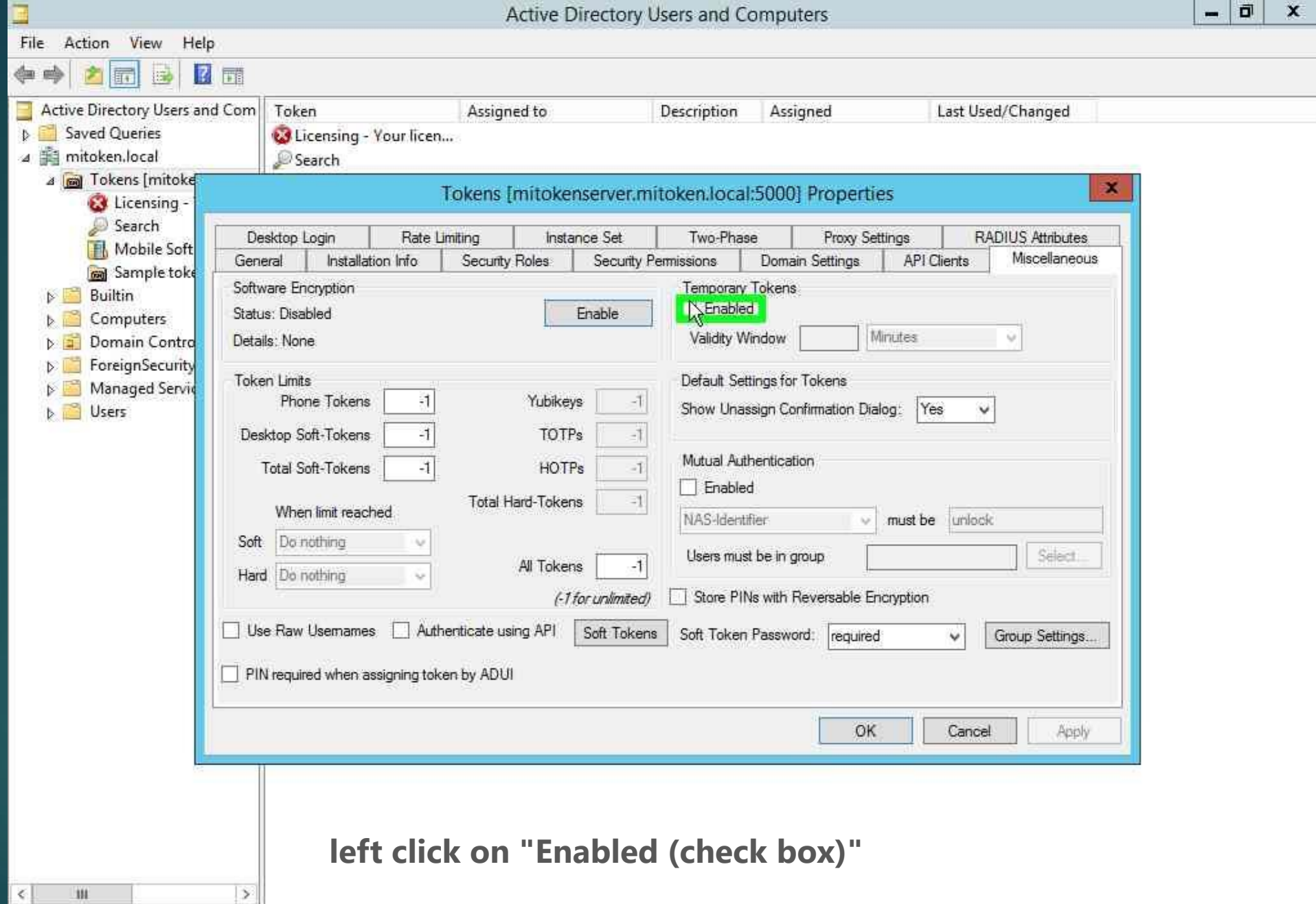


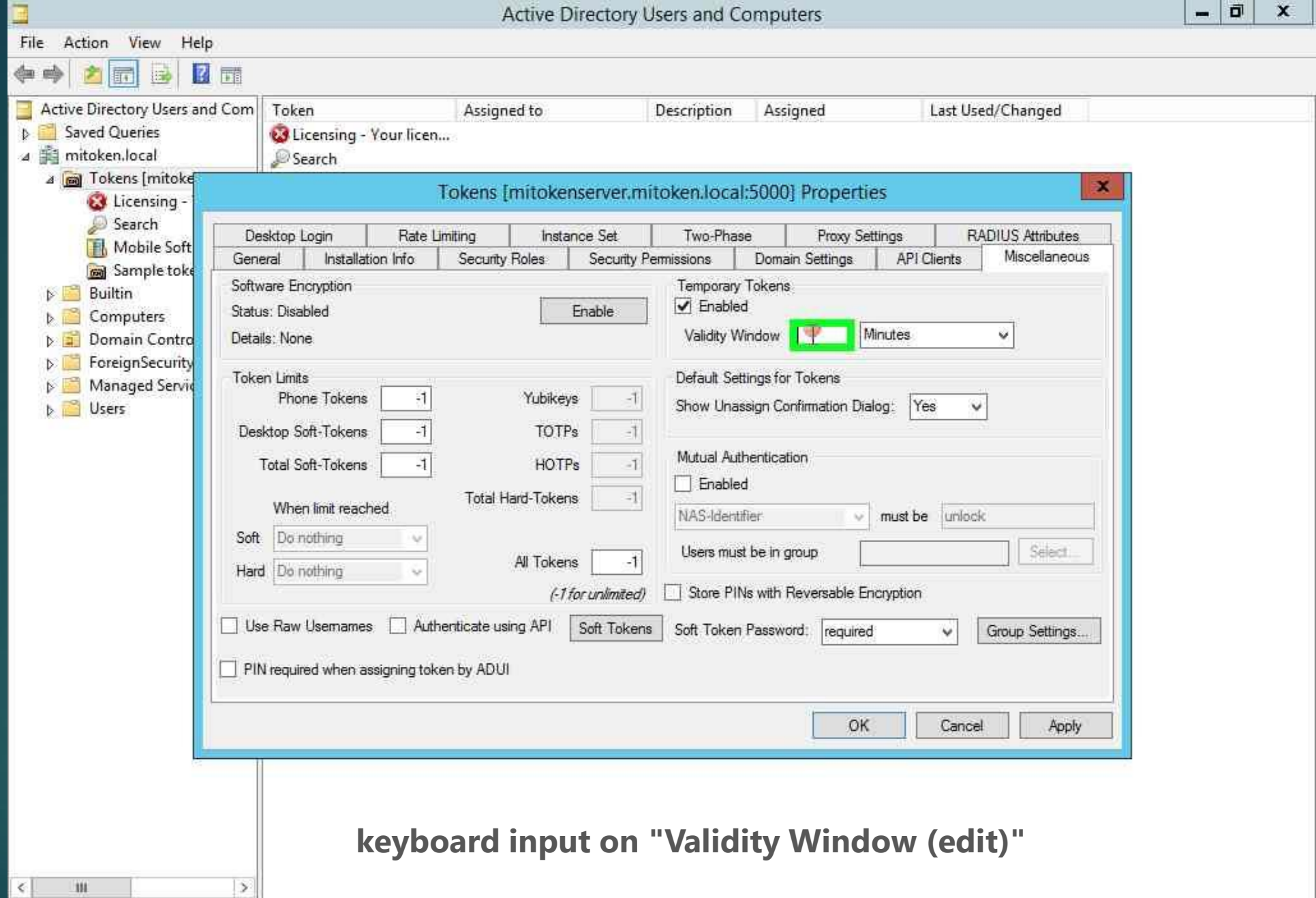
left click on "Tokens
[mitokenserver.mitoken.local:5000] (tree item)"



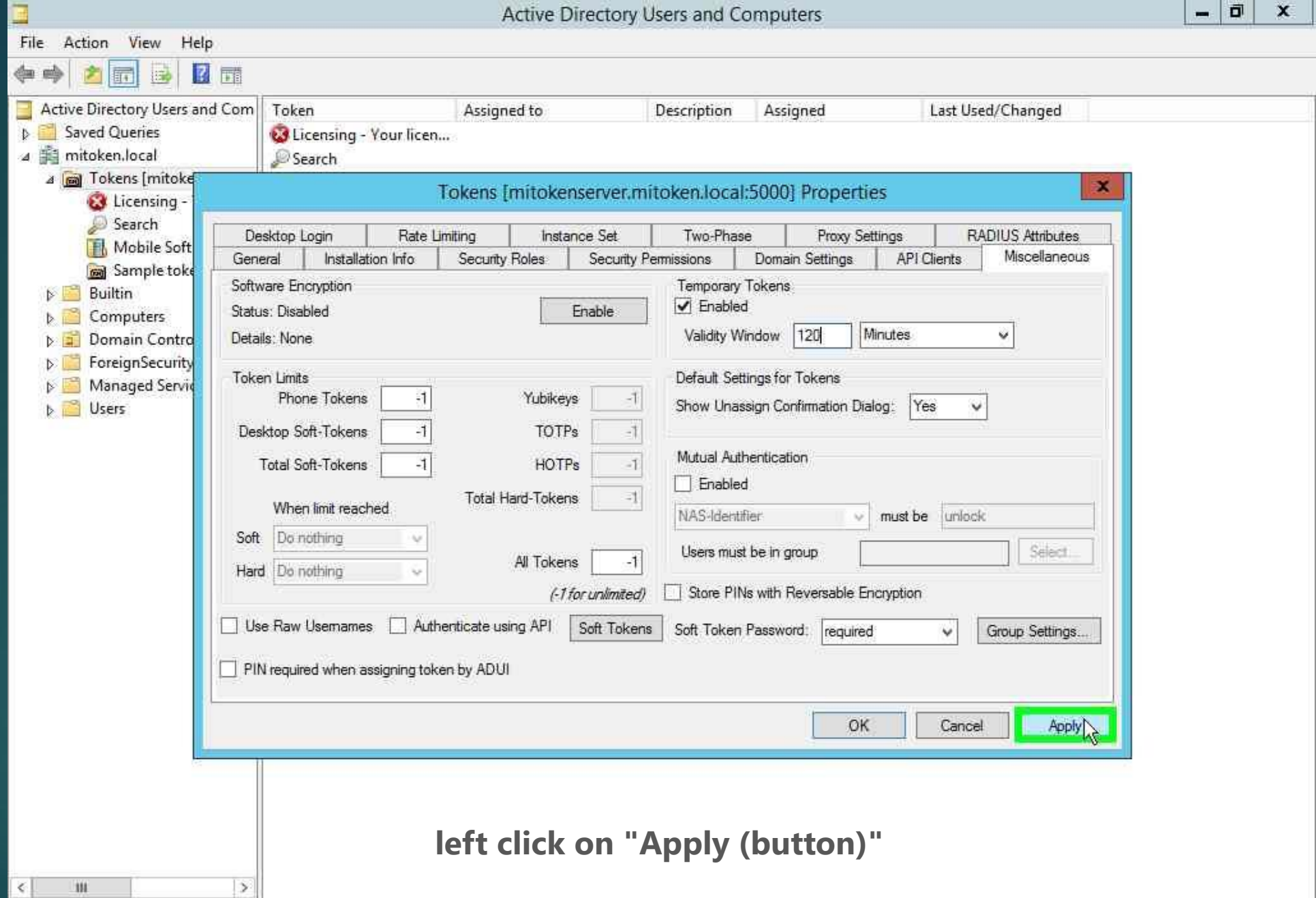
User left click on "Properties (menu item)"







keyboard input on "Validity Window (edit)"



left click on "Apply (button)"

Active Directory Users and Computers

FileActionViewHelp

Active Directory Users and Com

Saved Queries

mitoken.local

Tokens [mitoken.local:5000]

Licensing - Your licen...

Search

Token

Assigned to

Description

Assigned

Last Used/Changed

Tokens [mitokenserver.mitoken.local:5000] Properties

Desktop Login

Rate Limiting

Instance Set

Two-Phase

Proxy Settings

RADIUS Attributes

General

Installation Info

Security Roles

Security Permissions

Domain Settings

API Clients

Miscellaneous

Software Encryption

Status: Disabled

Details: None

Enable

Token Limits

Phone Tokens

Desktop Soft-Tokens

Total Soft-Tokens

When limit reached

Soft

Hard

Yubikeys

TOTPs

HOTPs

Total Hard-Tokens

All Tokens

Temporary Tokens

Validity Window

Default Settings for Tokens

Show Unassign Confirmation Dialog

Mutual Authentication

NAS-Identifier

Users must be in group

Store PINs with Reversible Encryption

Soft Token Password

Group Settings...

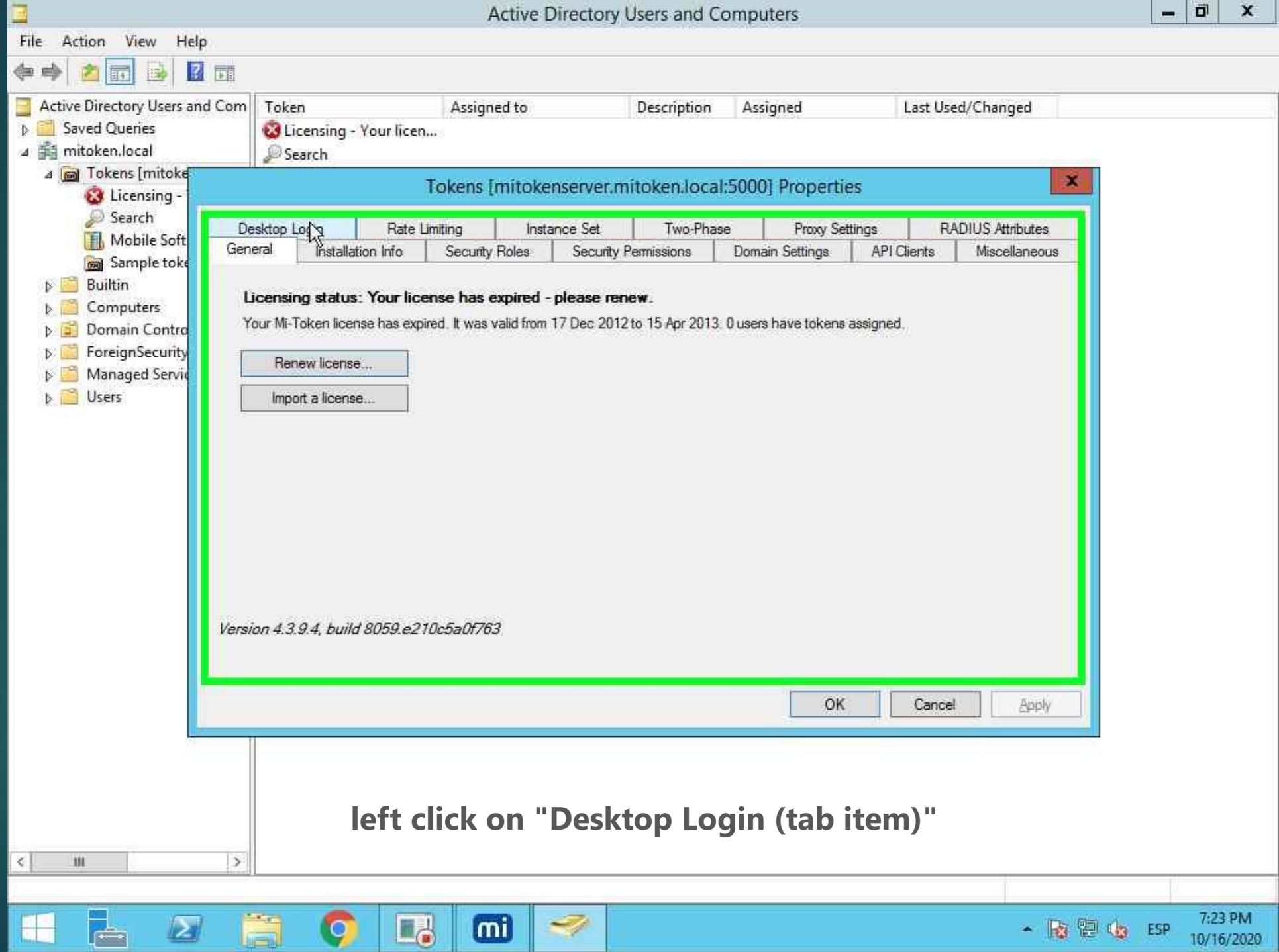
OK

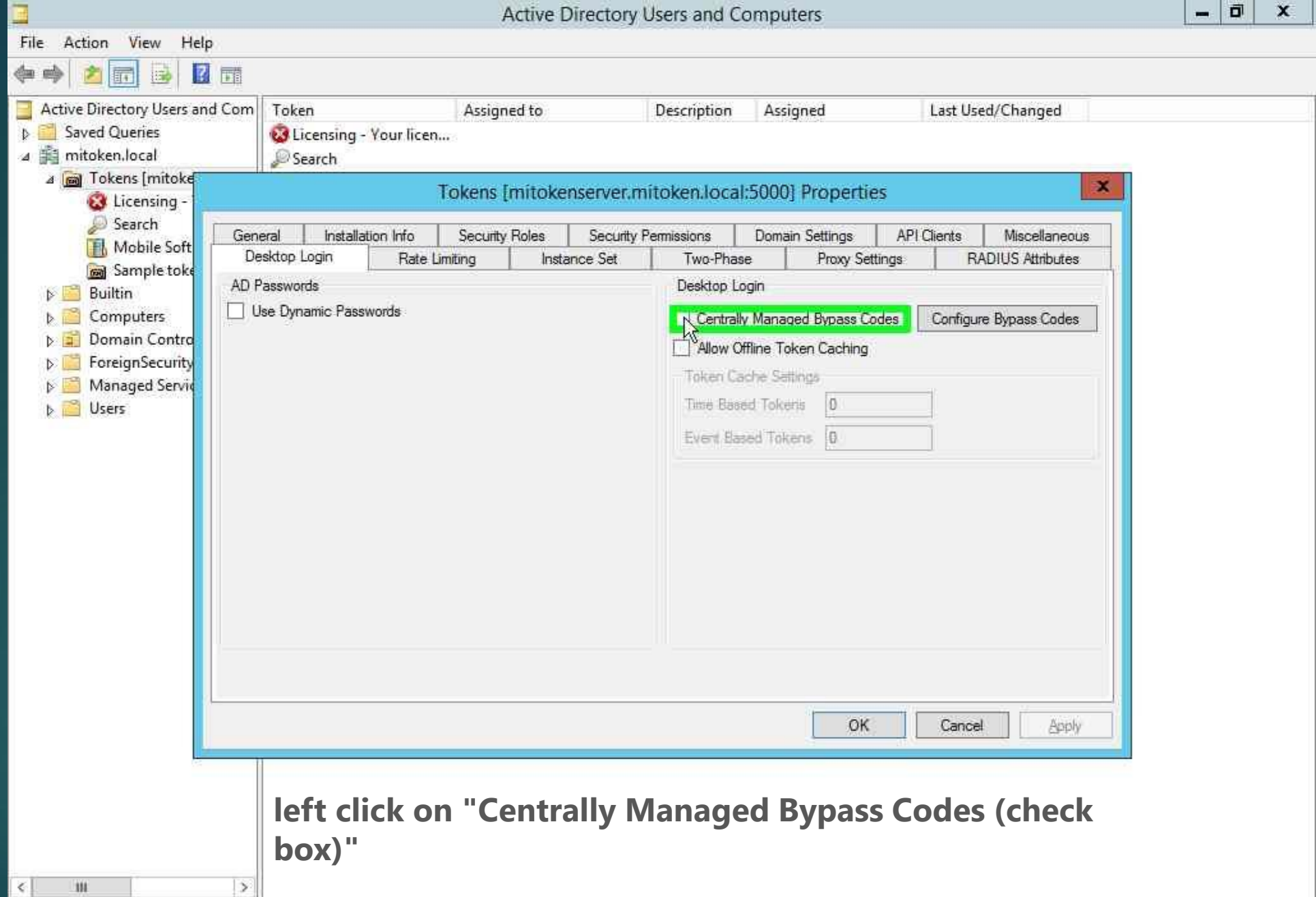
Cancel

Apply

7:23 PM

10/16/2020





Active Directory Users and Computers

File Action View Help

Active Directory Users and Com

Saved Queries

mitoken.local

Tokens [mitoken.local:5000]

Licensing - Your licen...

Search

Tokens [mitokenserver.mitoken.local:5000] Properties

General Installation Info Security Roles Security Permissions Domain Settings API Clients Miscellaneous

Desktop Login Rate Limiting Instance Set Two-Phase Proxy Settings RADIUS Attributes

AD Passwords

☐ Use Dynamic Passwords

Desktop Login

☒ Centrally Managed Bypass Codes [Configure Bypass Codes](#)

☐ Allow Offline Token Caching

Token Cache Settings

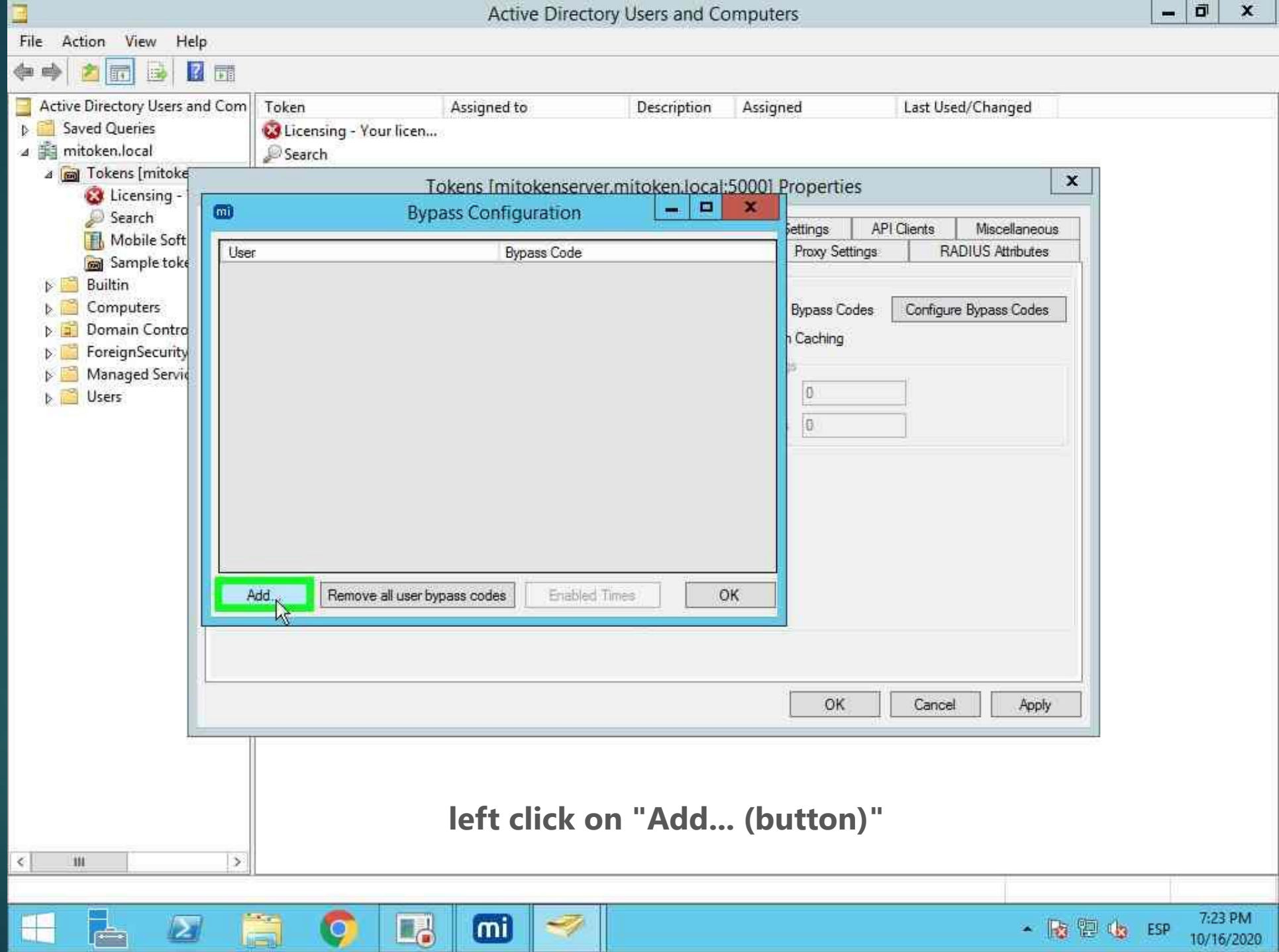
Time Based Tokens 0

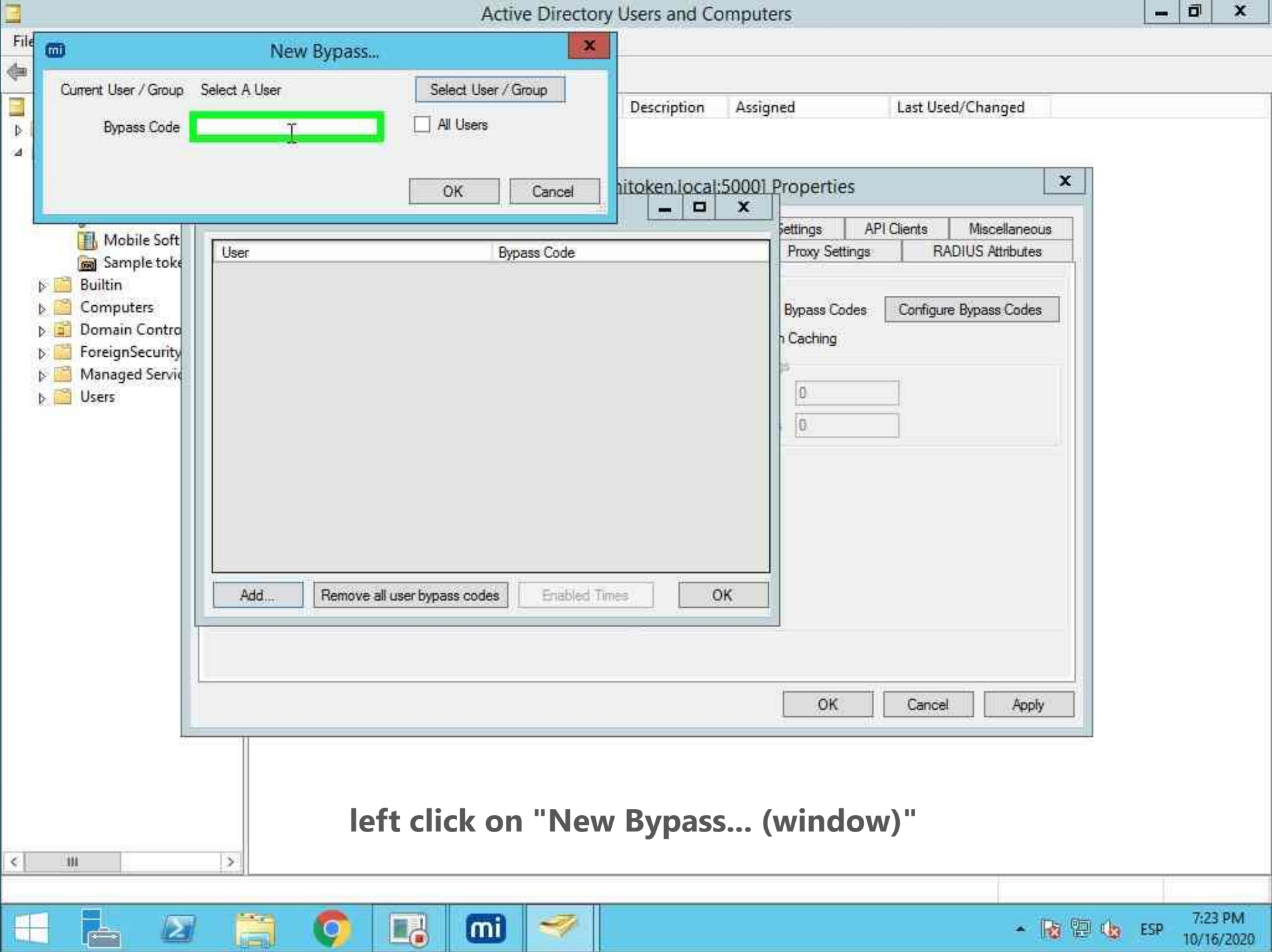
Event Based Tokens 0

OK Cancel Apply

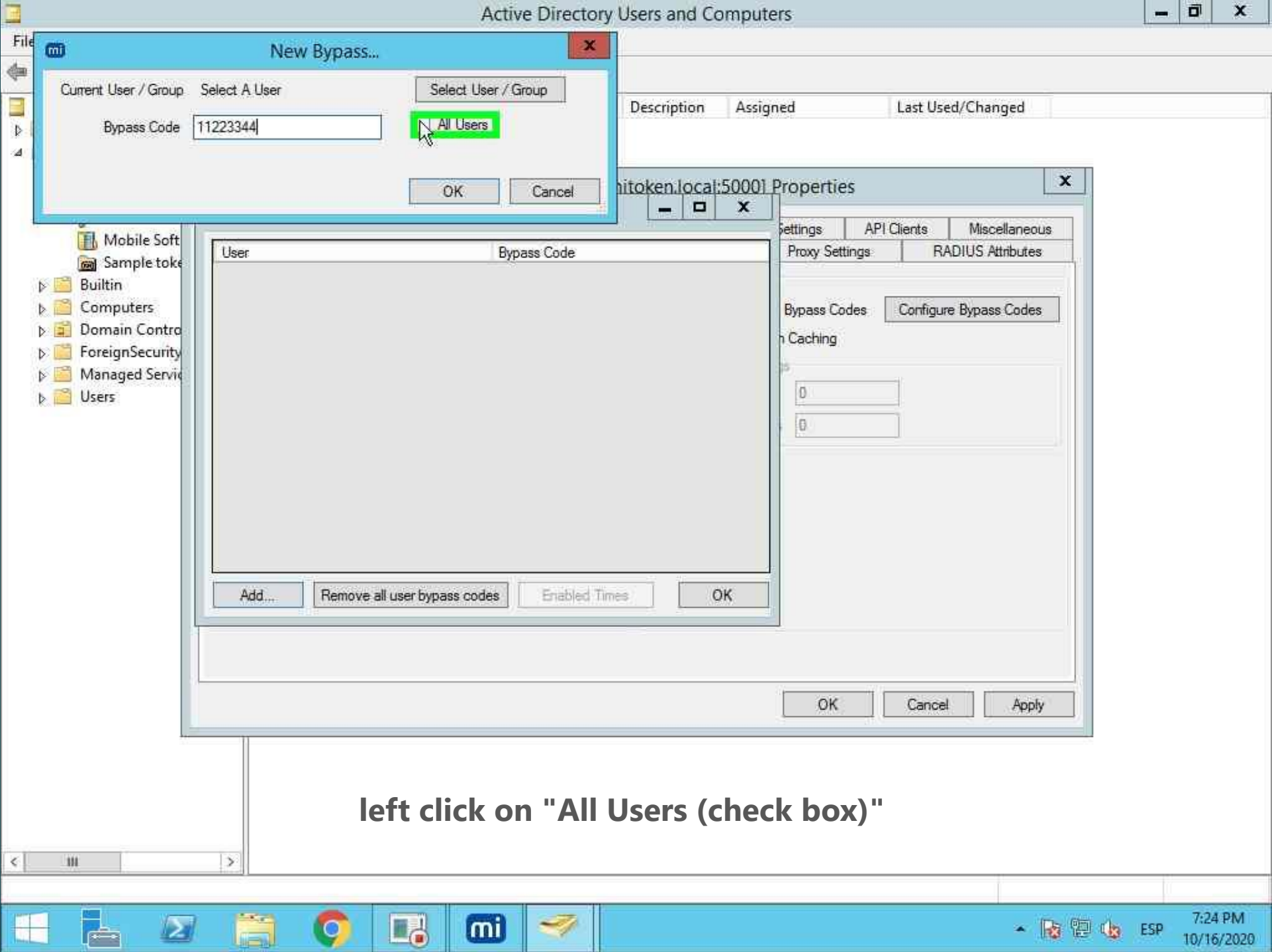
left click on "Configure Bypass Codes (button)"

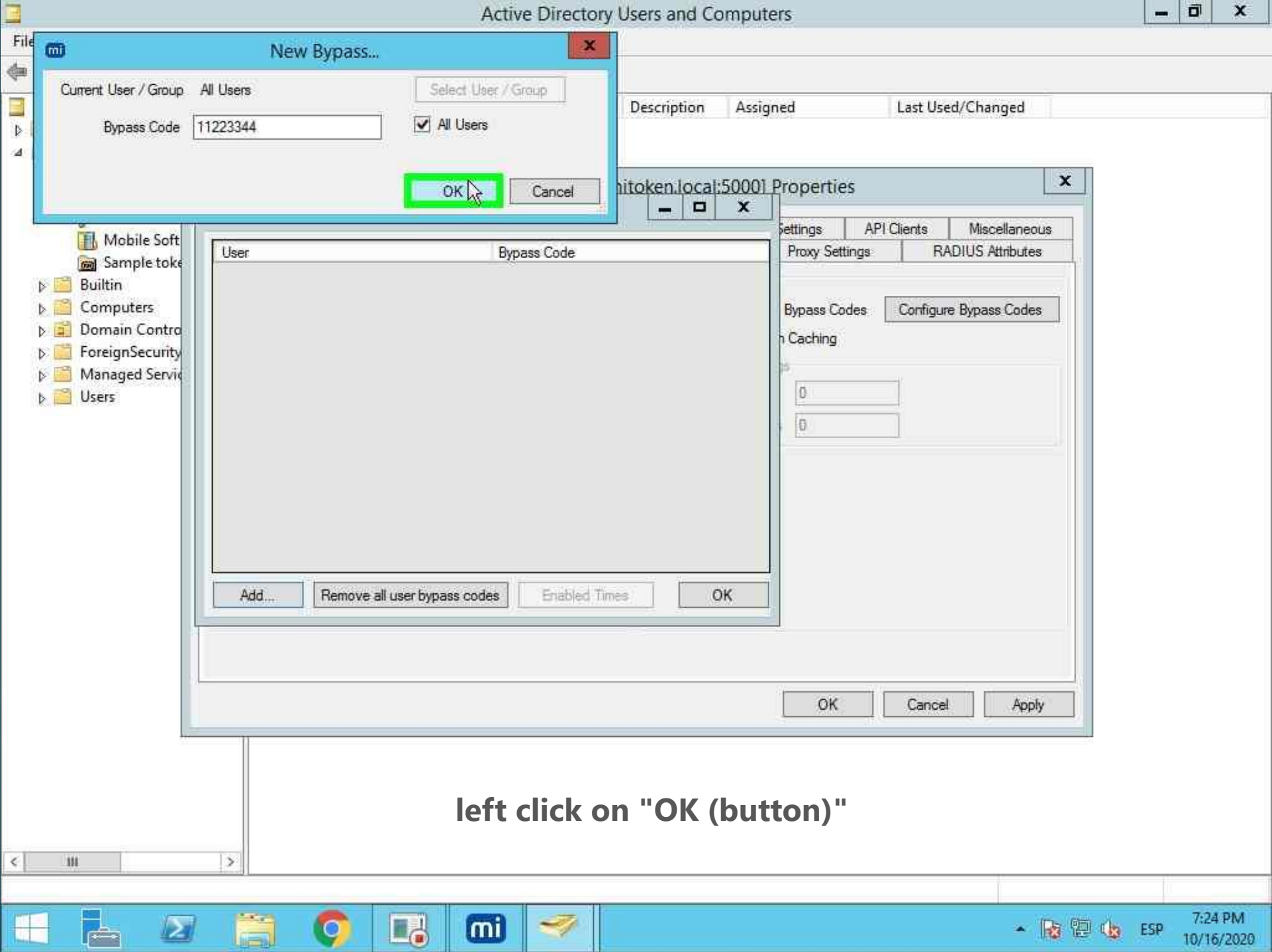
7:23 PM 10/16/2020

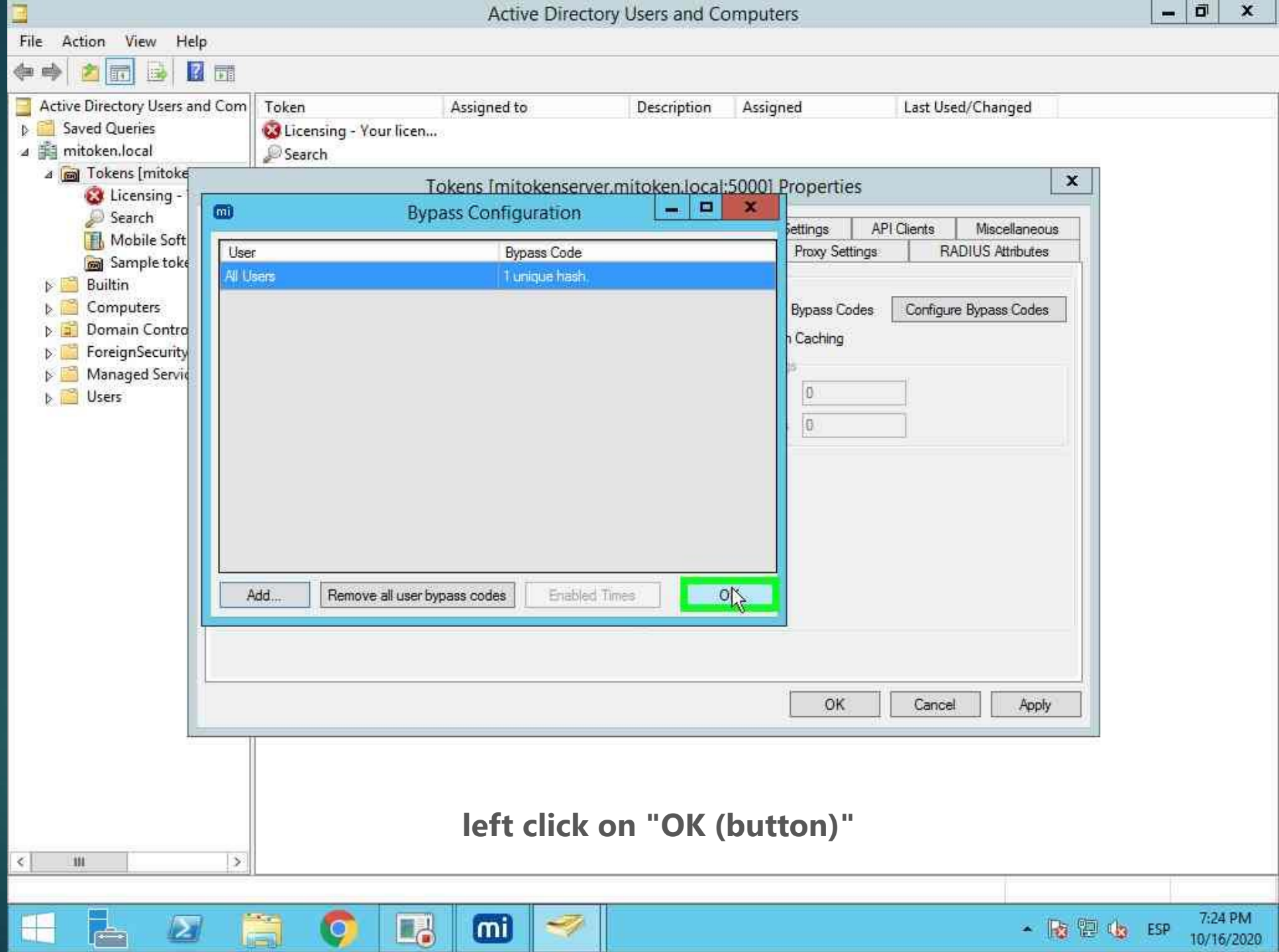


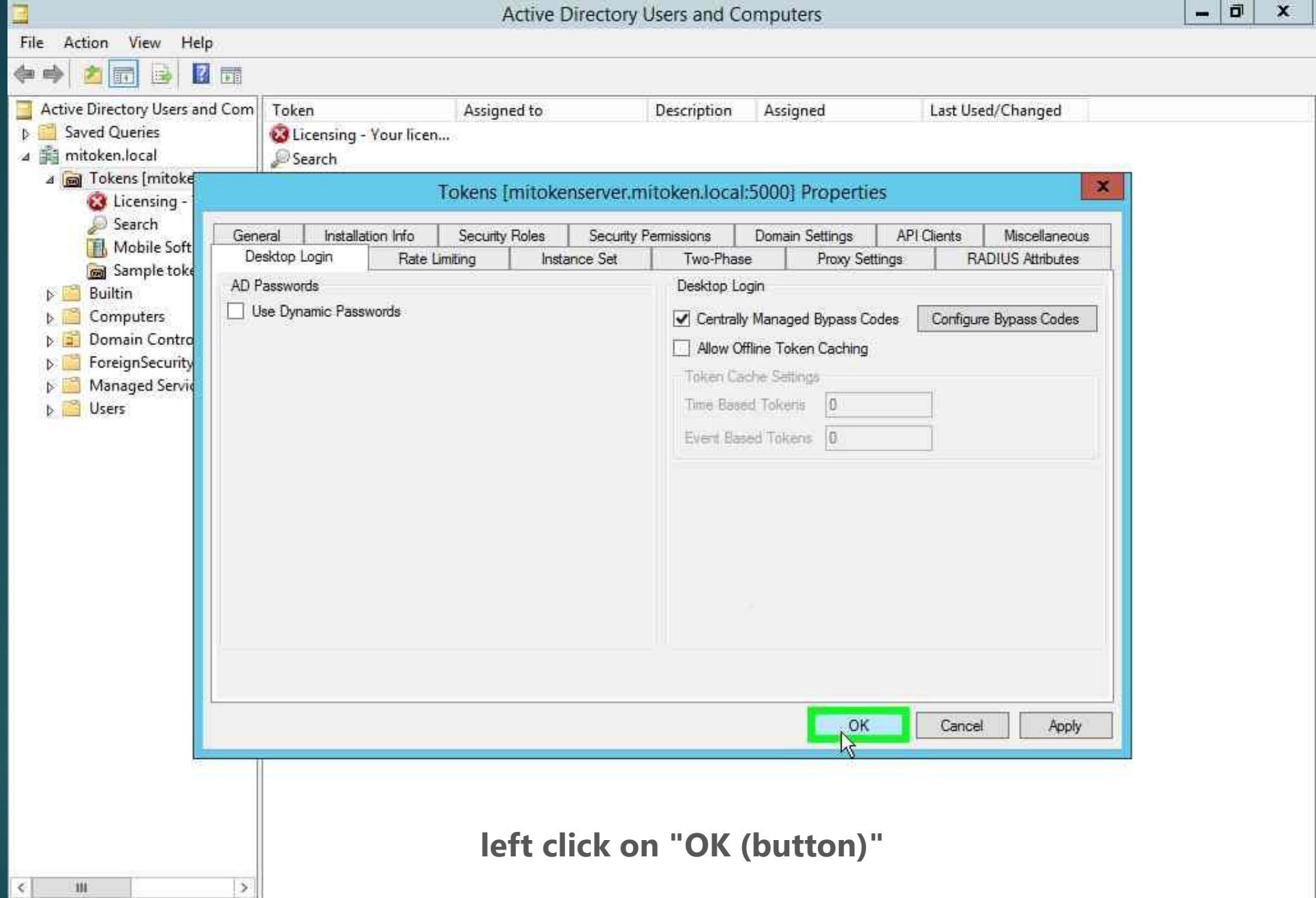


left click on "New Bypass... (window)"

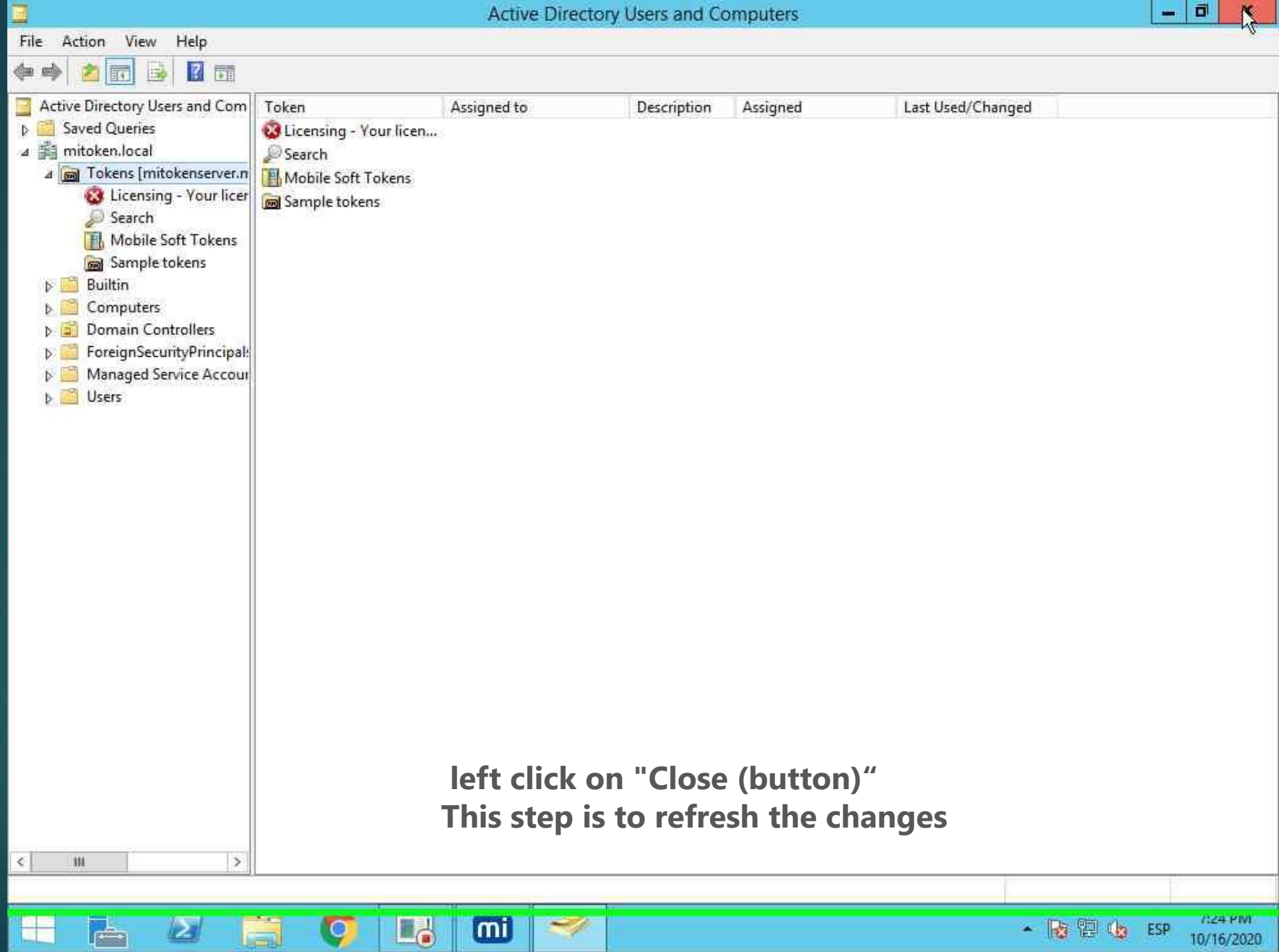








left click on "OK (button)"



left click on "Close (button)"
This step is to refresh the changes



Recycle Bin



Google
Chrome



Mi-Token
Stuff



Mi-Token -
Active Dir...



Mi-Token -
MMC snap-in

**left double click on "Mi-Token - Active Directory Users
& Computers (list item)"**

 Windows Server 2012 R2



ESP

7:24 PM
10/16/2020



Recycle Bin



Google
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Mi-Token
Stuff



Mi-Token -
Active Dir...



Mi-Token -
MMC snap-in



 Windows Server 2012 R2

left click on "OK (button)"



Active Directory Users and Computers

File Action View Help

Active Directory Users and Computers

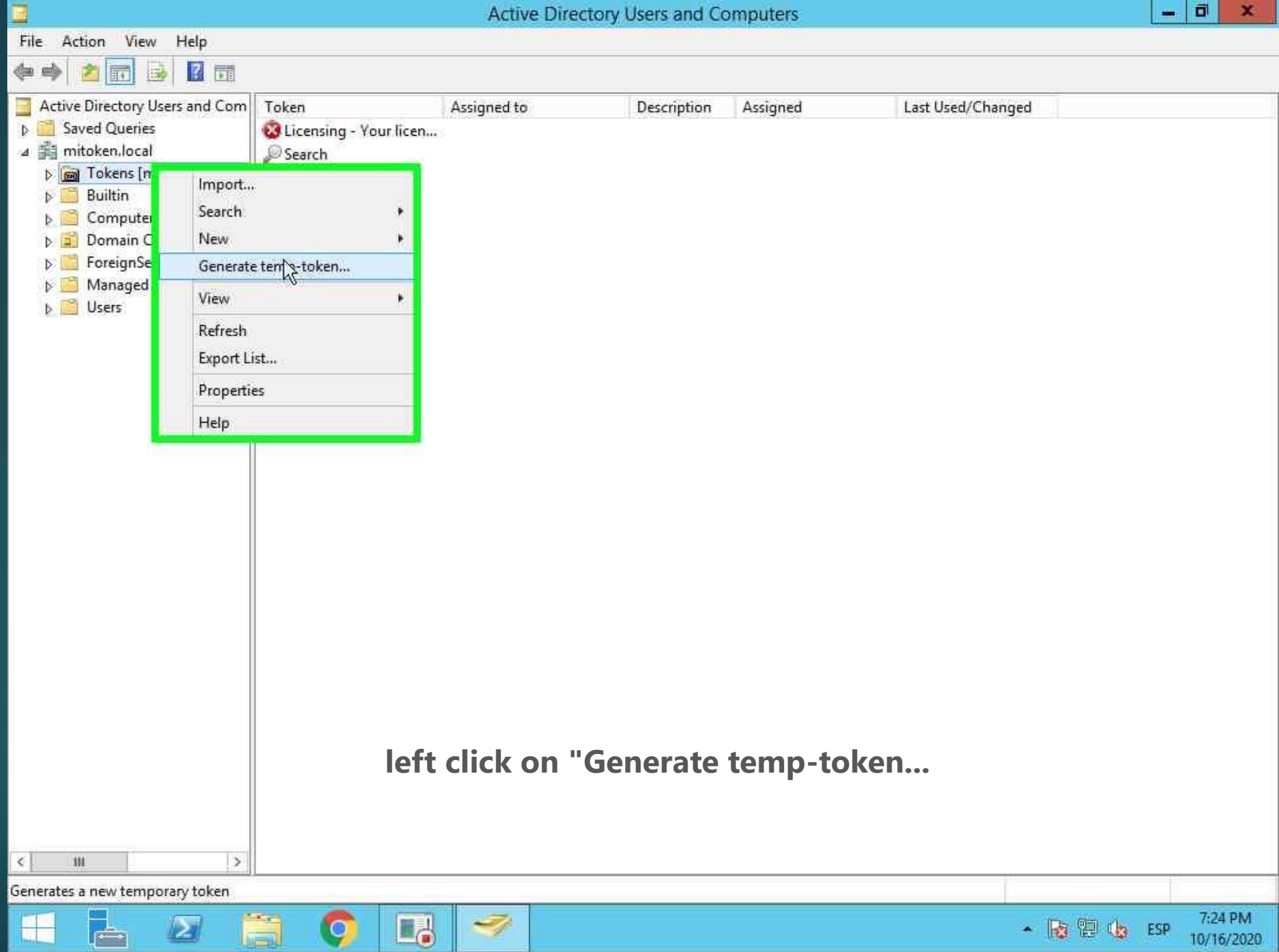
- Saved Queries
- mitoken.local
 - Tokens [mitokenserver.mitoken.local:5000]
 - Builtin
 - Computers
 - Domain Controllers
 - ForeignSecurityPrincipals
 - Managed Service Accounts
 - Users

Token	Assigned to	Description	Assigned	Last Used/Changed
Licensing - Your license...				
Search				
Mobile Soft Tokens				
Sample tokens				

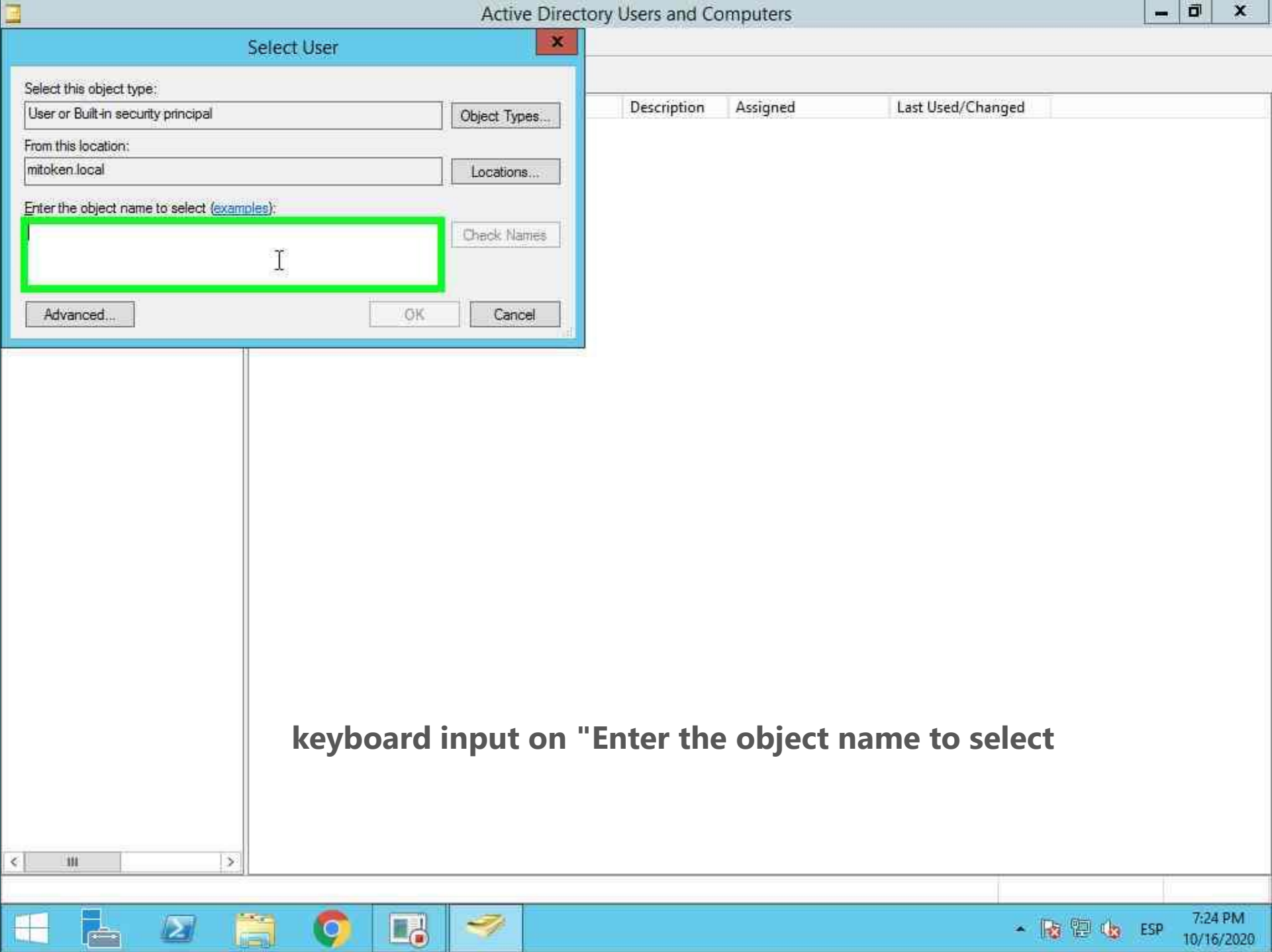
Expand: Completed successfully.

right click on "Tokens [mitokenserver.mitoken.local:5000] (tree item)"

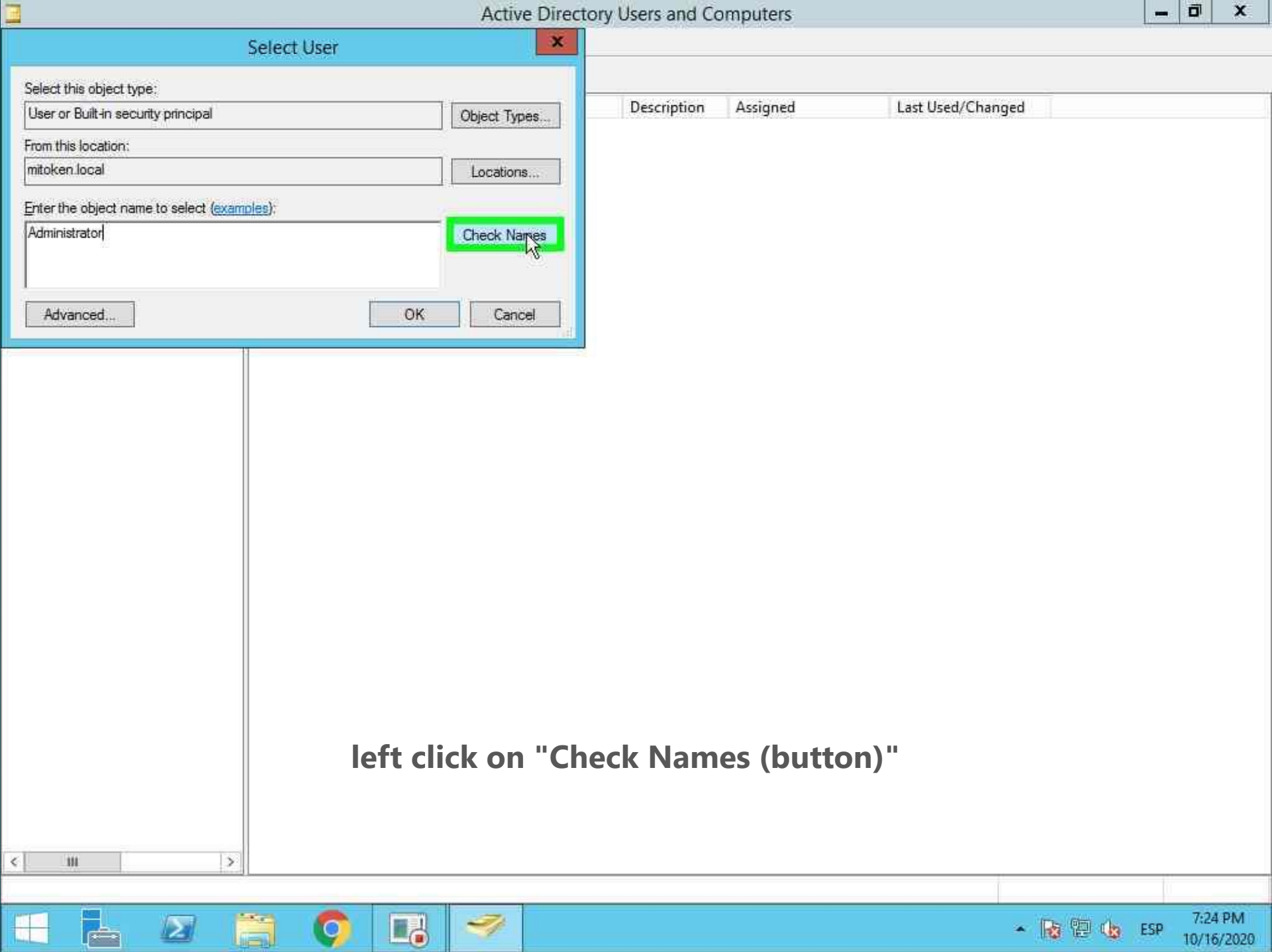
7:24 PM 10/16/2020



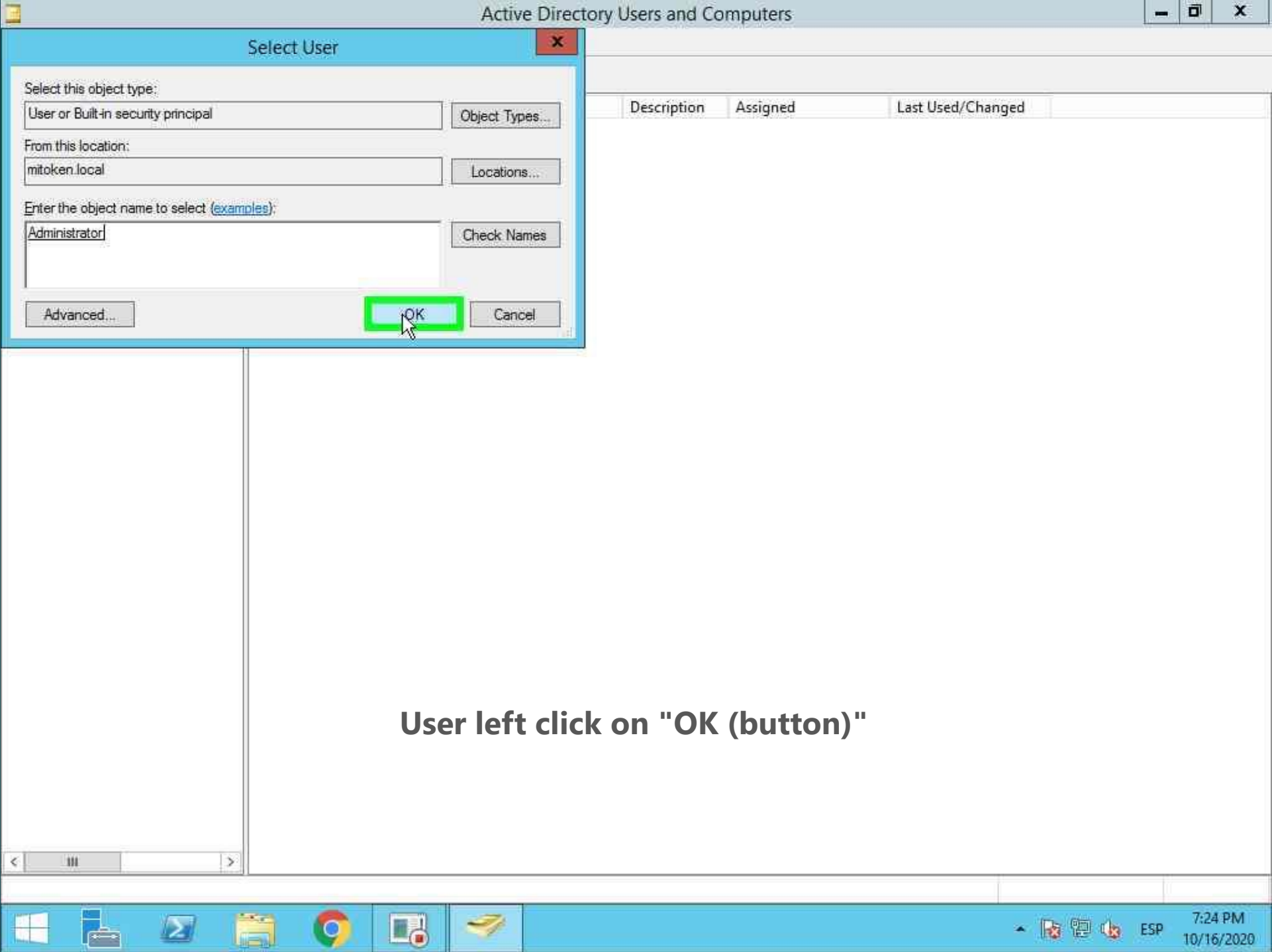
left click on "Generate temp-token..."



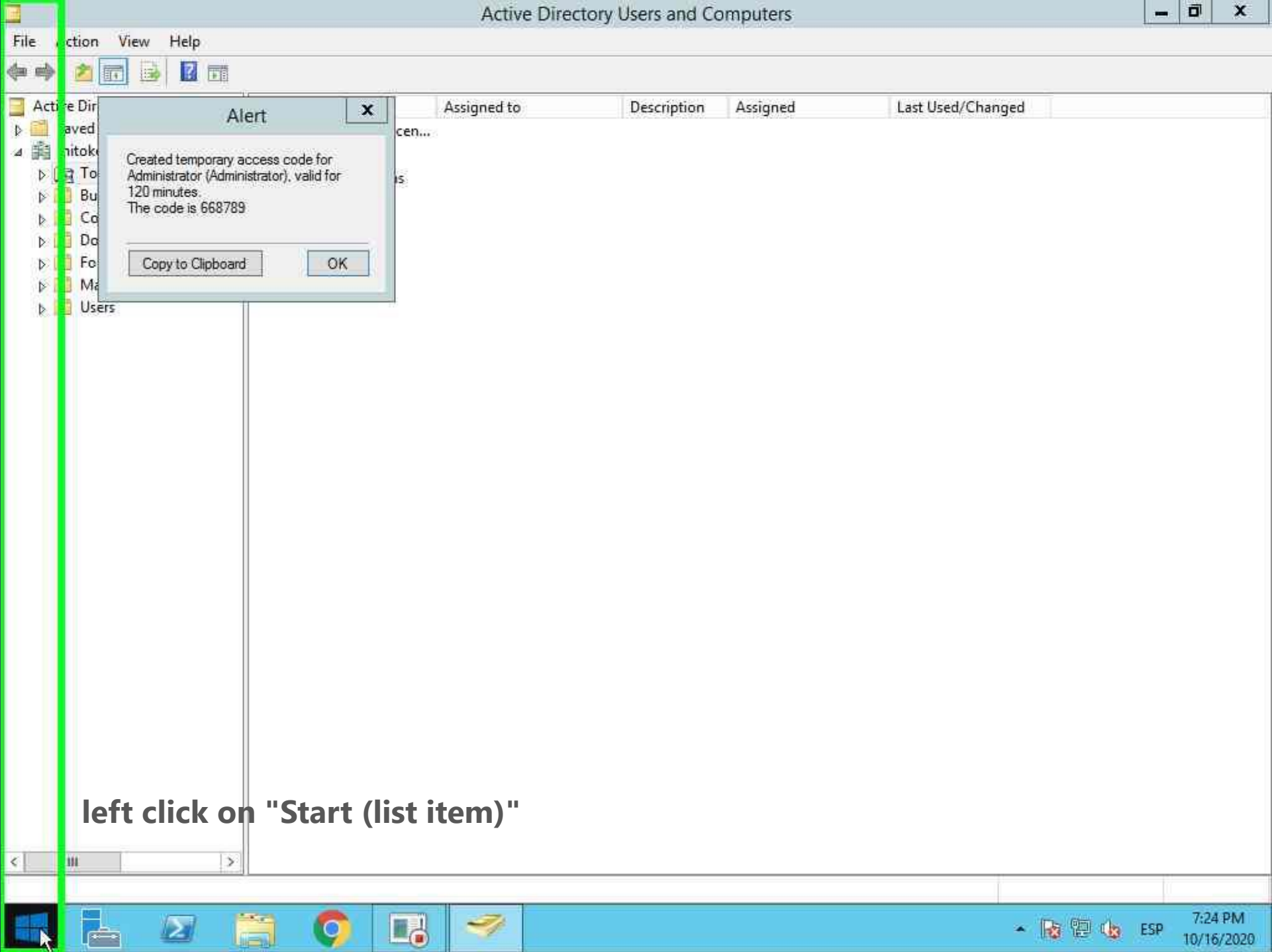
keyboard input on "Enter the object name to select"



left click on "Check Names (button)"



User left click on "OK (button)"



left click on "Start (list item)"

Start



↓ 14 new apps installed

left click on "Radius tester"

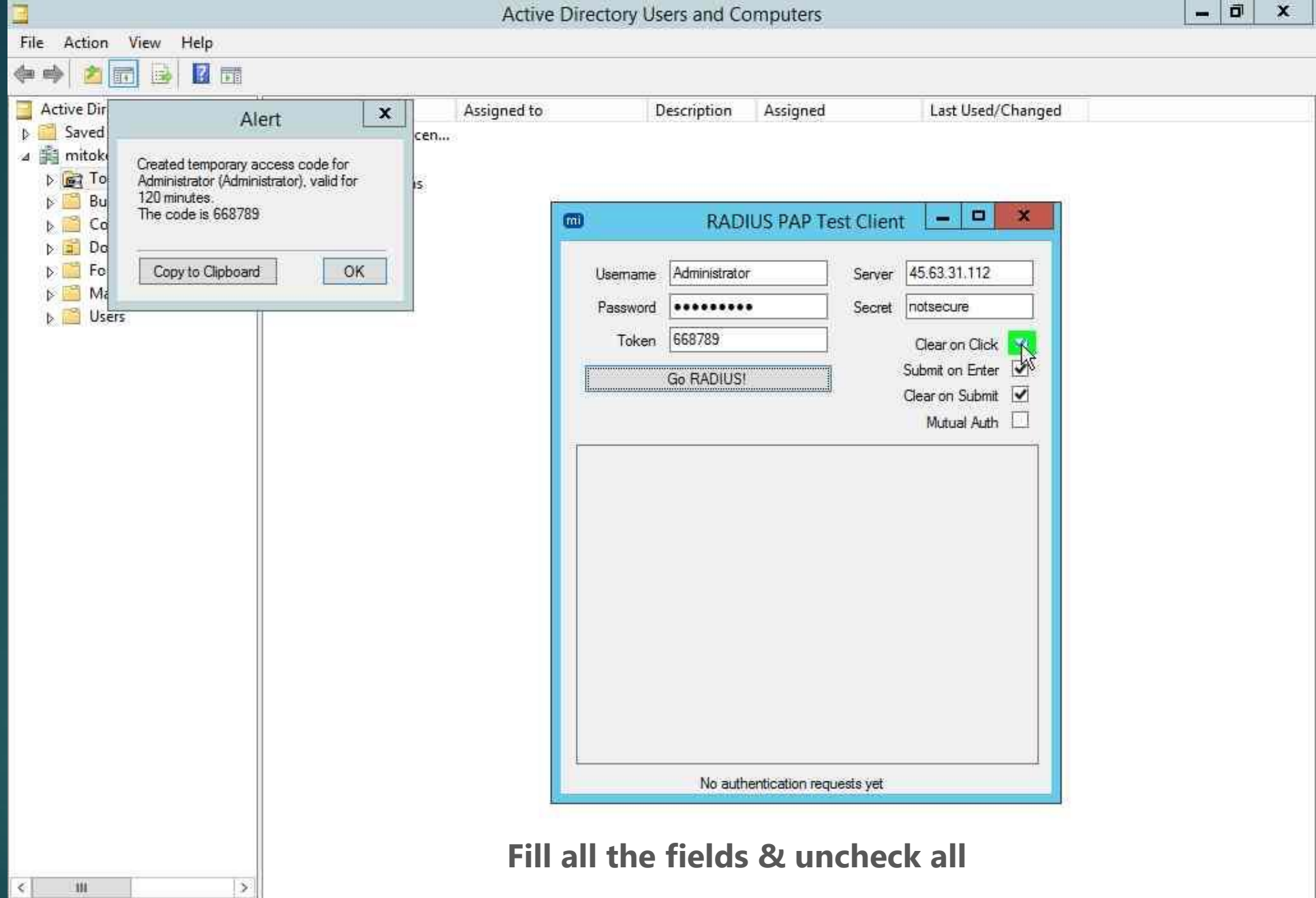
Search

Anywhere ▾

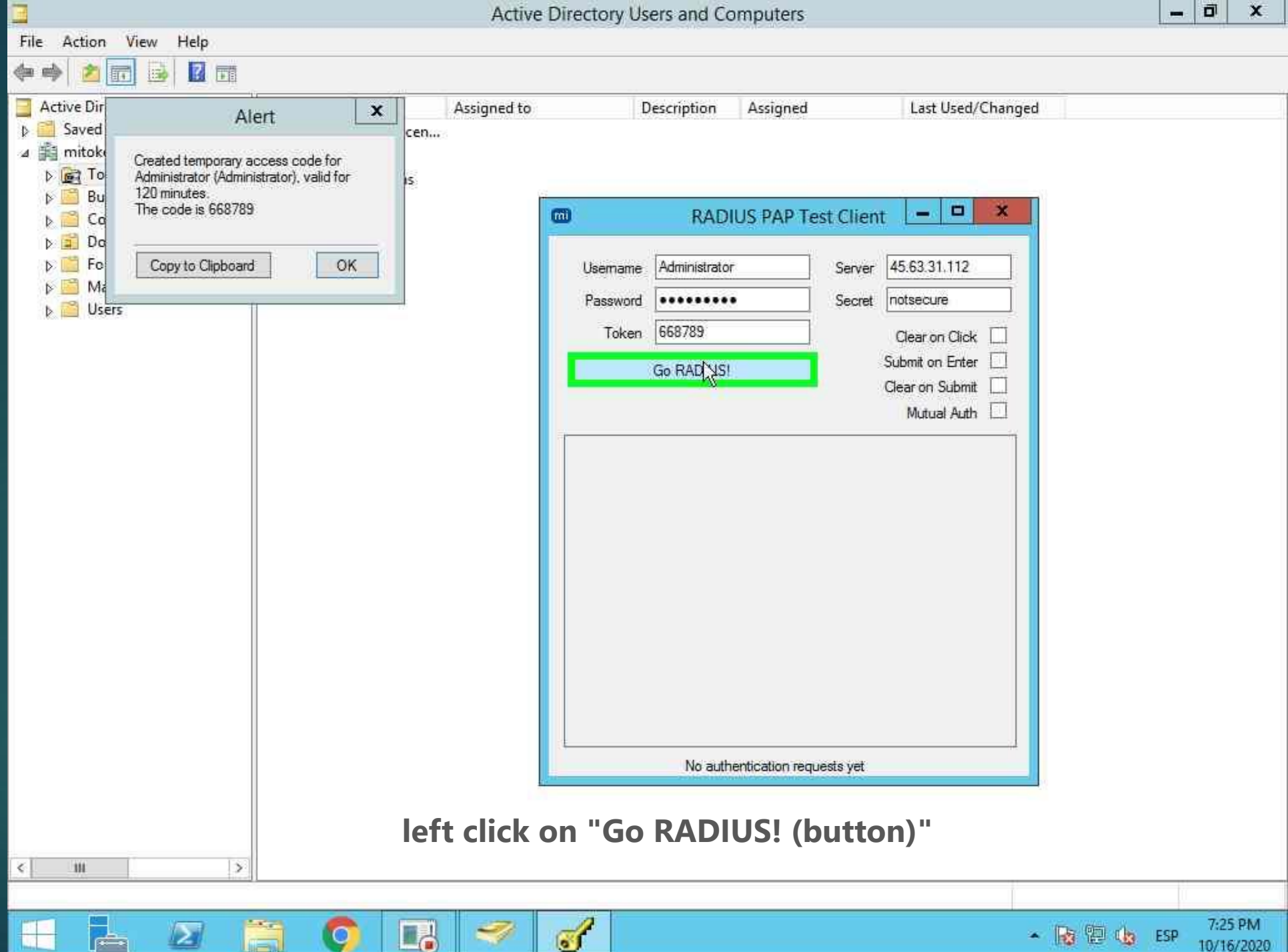
tester 🔍

🔑 RADIUS tester

test
testosterone
test internet speed
testout
test internet connection
testicular cancer
testament
testing



Fill all the fields & uncheck all



Active Directory Users and Computers

FileActionViewHelp

Active Directory

Saved

mitok

To

Bu

Co

Do

For

Ma

Users

Assigned to

Description

Assigned

Last Used/Changed

Alert

Created temporary access code for Administrator (Administrator), valid for 120 minutes.
The code is 668789

Copy to ClipboardOK

RADIUS PAP Test Client

UsernameAdministratorServer45.63.31.112

Password.....Secretnotsecure

Token668789

Go RADIUS!

Clear on Click☐

Submit on Enter☐

Clear on Submit☐

Mutual Auth☐

ACCESS_ACCEPT
FRAMED_PROTOCOL = PPP
SERVICE_TYPE = FRAMED
CLASS = A4-CA-09-9C-00-00-01-37-00-01-02-00-2D-3F-1F-70-00-00-00-00-54-00-03-FF-FE-03-BD-1B-01-D6-A3-F1-39-FD-DB-B9-00-00-00-00-00-00-00-01

Last authentication request at 10/16/2020 7:25:10 PM

7:25 PM

10/16/2020

File Explorer window titled "Mi-Token Stuff" showing a list of files in the "Mi-Token Stuff" folder. The window includes a ribbon with "File", "Home", "Share", and "View" tabs. The left sidebar shows "Favorites" (Desktop, Downloads, Recent places) and "This PC" (Network). The main pane displays a table of 10 items, with "Mi-Token RADIUS plugin_64bit" selected. A green rectangle highlights the table area.

Name	Date modified	Type	Size
Mi-Token Active Directory UI_64bit	10/14/2020 5:54 PM	Application	2,859 KB
Mi-Token ADFS plugin_64bit	10/14/2020 5:54 PM	Application	7,658 KB
Mi-Token API Service_64bit	10/14/2020 5:54 PM	Application	16,133 KB
Mi-Token Cache Updater Installer Server_...	10/14/2020 5:54 PM	Application	12,355 KB
Mi-Token Exchange 2013 OWA Integratio...	10/14/2020 5:54 PM	Application	1,846 KB
Mi-Token Exchange 2016 OWA Integratio...	10/14/2020 5:54 PM	Application	1,846 KB
Mi-Token Intranet Provisioning Website_...	10/14/2020 5:54 PM	Application	47,691 KB
Mi-Token RADIUS plugin_64bit	10/14/2020 5:54 PM	Application	16,225 KB
Mi-Token Reporting Setup_64bit	10/14/2020 5:54 PM	Application	31,885 KB
MT-CP-8090	10/14/2020 5:54 PM	Application	54,429 KB

10 items



Recycle Bin



Google
Chrome



Mi-Token
Stuff

 Windows Server 2012 R2



ESP

7:18 PM
10/16/2020