

Slide 1 – The Zscaler App: Installation



The Zscaler App

Installation

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Slide notes

Welcome to this training module on Zscaler App installation.

Slide 2 - Navigating the eLearning Module

The screenshot shows the Zscaler eLearning module dashboard. At the top right is the Zscaler logo. Below it, the title "Navigating the eLearning Module" is displayed. On the left, there's a sidebar with icons for Dashboard, Diagnostics, Live Logs, Administration, and Search. The main area has tabs for Applications, Users, and Health, with "Applications" selected. It shows metrics like "APPLICATIONS ACCESSED" (15), "DISCOVERED APPLICATIONS" (3), "ACCESS POLICY BLOCKS" (0), and "SUCCESSFUL TRANSACTIONS" (884). A blue callout labeled "Exit" points to the top-right corner of the dashboard area. Another blue callout labeled "Previous Slide" points to the left side of the dashboard. A blue callout labeled "Next Slide" points to the right side. A large blue callout labeled "Play/Pause" points to a play/pause button at the bottom left. A blue callout labeled "Progress Bar" points to a progress bar at the bottom center. A blue callout labeled "Audio On/Off" points to a speaker icon at the bottom right. A blue callout labeled "Closed Captioning" points to a closed captioning icon at the bottom right.

Slide notes

Here is a quick guide to navigating this module. There are various controls for playback including **Play and Pause**, **Previous** and **Next** slide. You can also **Mute** the audio or enable **Closed Captioning** which will cause a transcript of the module to be displayed on the screen. Finally, you can click the X button at the top to exit.

Slide 3 - Agenda

Agenda

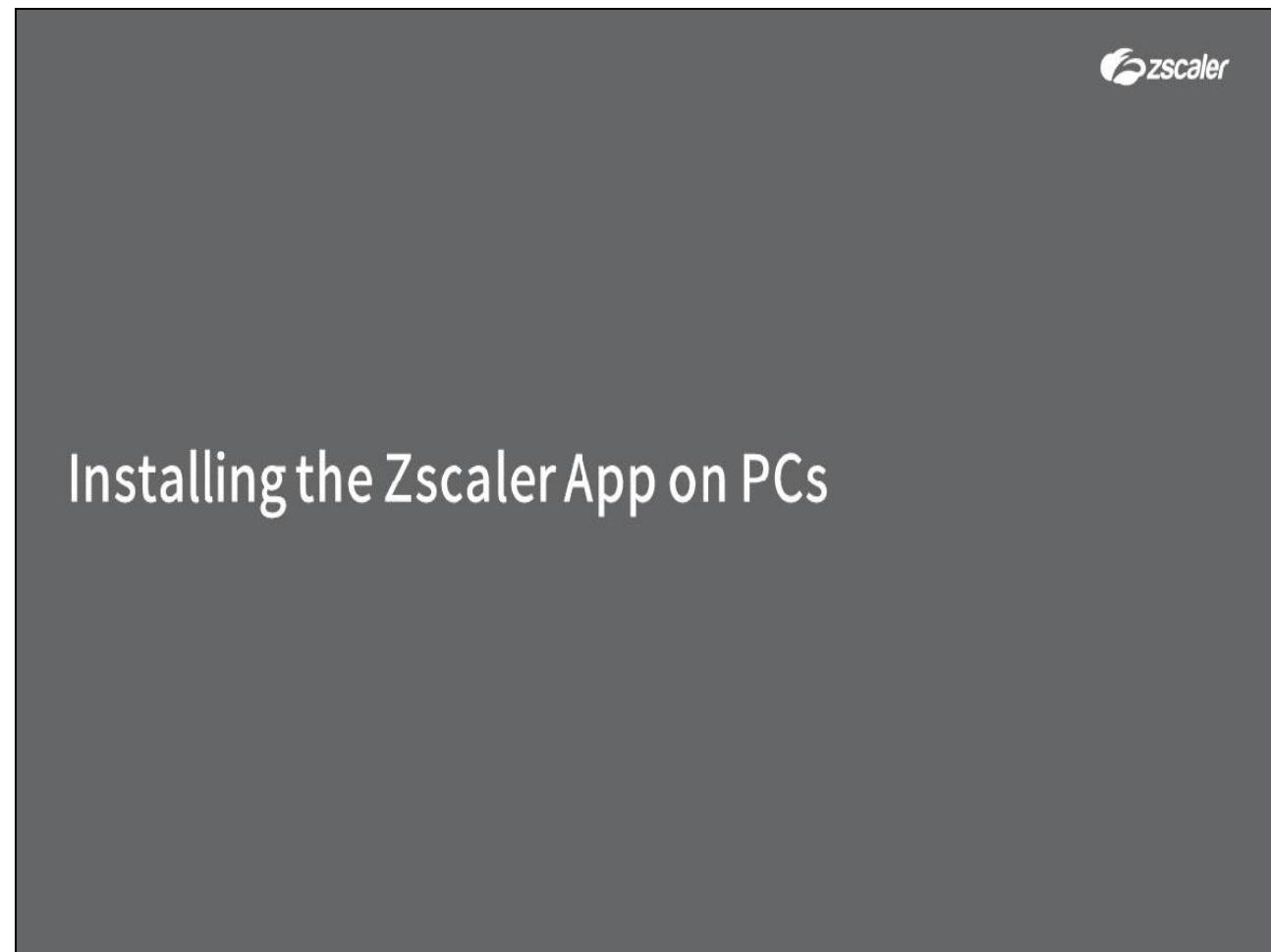


- Installing the Zscaler App on PCs
- Installing the Zscaler App on Mobile
- Interactive Demo: Install Zscaler App with CLI options
- Interactive Demo: Install Zscaler App with AD GPO

Slide notes

In this module we will cover the following topics: Installing the Zscaler App on PCs; installing the app on mobile platforms; an interactive demo of installing the .EXE with CLI options; and an interactive demo of the installation on a Windows PC using an Active Directory (AD) Group Policy Object (GPO).

Slide 4 - Installing the Zscaler App



Slide notes

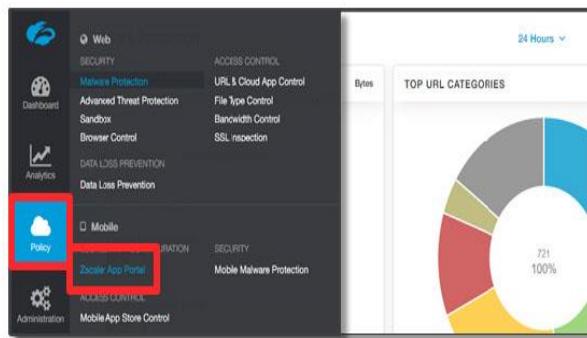
The first topic that we will cover is a look at how to install the Zscaler App on Windows and Mac PCs.

Slide 5 - Obtaining the Install File

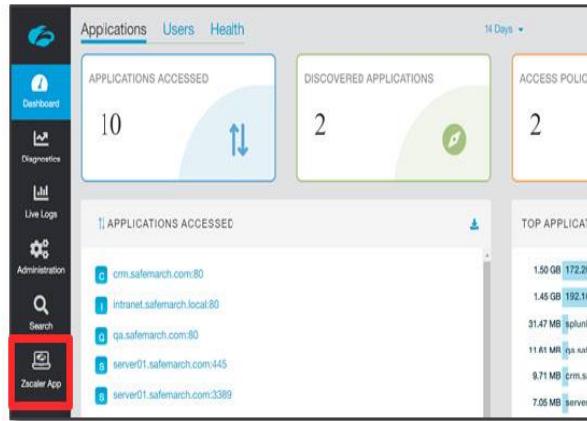
Obtaining the Install File

- The App installer can be found on the Zscaler App Portal

- Accessible from the ZIA Admin Portal from the Policy > Zscaler App Portal option



- Accessible from the ZPA Admin Portal from the Zscaler App icon



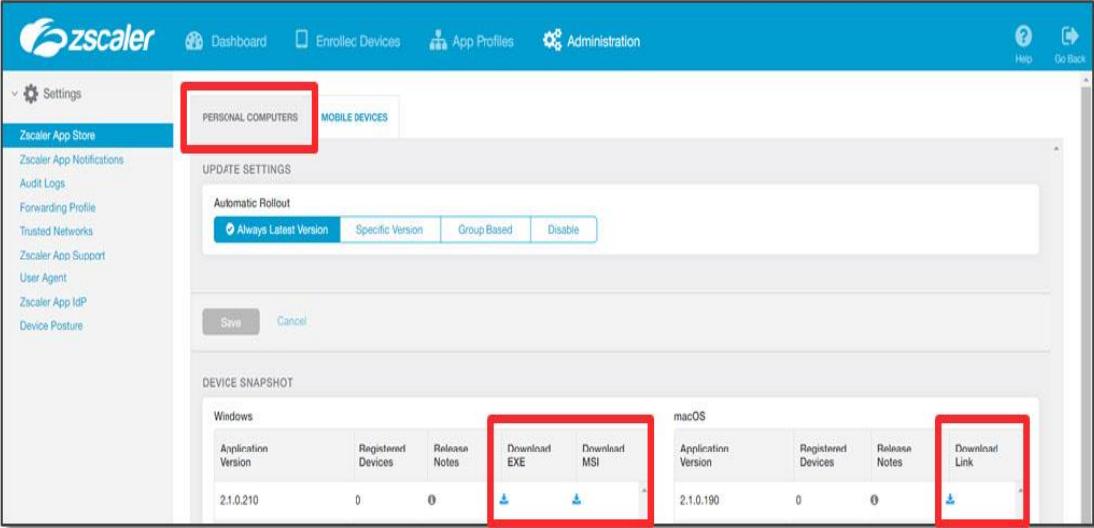
Slide notes

To obtain the Zscaler App install file for PCs, you must go to the Zscaler App Portal. This can be done from the Zscaler Internet Access Admin Portal from the **Policy > Zscaler App Portal** menu option, and from the ZPA Admin Portal using the **Zscaler App** icon.

Slide 6 - Obtaining the Install File

Obtaining the Install File

- The App installer can be found on the Zscaler App Portal
 - On the Administration > Zscaler App Store page, on the Personal Computers tab
 - Click the icon to download the install file you need



The screenshot shows the Zscaler App Store interface. On the left, there's a sidebar with various options like Settings, Zscaler App Store (which is selected and highlighted in blue), Zscaler App Notifications, Audit Logs, Forwarding Profile, Trusted Networks, Zscaler App Support, User Agent, Zscaler App IdP, and Device Posture. The main content area has tabs for PERSONAL COMPUTERS (highlighted with a red box) and MOBILE DEVICES. Below these tabs is a section titled 'UPDATE SETTINGS' with an 'Automatic Rollout' dropdown set to 'Always Latest Version'. Underneath is a 'DEVICE SNAPSHOT' table divided into Windows and macOS sections. In the Windows section, there are two rows: one for Application Version 2.1.0.210 with 'Download EXE' and 'Download MSI' buttons, and another for 2.1.0.190 with a 'Download Link' button. Both the 'Download EXE/MSI' and 'Download Link' buttons are highlighted with red boxes.

Slide notes

The Zscaler App install files for PCs can be found on the **Administration > Zscaler App Store** page. Select the tab for **PERSONAL COMPUTERS** and click the download link for the required file. Note that for Windows devices, the installer is available as either a .EXE, or a .MSI file.

Slide 7 - Obtaining the Install File

Obtaining the Install File

- The App installer can be found on the Zscaler App Portal
 - The install files are hosted on AWS
 - Right click and select **Copy link address** to distribute the link to users

The screenshot shows the Zscaler App Portal interface. On the left, there's a sidebar with 'Zscaler App Store' and various settings like 'Audit Logs', 'Forwarding Profile', and 'Trusted Networks'. The main area shows 'PERSONAL COMPUTERS' and 'MOBILE DEVICES' tabs. Under 'PERSONAL COMPUTERS', there's a 'UPDATE SETTINGS' section with 'Automatic Rollout' options ('Always Latest Version', 'Specific Version', 'Group Based', 'Disable'). Below that is a 'DEVICE SNAPSHOT' table for Windows and macOS. A context menu is open over a Windows row, with 'Copy link address' highlighted. The menu options are: Open link in new tab, Open link in new window, Open link in incognito window, Save link as, Copy link address, Inspect, and Ctrl+Shift+I.

Slide notes

The Zscaler App install files for PCs are actually hosted on AWS. It is possible to copy the location link and distribute it to users for them to install the app themselves.

Slide 8 - Host Platform Resources



Host Platform Resources – PCs

- Zscaler App on Windows and OS X has comparable resource utilization:
 - Windows versions supported: Windows 7 (until January 2021), 8, 8.1, or 10
 - Mac versions supported: Mac OS X 10.10 and later

Disk usage: ~200 MB	Memory: ~150 MB	Processor:
<ul style="list-style-type: none">• Binary size (~25 MB)• Logs size (<100 MB)• Config files (<1 MB)• Updater download binary size (~25 MB)	<ul style="list-style-type: none">• Tray footprint (<100 MB)• Service footprint (<3 MB)• Tunnel Footprint (5MB – 50 MB depending on load)	<ul style="list-style-type: none">• Any processor capable of running a supported operating system

Slide notes

As a reminder, the Zscaler App is supported on **Windows 7, 8, 8.1 and 10**, although note that Windows 7 will only be supported until January 2021. On the Mac platform **OS X 10.10** and later are supported.

The host resources required to install the Zscaler App are comparable for both Windows and the OSX platform:

- The approximate size on disk can reach **200MBs**;
- The Memory requirement can reach **150MB** depending on the tunneling load;
- And any processor capable of running the host OS, will have the capacity to run the Zscaler App as well.

Slide 9 - Host Platform Resources

Host Platform Resources – Mobiles

• Zscaler App on Mobile platforms:

 iOS	 Android
<ul style="list-style-type: none">• OS: iOS 9.0 and later• Platforms: iPhone, iPad, iPod Touch• Memory: 20MB plus space for logs	<ul style="list-style-type: none">• OS: Android 5.0 and later• Memory: 21MB plus space for logs

Slide notes

For the Mobile OS'es:

- For iOS, **version 9.0** and later is supported on **iPhones, iPads and iPod Touch's**, the app requires **20MB** of memory plus some space for logs;
- For Android, **version 5.0** and later of Android are supported and **21MB** of memory is required, once again with some additional space for logs.

Slide 10 - Deploying the App: Windows .EXE Install Options



Deploying the App: Windows .EXE Install Options

- Windows .EXE command line options

- File rename option, e.g. `example.com-Zscaler-windows-0.9.0.109842-installer`

- Run the install executable file with the appropriate command line options...

```
<complete_path> --cloudName <zscaler_cloud> --deviceToken <device_token> --hideAppUIOnLaunch 1  
--mode unattended --policyToken <policy_token> --reinstallDriver 1 --strictEnforcement 1  
--unattendedmodeui <UI_mode> --userDomain <your organization's domain>
```

- Where: `<complete_path>` is the location of the installer .EXE file

<code>--cloudName</code>	: optional value	<code><zscaler_cloud></code> is the name of the Zscaler cloud to connect to
<code>--deviceToken</code>	: optional value	<code><device_token></code> is the device token for silent authentication to Zscaler IdP
<code>--hideAppUIOnLaunch</code>	: optional flag	<code>1</code> specifies App UI is to remain hidden
<code>--mode</code>	: optional flag	<code>unattended</code> to run in silent mode
<code>--policyToken</code>	: optional value	<code><policy_token></code> is the token of the App Profile to apply
<code>--reinstallDriver</code>	: optional flag	<code>1</code> specifies that the driver is to be reinstalled
<code>--strictEnforcement</code>	: optional flag	<code>1</code> specifies App enforcement option (App is required to access the Internet)
<code>--unattendedmodeui</code>	: optional value	<code><UI_mode></code> available: <code>none</code> , <code>minimal</code> , <code>minimalWithDialogs</code>
<code>--userDomain</code>	: optional value	<code><your organization's domain></code> specifies the domain

Slide notes

There are a number of ways to deploy the Zscaler App to Windows systems, full instructions with examples are available in the on-line documentation.

If you choose to use the .EXE installer, you can add it to the GPO as part of a Startup Script, with the option for it to install in unattended mode. One option with the .EXE file, is to specify the user's **Domain** by renaming the file to prefix it with the required Domain. Note that this will effectively 'hard code' the domain into the App, it will not be possible for a user on some other domain to enroll into it.

With the Windows .EXE installer, there are several command line options available, you can:

- Specify the **Cloud** to connect to;
- Specify the **Device Token** for silent authentication to the Zscaler IdP (note that this option is not applicable for ZPA authentication);
- Specify that the app UI should stay hidden prior to enrollment;
- Specify a **Silent** mode installation;
- Specify the token from the **App Profile** to be applied;

- Specify that the driver should be re-installed;
- Activate the ‘enforcement before enrollment’ option (**strict enforcement**);
- Specify what to display to the user during installation;
- And specify the user’s **Domain**.

Note that some parameters require you to provide additional options, for example if you use the **--strictEnforcement** flag, you must also provide **--cloudName** and **--policyToken**.

Slide 11 - Deploying the App: Windows .MSI Install Options



Deploying the App: Windows .MSI Install Options

- Windows .MSI options
 - Edit the MSI installer file as necessary to apply options...

```
msiexec /i <complete_path> /quiet CLOUDNAME=<zscaler_cloud> DEVICETOKEN=<device_token>  
HIDEAPPONLAUNCH=1 POLICYTOKEN=<token_id> REINSTALLDRIVER=1 STRICTENFORCEMENT=1  
USERDOMAIN=<your organization's domain> UNINSTALLPASSWORD=<password>
```

- Where: <complete_path> is the location of the installer .MSI file
 - /quiet : optional flag specifies deploying the Zscaler App in silent mode
 - CLOUDNAME= : optional value <zscaler_cloud> is the name of the Zscaler cloud to connect to
 - DEVICETOKEN= : optional value <device_token> is the device token for silent authentication to Zscaler IdP
 - HIDEAPPONLAUNCH= : optional flag 1 specifies App UI is to remain hidden
 - POLICYTOKEN= : optional value <token_id> is the token of the App Profile to apply
 - REINSTALLDRIVER= : optional flag 1 specifies that the driver is to be reinstalled
 - STRICTENFORCEMENT= : optional flag 1 specifies App enforcement option (App is required to access the Internet)
 - USERDOMAIN= : optional value specifies the domain (prevents users having to enter it on login)

Slide notes

With the Windows .MSI installer a similar set of options are available although without the **--mode**, and **--unattendedmodeui** options.

Note that these options can be added to the command line when running the .MSI file, however, they are more usually added as configuration attributes in a .MST transform file that is then pushed from AD.

Slide 12 - Deploying the App: Personal Computers (Mac)



Deploying the App: Personal Computers (Mac)

- MacOS install options
 - File rename option, e.g. `example.com-Zscaler-osx-1.5.0.326-installer`
 - Use Casper Suite or Tanium with the following installation command and options...

```
sudo sh $downloadLocation/Contents/MacOS/installbuilder.sh --cloudName $cloudNameValue  
--deviceToken $deviceTokenValue --hideAppUIOnLaunch --mode unattended --policyToken  
$policyTokenValue --reinstallDriver 1 --strictEnforcement 1 --unattendedmodeui $uiMode  
--userDomain $userDomainValue
```

- Where: `$downloadLocation` is the location of the unzipped installer app

<code>--cloudName</code>	: optional value	<code>\$cloudNameValue</code> is the name of the Zscaler cloud to connect to
<code>--deviceToken</code>	: optional value	<code>\$deviceTokenValue</code> is the device token for silent authentication to Zscaler IdP
<code>--hideAppUIOnLaunch</code>	: optional flag	1 specifies App UI is to remain hidden
<code>--mode</code>	: optional flag	<code>unattended</code> to run in silent mode
<code>--policyToken</code>	: optional value	<code>\$tokenValue</code> is the token of the App Profile to apply
<code>--reinstallDriver</code>	: optional flag	1 specifies that the driver is to be reinstalled
<code>--strictEnforcement</code>	: optional flag	1 specifies App enforcement option (App is required to access the Internet)
<code>--unattendedmodeui</code>	: optional value	<code>\$uiMode</code> available: <code>none</code> , <code>minimal</code> , <code>minimalWithDialogs</code>
<code>--userDomain</code>	: optional value	<code>\$userDomainValue</code> is the domain of your organization

Slide notes

The app can also be distributed to Mac OS X devices in silent mode using an Endpoint Security and Systems Management (ESSM) tool, such as Casper Suite or Tanium. The same install options are available as for the Windows .EXE installer. The option to edit the installer filename to include the user **Domain** is also supported for Macs.

Again, full instructions with an example are available in the on-line app documentation.

Slide 13 - Strict Enforcement



Strict Enforcement

- If the `--strictEnforcement` option is specified during App installation
 - It applies only to ZIA traffic with the **Tunnel** or **Tunnel With Local Proxy** options
 - It also requires the `--cloudName` and `--policyToken` options

Slide notes

If the **Strict Enforcement** option is specified during App installation, this option is only applicable to ZIA traffic before enrollment into the app, for traffic in the **Tunnel** or **Tunnel With Local Proxy** modes. This option requires you also to include both the `--cloudName` and `--policyToken` options during the install.

Slide 14 - Strict Enforcement



Strict Enforcement

- If the `--strictEnforcement` option is specified during App installation
 - It applies only to ZIA traffic with the **Tunnel** or **Tunnel With Local Proxy** options
 - It also requires the `--cloudName` and `--policyToken` options
- Behavior
 - Bypasses in the **App Profile** PAC file whose `--policyToken` was used – will be forwarded
 - **Tunnel** Mode – All 80/443 traffic will be blocked
 - **Tunnel with Local Proxy** – Any traffic that follows the applied PAC will be blocked
 - **Control** traffic – Any traffic sent by ZSATray or the Z-App UI will be forwarded

Slide notes

When this option is specified Z App will block traffic as follows:

- If anything is bypassed in the **App Profile** PAC file whose policy token was used, it will be forwarded as normal;
- For **Tunnel** mode traffic, all port **80/443** traffic will be blocked (other than those bypasses);
- For **Tunnel with Local Proxy** traffic, as we use the applied system PAC file, anything that follows that PAC will be blocked (again, except items explicitly bypassed);
- Any traffic generated by the App itself will be forwarded as normal.

Slide 15 - Strict Enforcement



Strict Enforcement

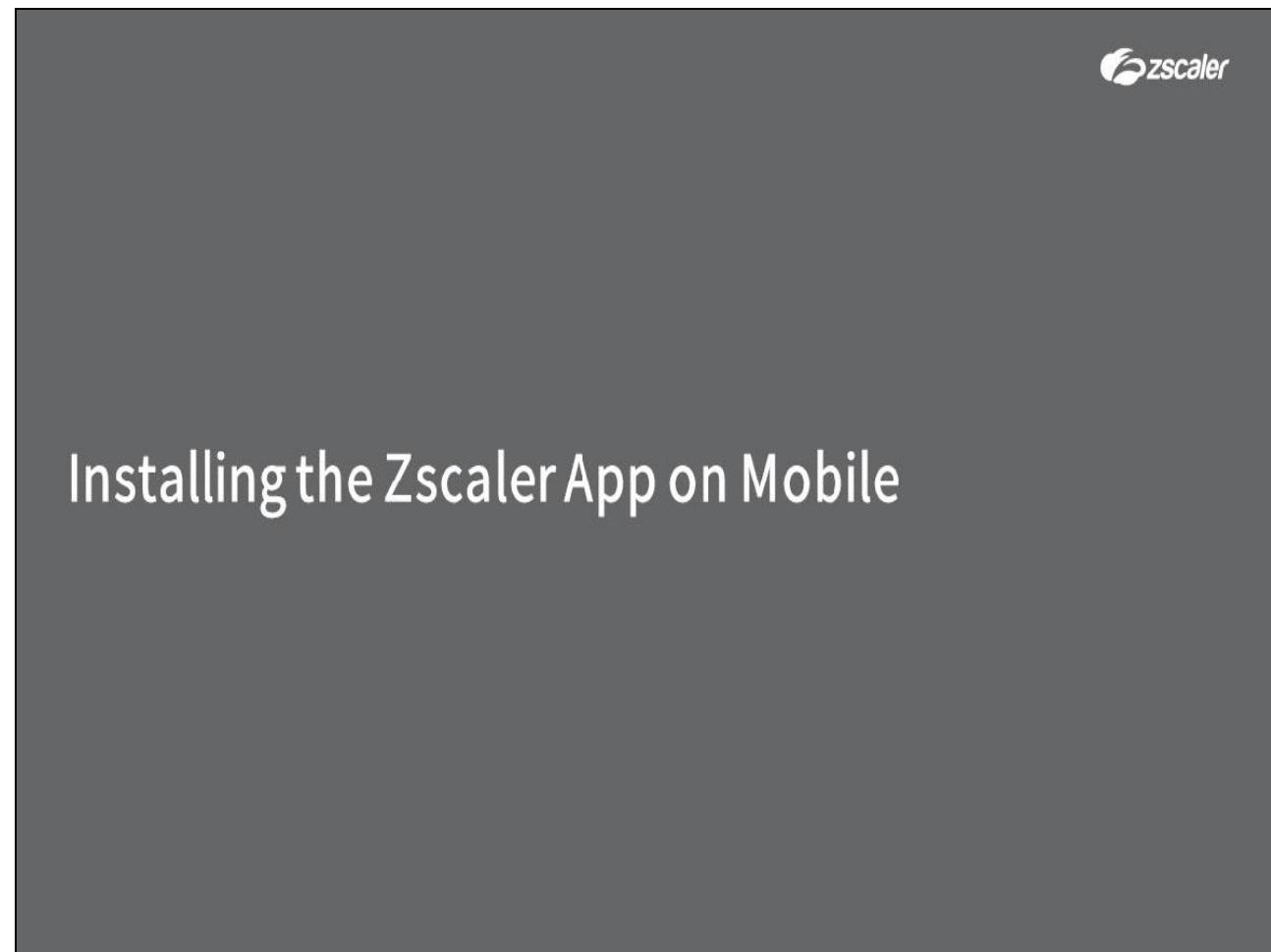
- If the `--strictEnforcement` option is specified during App installation
 - It applies only to ZIA traffic with the Tunnel or Tunnel With Local Proxy options
 - It also requires the `--cloudName` and `--policyToken` options
- Behavior
 - Bypasses in the App Profile PAC file whose `--policyToken` was used – will be forwarded
 - Tunnel Mode – All 80/443 traffic will be blocked
 - Tunnel with Local Proxy – Any traffic that follows the applied PAC will be blocked
 - Control traffic – Any traffic sent by ZSATray or the Z-App UI will be forwarded

Note: Users can exit the Zscaler App before enrolling if they have the Disable Password

Slide notes

Note that if **Strict Enforcement** mode is enabled, users can still exit Zscaler App before enrolling into it, as long as they possess the disable password.

Slide 16 - Installing the Zscaler App on Mobile



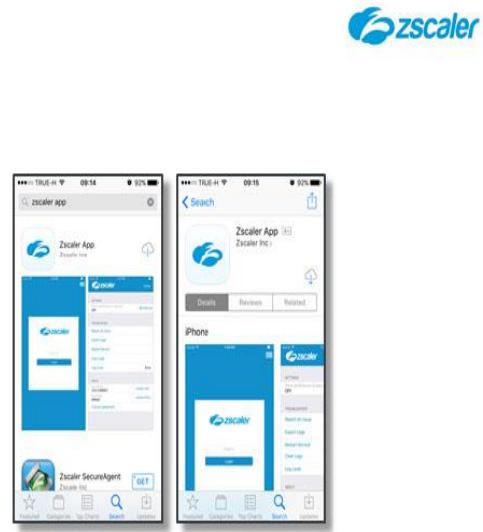
Slide notes

The next topic that we will cover is a look at how to install the Zscaler App on mobile platforms.

Slide 17 - Installer Availability

Installer Availability

- iOS
 - iOS 9.0 or higher
 - App is available on the iTunes store
 - Deploy as a managed App through your preferred MDM platform
 - Install options available



Slide notes

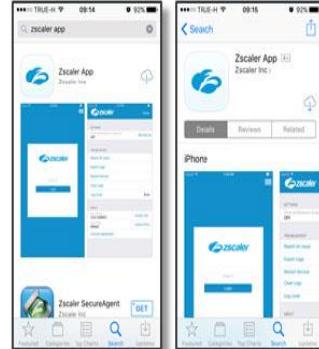
The Zscaler App for iOS is available for direct download and installation from the iTunes App Store, it requires iOS 9 or higher. We would recommend that you deploy the app to your end user's devices as a 'Managed App' from your preferred MDM platform. The advantage being that there are install and app configuration options available, that allow you to better control the end user's experience within the app.

Slide 18 - Installer Availability

Installer Availability



- iOS
 - iOS 9.0 or higher
 - App is available on the iTunes store
 - Deploy as a managed App through your preferred MDM platform
 - Install options available
- Android
 - Android 5.x or higher
 - Deploy as a managed App through your preferred MDM platform
 - Available on the Google Play Store



Slide notes

An installer for Android 5.x and higher is available on the Google Play Store. As with the iOS app, this may be installed directly by your end users, however we would also recommend that you push this install to managed devices from your MDM platform.

Slide 19 - iOS Install Options



iOS Install Options

- Deploy the App as a managed App using your MDM platform
 - Apply a **.mobileconfig** file, or pass attributes with configuration options:
 - userName** : Specify the user's name (without domain)
 - userDomain** : Specify the user domain (users are taken directly to the SSO login page)
 - strictEnforcement**: Require users to enroll with the Zscaler App before they access the Internet
 - deviceToken** : Specify a token value from the Zscaler App IdP configuration
 - cloudName** : Specify the Zscaler cloud on which your organization is provisioned
 - onDemandRules** : Configure rules according to the Apple iPhone Configuration Profile Reference
 - excludeList** : Exclude domains and IP addresses that should *NOT* be tunneled
 - When deployed from InTune, the App may be deployed in per-app VPN mode for ZPA applications

Slide notes

When deploying the Zscaler App to iOS as a 'Managed App' from your MDM platform, a **.mobileconfig** file can be applied to better control the installation and the end user's experience of the app; or attributes can be defined directly within the MDM portal. A sample configuration file is available for download from the Zscaler Support Portal.

The options supported currently are similar to some of the options available for PCs:

- **userName** - to specify an individual user's name without the domain (this can generally be populated automatically through a variable in the MDM platform);
- **userDomain** - the **Domain** for your user population, if specified your users will be taken straight to the IdP login page to authenticate;
- **strictEnforcement** - this option requires users to enroll with the Zscaler App before they may access the Internet at all (note that this option requires the device to be in **Supervised** mode);
- **deviceToken** - specify the token value for silent authentication using the Zscaler App IdP;
- **cloudName** - this option allows you to specify the Zscaler cloud to connect to (if your organization is provisioned on more than one cloud);

- **onDemandRules** - this allows you to configure additional rules according to the Apple iPhone Configuration Profile Reference allowing control over automatic connections;
- **excludeList** - this option allows you to exclude domains and IP addresses that should not be tunneled (note that if you are using the **strictEnforcement** option, this option is critical to allow IdP and MDM connectivity).

When installed through Microsoft InTune MDM, the iOS Z App may be deployed in per-app VPN mode for ZPA, where only specific mobile apps are allowed to send traffic into the ZPA tunnel.

Slide 20 - iOS Install Options



iOS Install Options

- Deploy the App as a managed App using your MDM platform
 - Apply a .mobileconfig file, or pass attributes with configuration options:
 - `userName` : Specify the user's name (without domain)
 - `userDomain` : Specify the user domain (users are taken directly to the SSO login page)
 - `strictEnforcement`: Require users to enroll with the Zscaler App before they access the Internet
 - `deviceToken` : Specify a token value from the Zscaler App IdP configuration
 - `cloudName` : Specify the Zscaler cloud on which your organization is provisioned
 - `onDemandRules` : Configure rules according to the Apple iPhone Configuration Profile Reference
 - `excludeList` : Exclude domains and IP addresses that should *NOT* be tunneled
 - When deployed from InTune, the App may be deployed in per-app VPN mode for ZPA applications
- Some functionality requires the device to be in **Supervised** mode
 - The `strictEnforcement` install option
 - The `Tunnel with Local Proxy` forwarding option

Slide notes

Note that some functionality also requires the device to be in **Supervised** mode, namely; the `strictEnforcement` install option, and the `Tunnel with Local Proxy` forwarding option.

Also note that these options apply to Zscaler Internet Access rather than Zscaler Private Access, so are not relevant in a ZPA-only deployment.

Slide 21 - Android Install Options



Android Install Options

- Deploy the App as a managed App using your MDM platform
 - Pass attributes with configuration options:
 - `userName` : Specify the user's name (without domain)
 - `userDomain` : Specify the user domain (users are taken directly to the SSO login page)
 - `deviceToken` : Specify a token value from the Zscaler App IdP configuration
 - `cloudName` : Specify the Zscaler cloud on which your organization is provisioned

Slide notes

With Android, attributes can also be defined directly within the MDM portal with a subset of the options available for iOS; `userName`, `userDomain`, `deviceToken` and `cloudName`.

Slide 22 - Android Install Options



Android Install Options

- Deploy the App as a managed App using your MDM platform
 - Pass attributes with configuration options:
 - `userName` : Specify the user's name (without domain)
 - `userDomain` : Specify the user domain (users are taken directly to the SSO login page)
 - `deviceToken` : Specify a token value from the Zscaler App IdP configuration
 - `cloudName` : Specify the Zscaler cloud on which your organization is provisioned
- On Samsung devices it is possible to deploy two instances of Zscaler App
 - For corporate use in the **Knox** container
 - For personal use

Slide notes

For Samsung Android devices it is possible to install two instances of the Zscaler App, one for personal use and one in the enterprise **Knox** container. The two instances are completely distinct and can be configured independently.

Slide 23 - Interactive Demo: Install Zscaler App with CLI Options



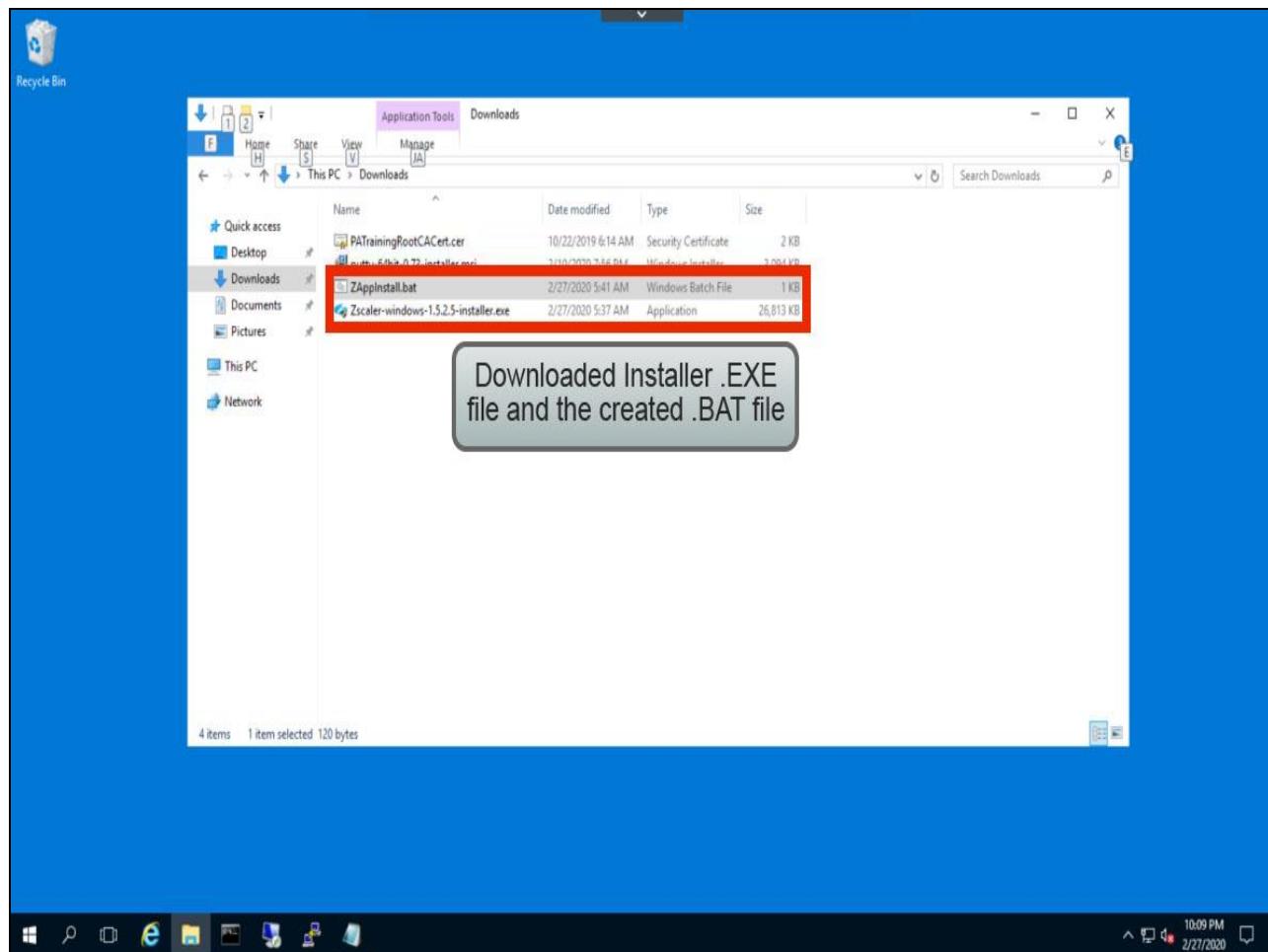
Interactive Demo: Install Zscaler App with CLI Options

Slide notes

In the next topic we will look at how use some of the CLI options when using the .EXE installer file.

This section has been created as an interactive demo to give you a feel for the use of the Zscaler App installer file. You will be asked to select the appropriate options to install the App. You may also use the Play control to proceed to the next step.

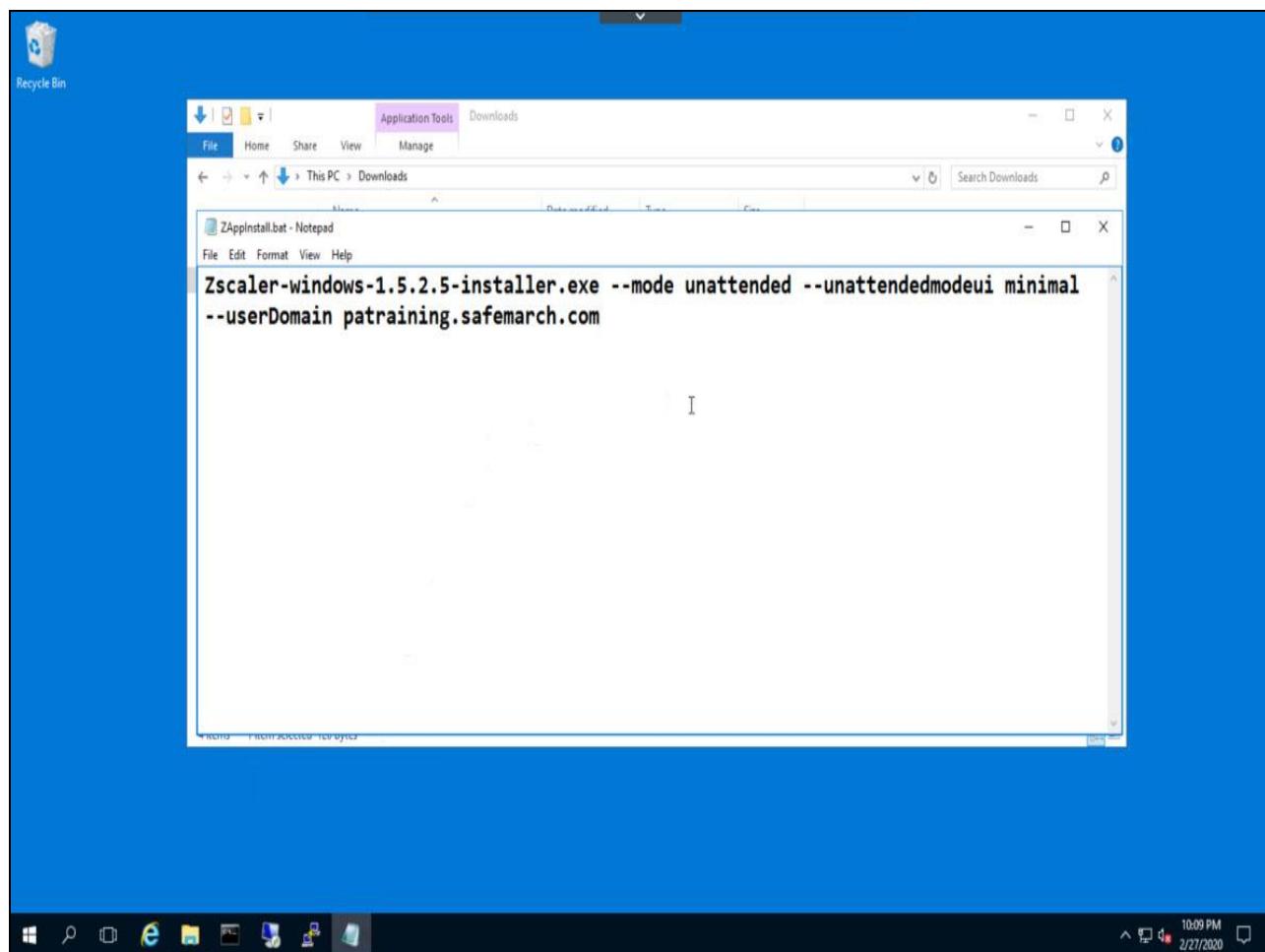
Slide 24 - Slide 24



Slide notes

On a Windows client PC, we've downloaded the install file and created a .BAT file to run the installation. If we edit that file, ...

Slide 25 - Slide 25

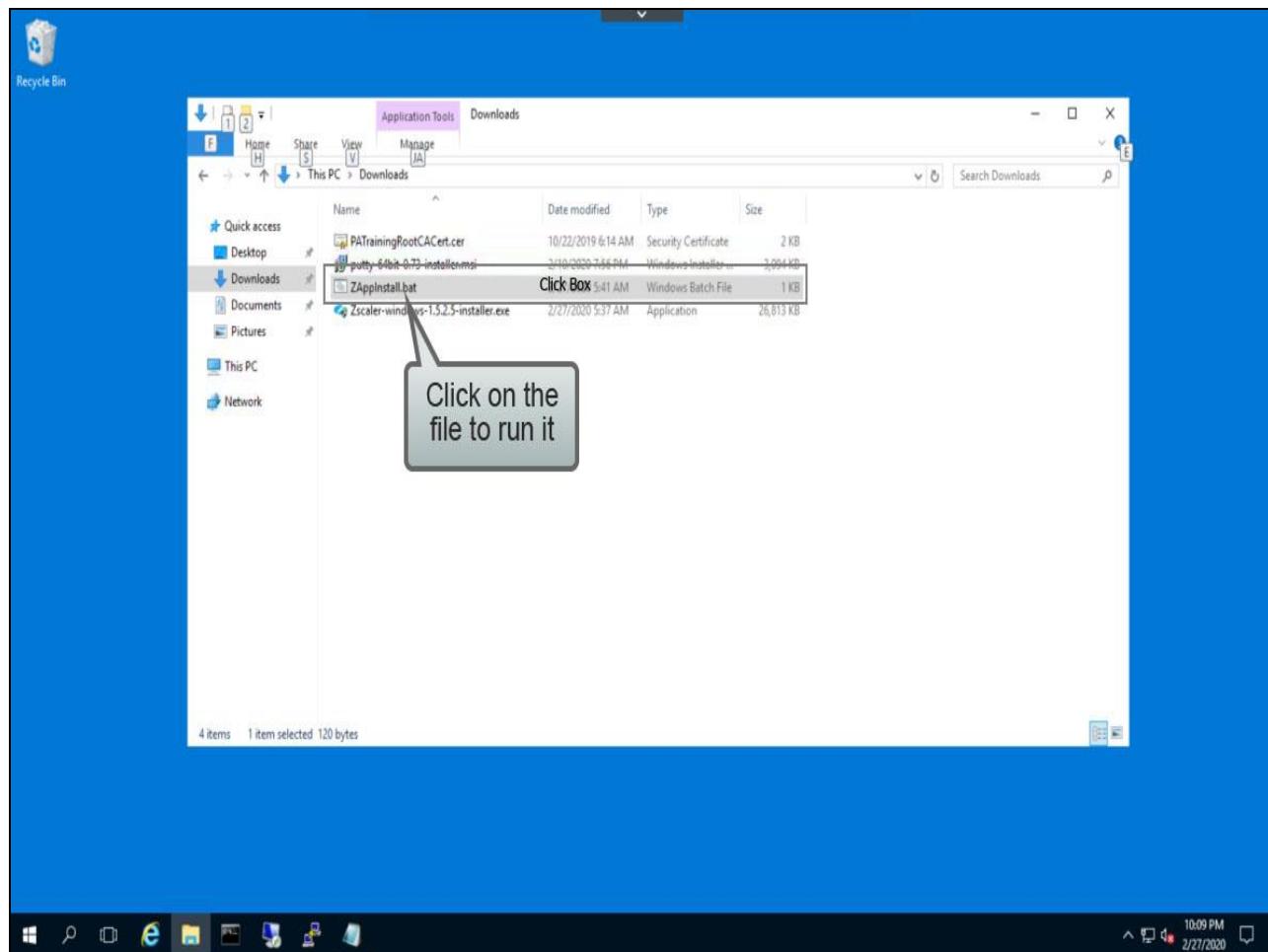


Slide notes

...you can see the options that we will be using: **--mode** set to **unattended**; **--unattendedmodeui** set to **minimal**; and **--userDomain** set to **patraining.safemarch.com**.

Note, if the user is associated with more than one Zscaler cloud, you would also need the **--cloudName** parameter, with the name of the relevant cloud

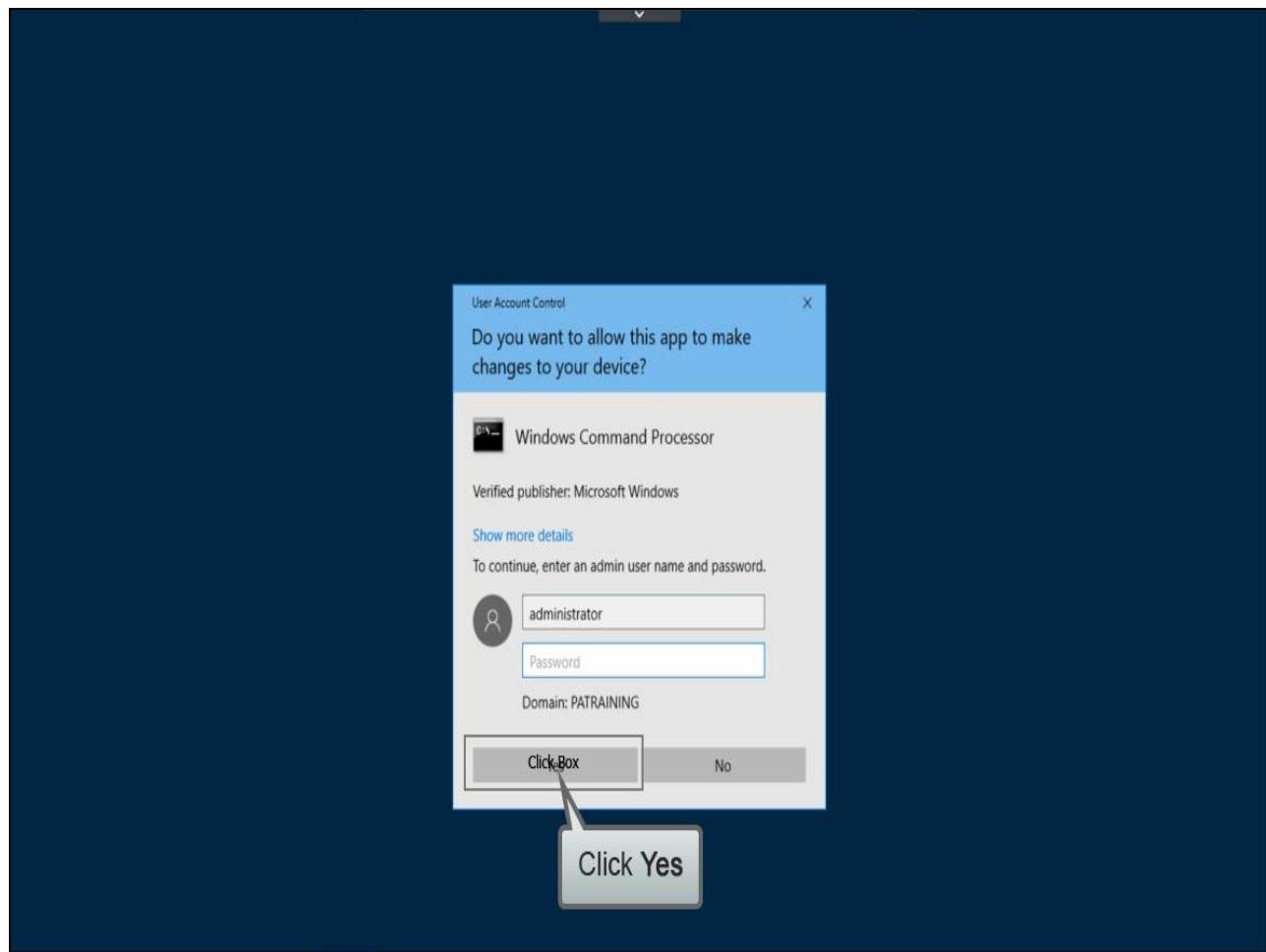
Slide 26 - Slide 26



Slide notes

Double click on the .BAT to run it, ...

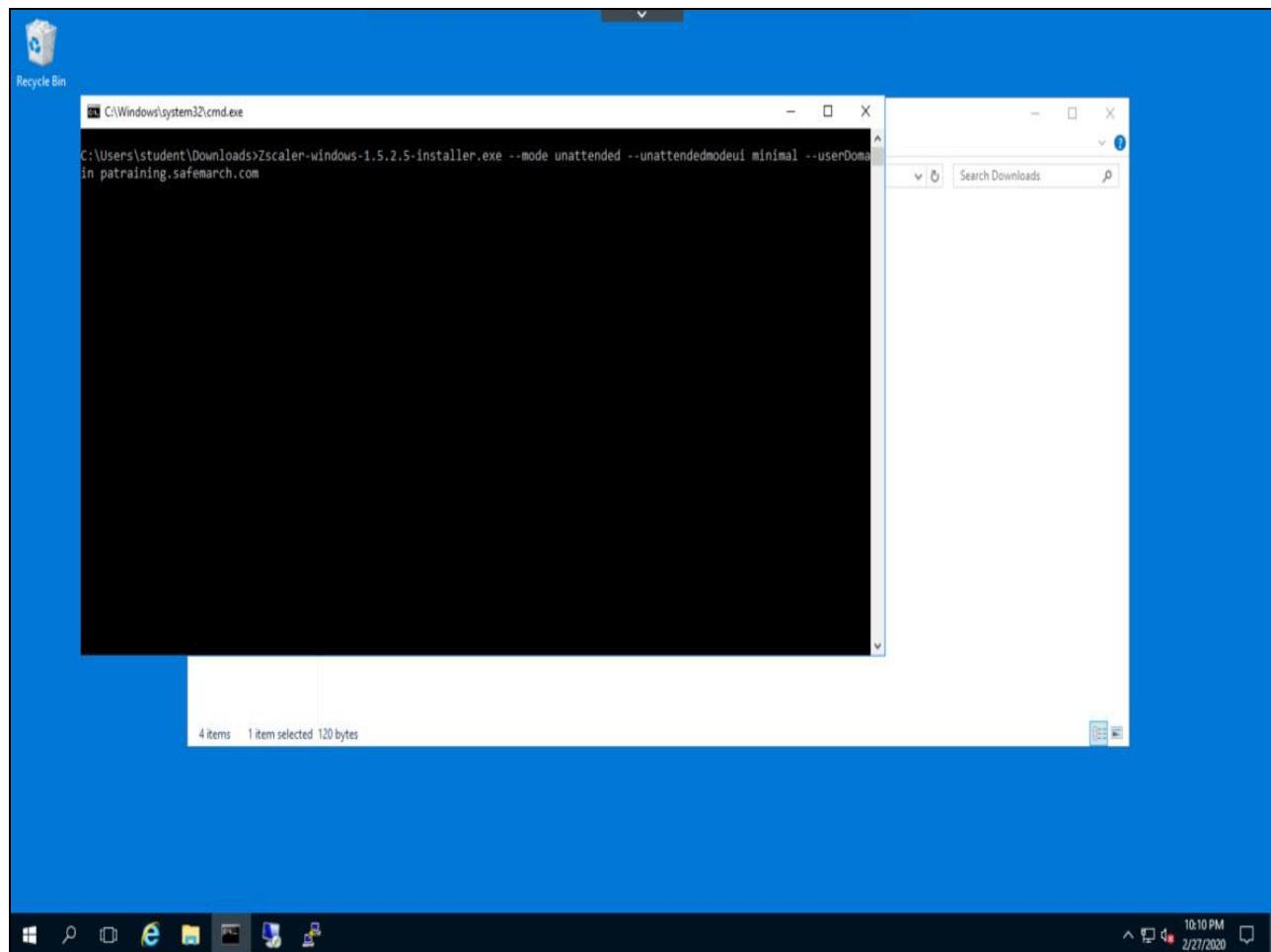
Slide 27 - Slide 27



Slide notes

...login as the administrator and click **Yes** (the user of this machine has no install rights), ...

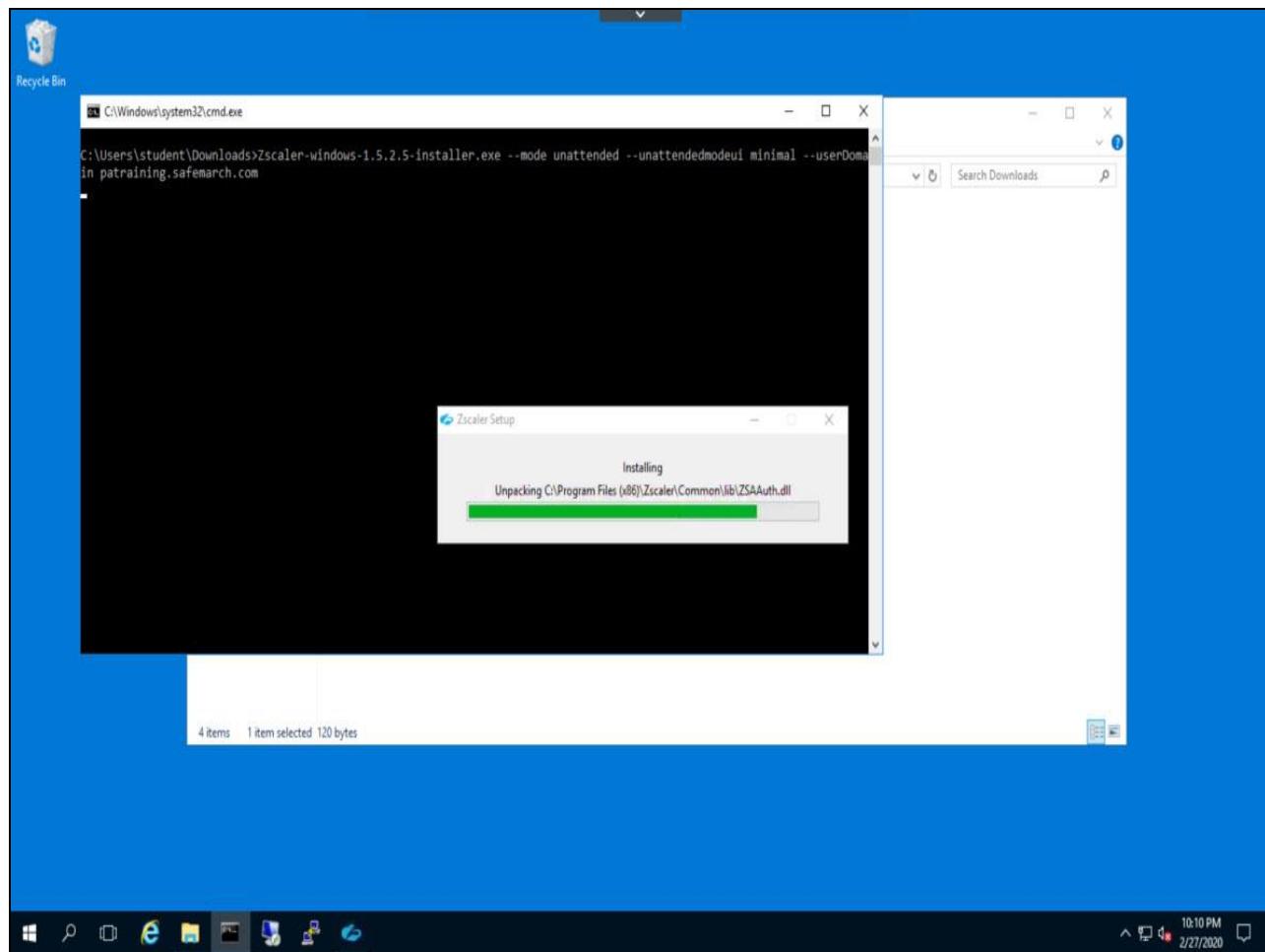
Slide 28 - Slide 28



Slide notes

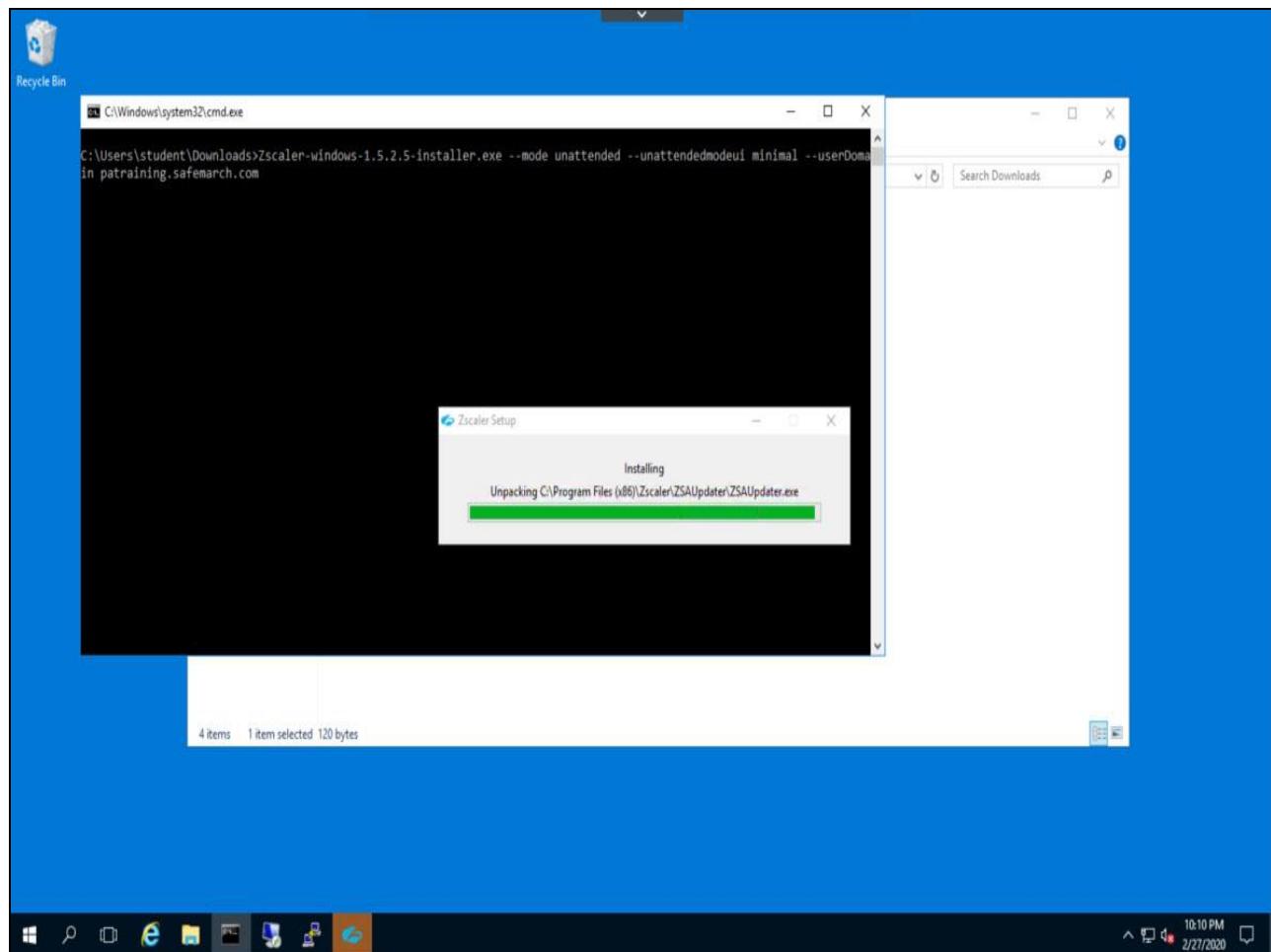
...and the installer will execute with minimal dialogs for the end user.

Slide 29 - Slide 29



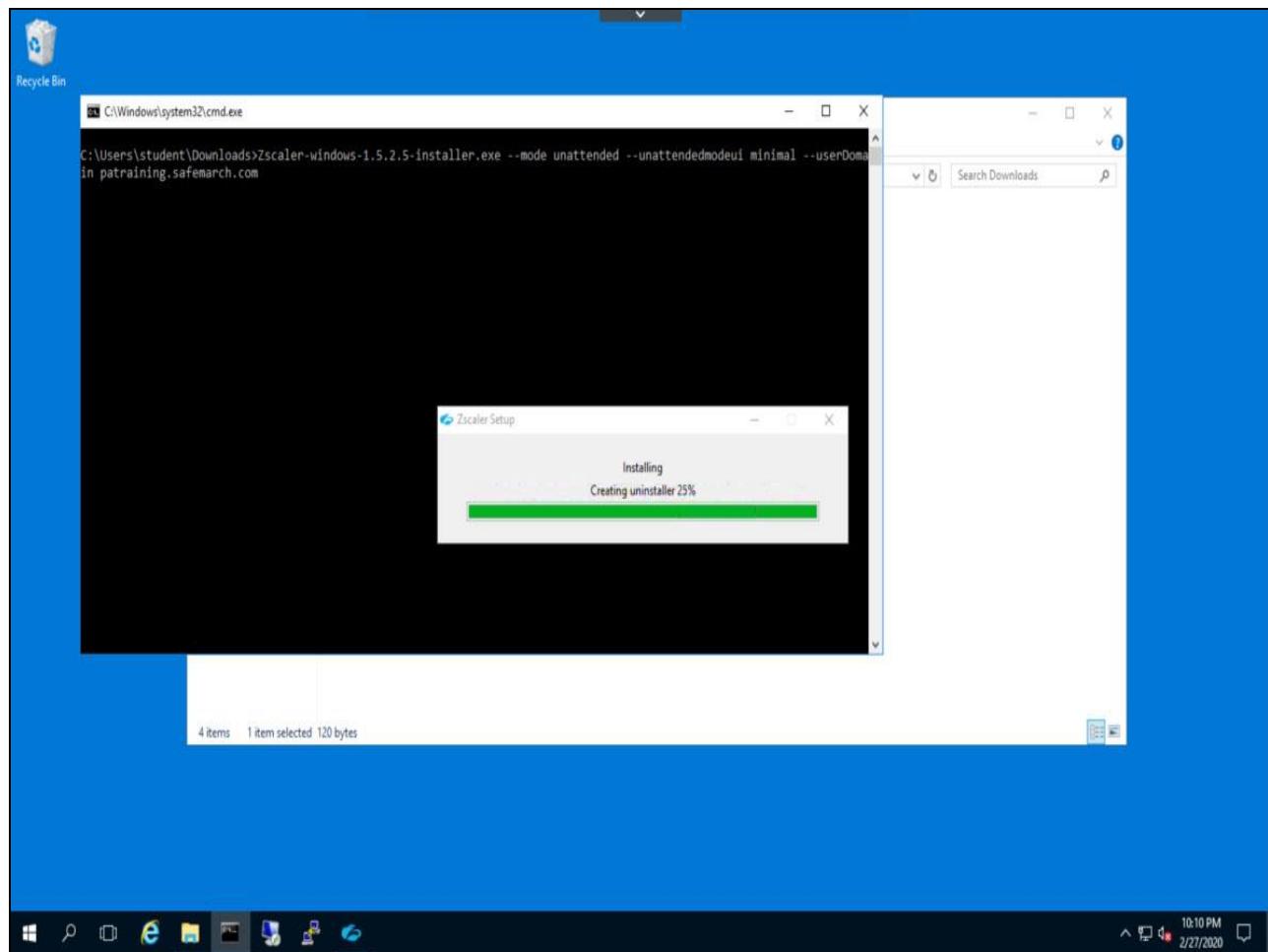
Slide notes

Slide 30 - Slide 30



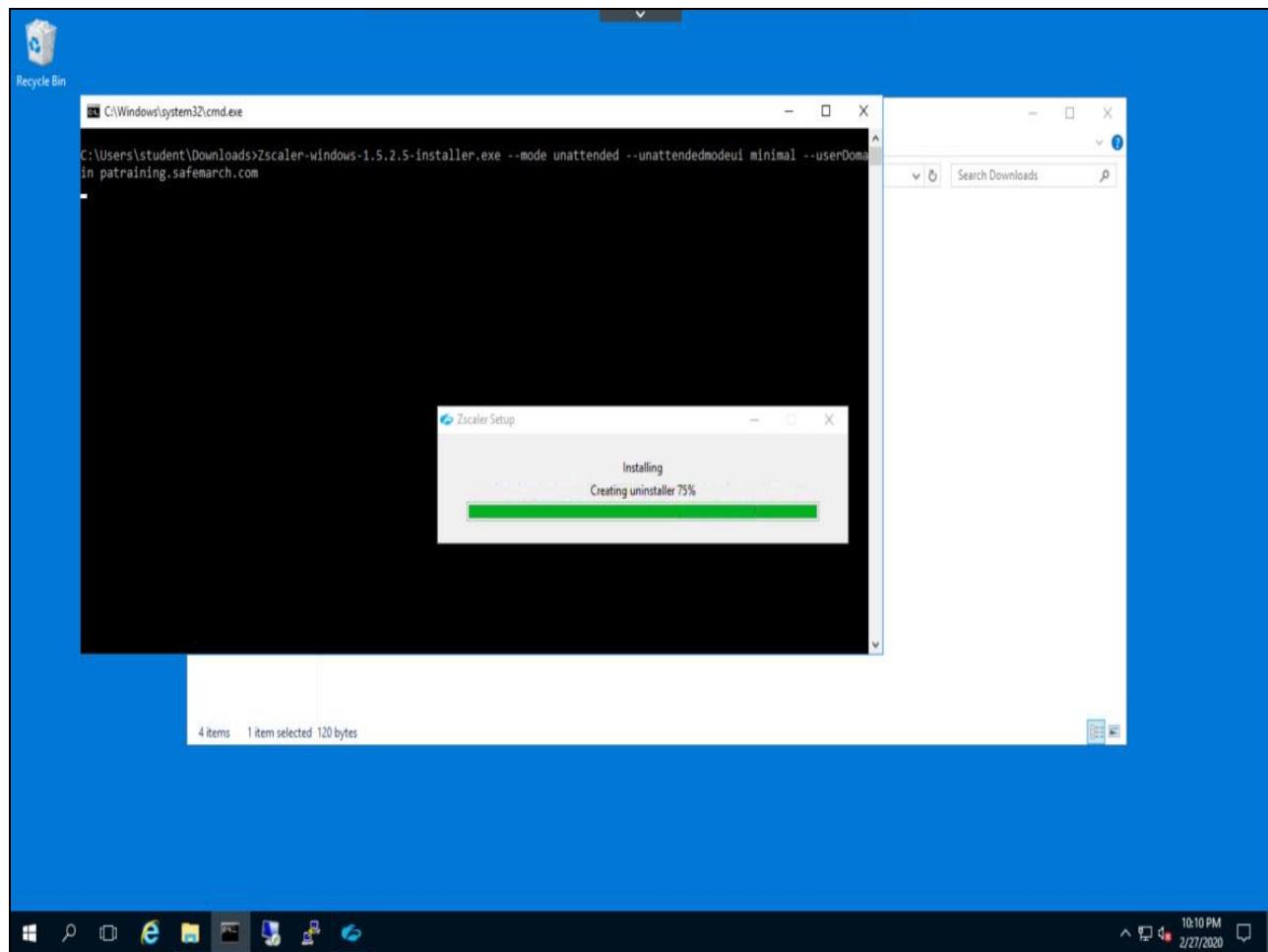
Slide notes

Slide 31 - Slide 31

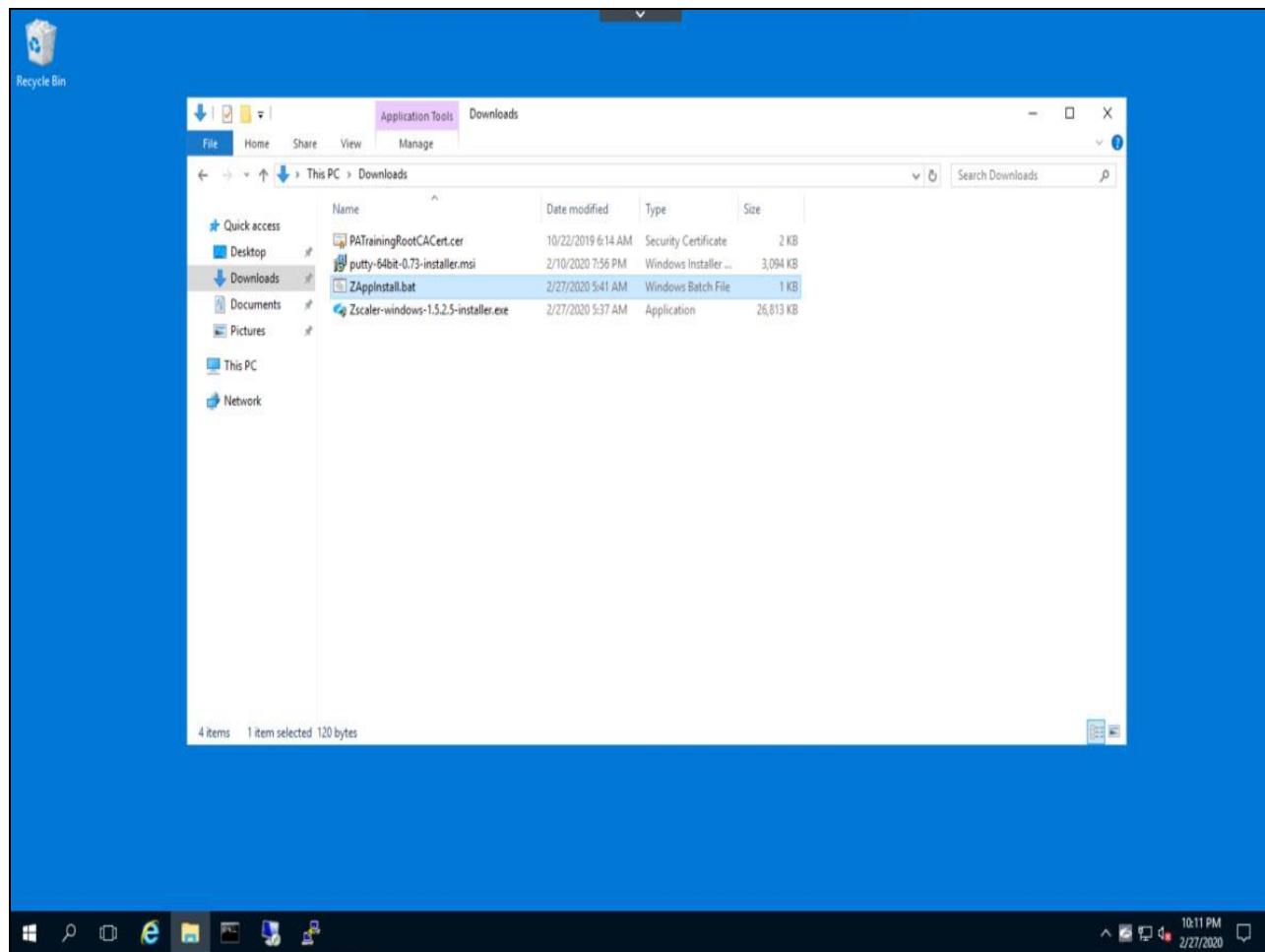


Slide notes

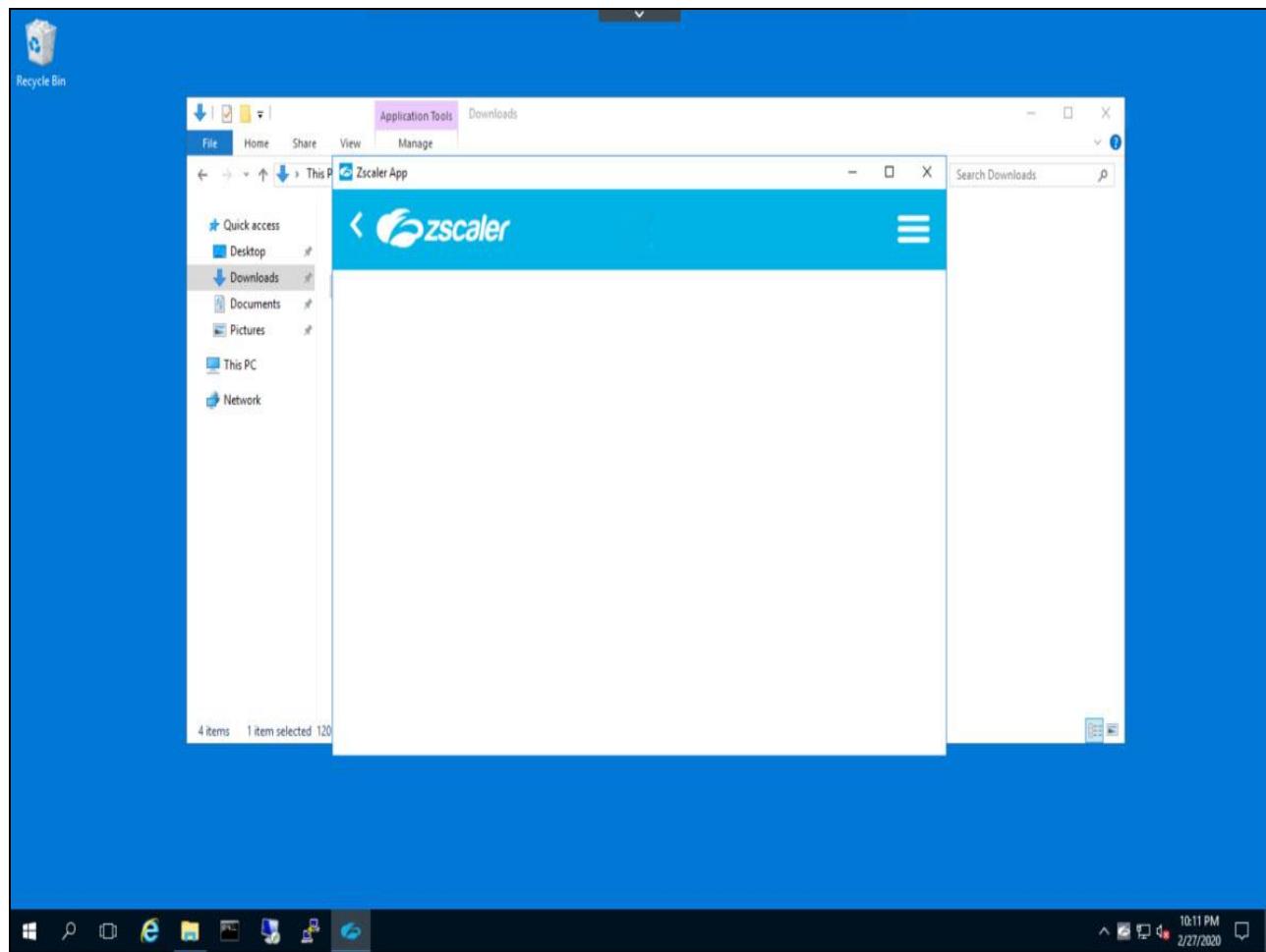
Slide 32 - Slide 32



Slide notes

Slide 33 - Slide 33**Slide notes**

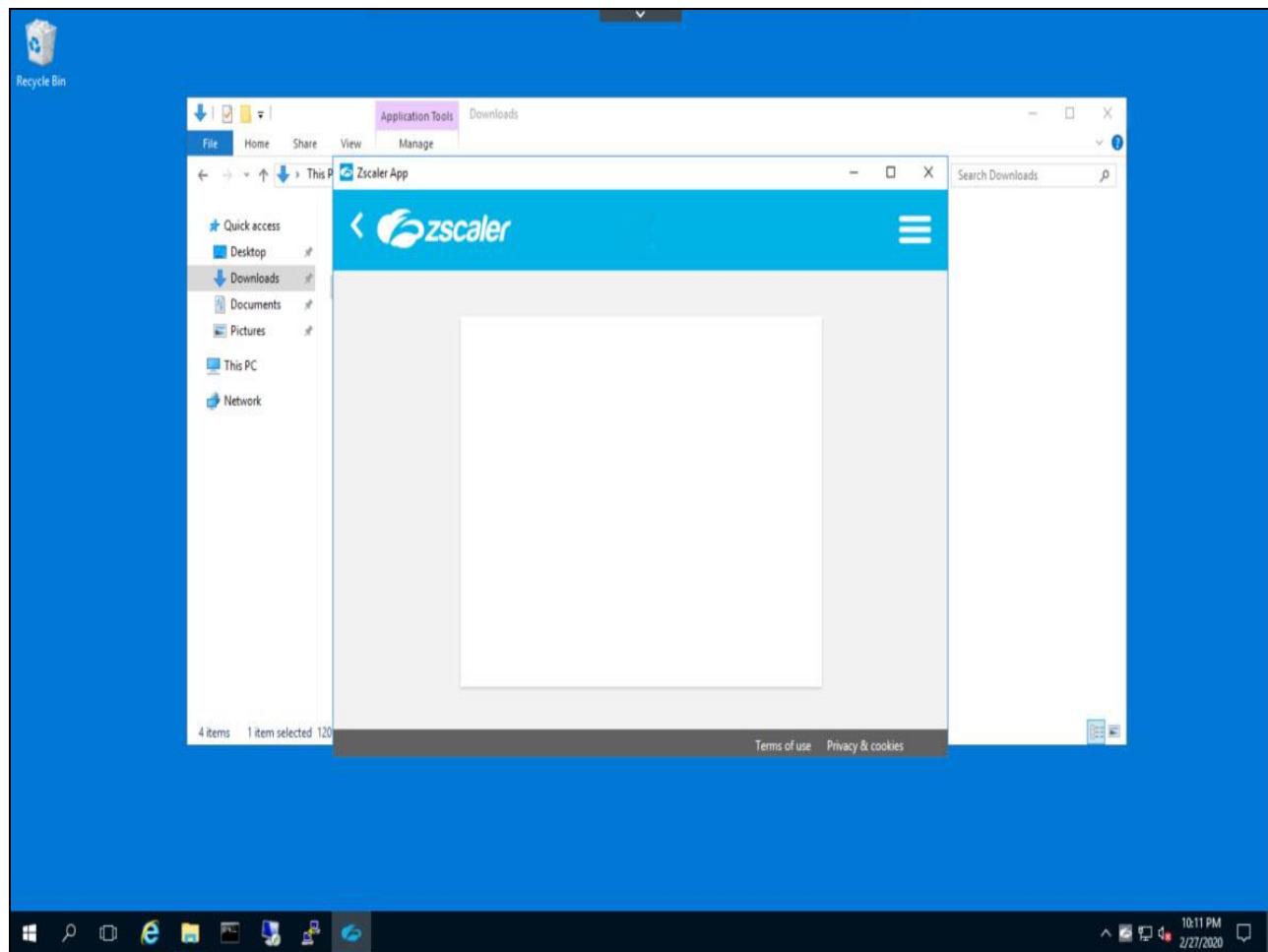
Slide 34 - Slide 34



Slide notes

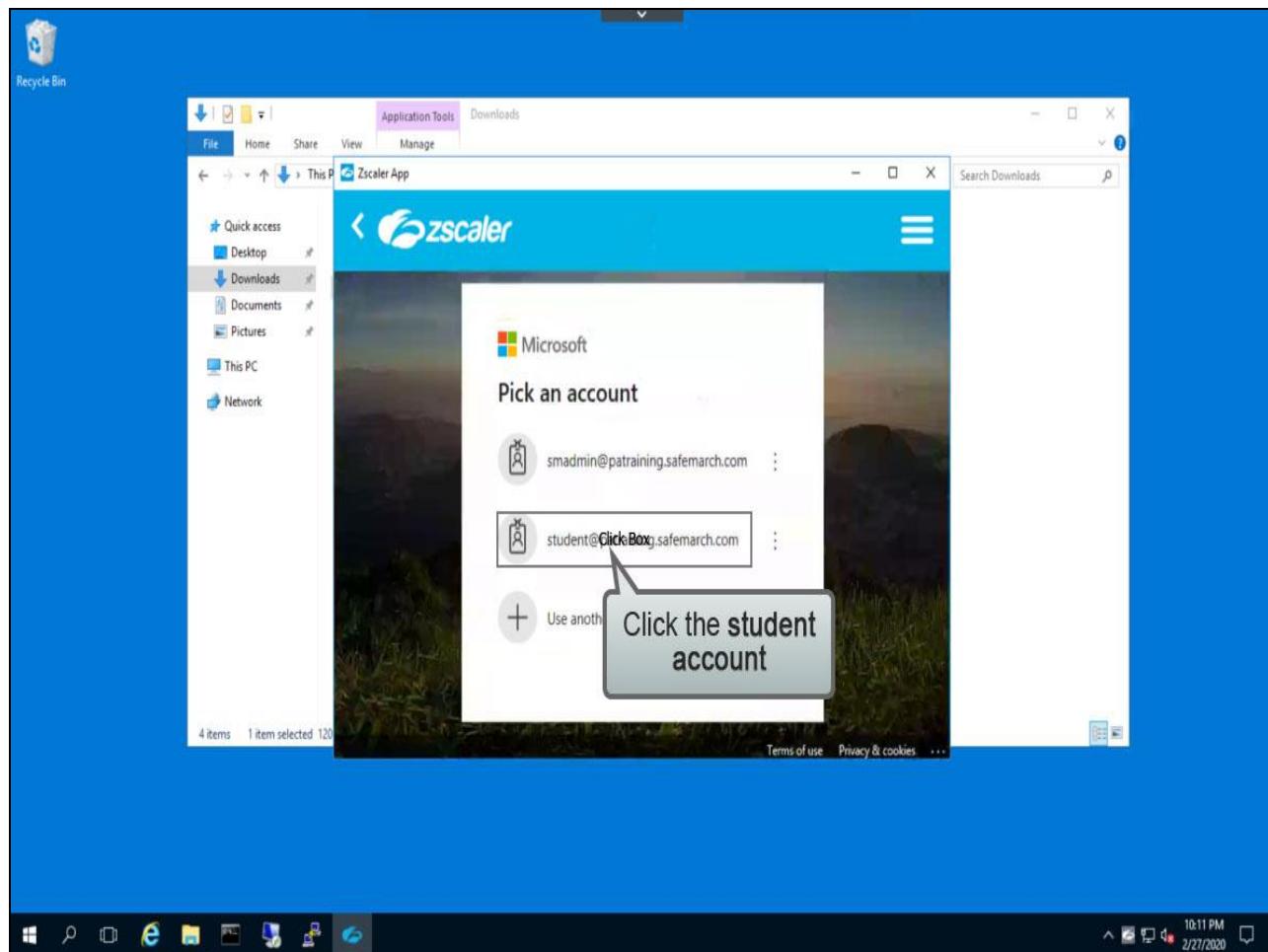
Once the App is installed, it will load the GUI, ...

Slide 35 - Slide 35



Slide notes

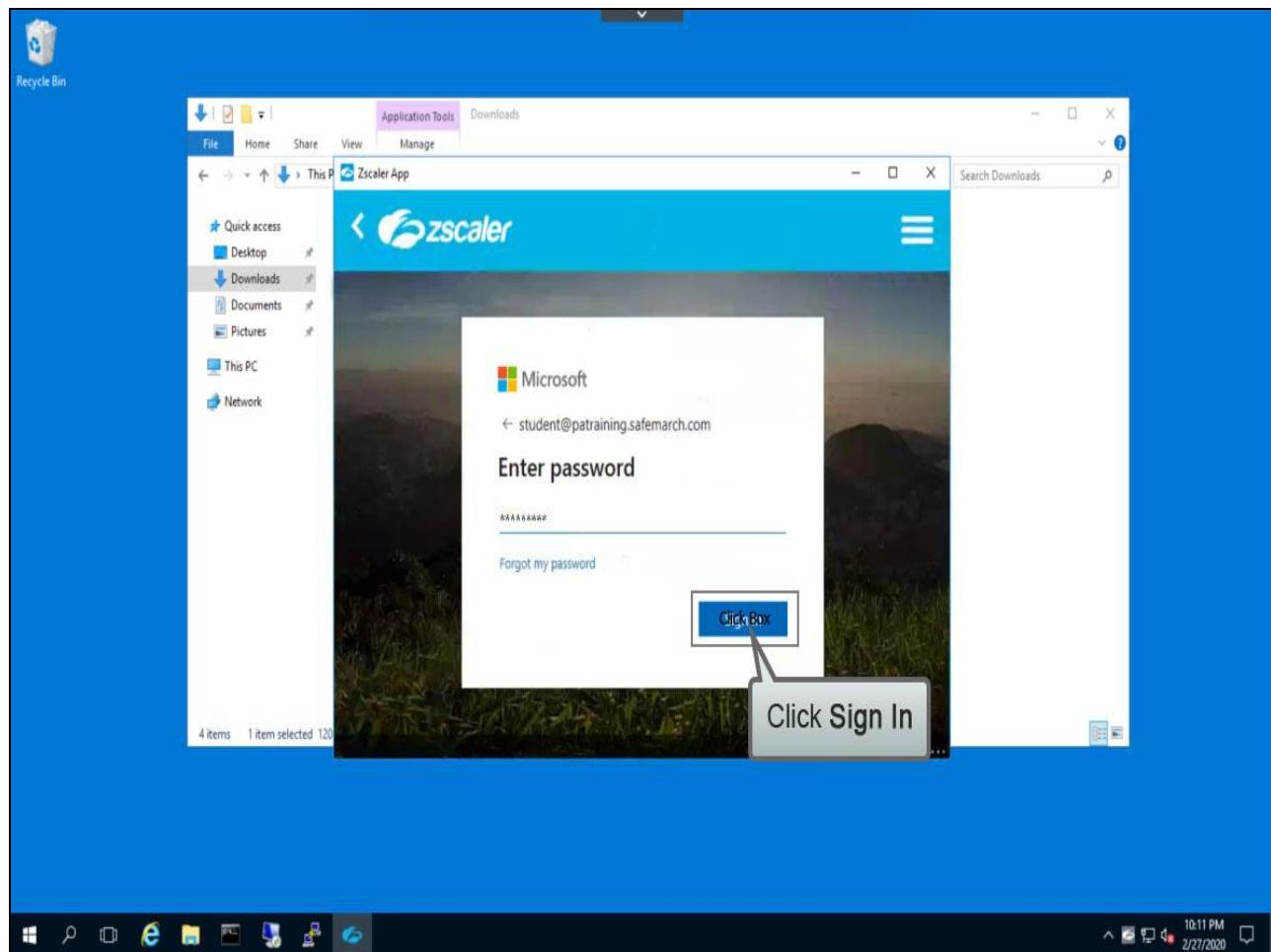
Slide 36 - Slide 36



Slide notes

...and automatically re-direct to the IdP mapped in the Admin Portal to the user **Domain** provided (in this case AAD). Click to login the **student** user, ...

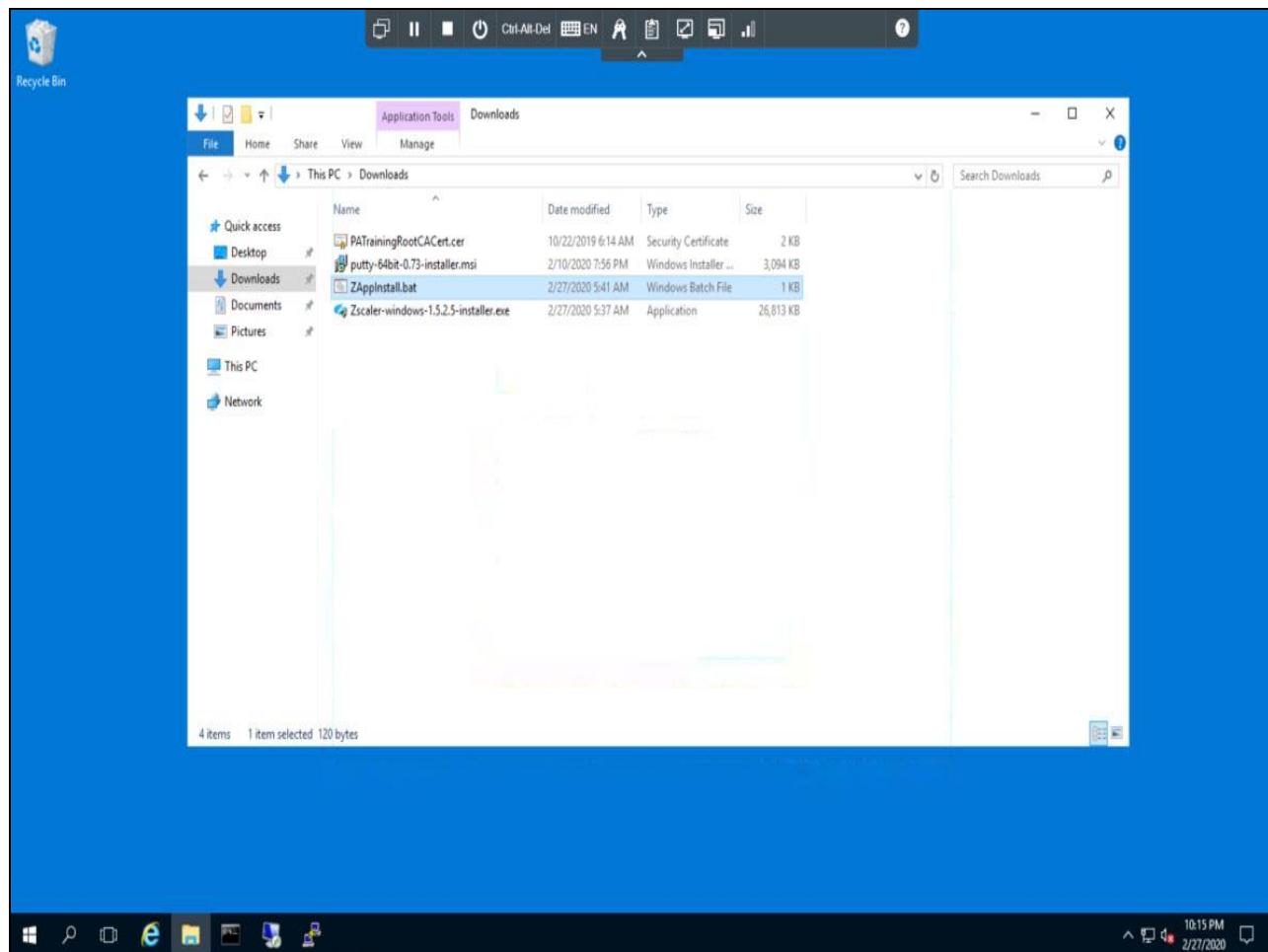
Slide 37 - Slide 37



Slide notes

...and click **Sign in**.

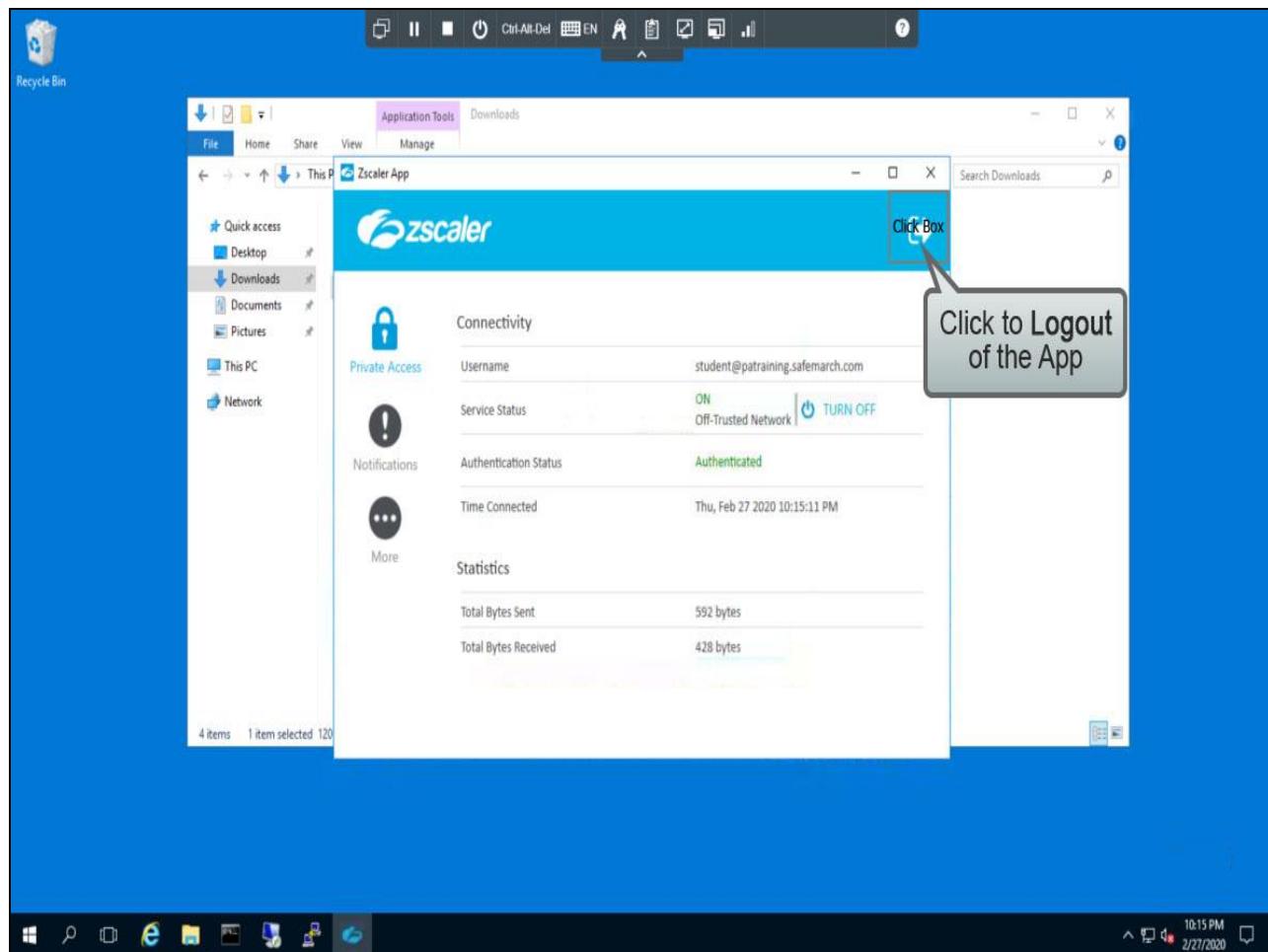
Slide 38 - Slide 38



Slide notes

Once the user signs in, the App will minimize itself to the System Tray.

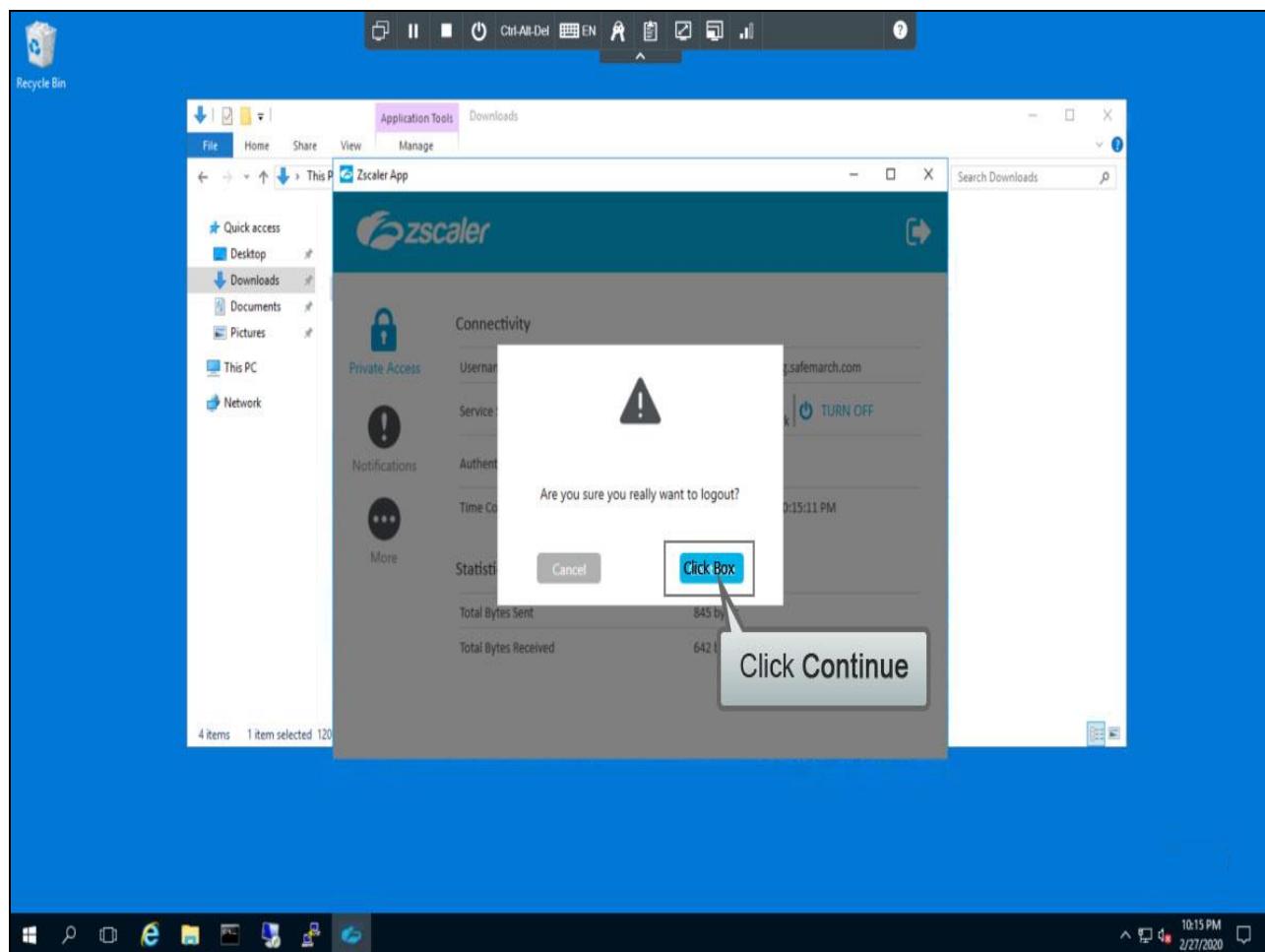
Slide 39 - Slide 39



Slide notes

An important point to note is, that the app on this PC is now tied to the **Domain** specified during install. If you click to logout of the App, ...

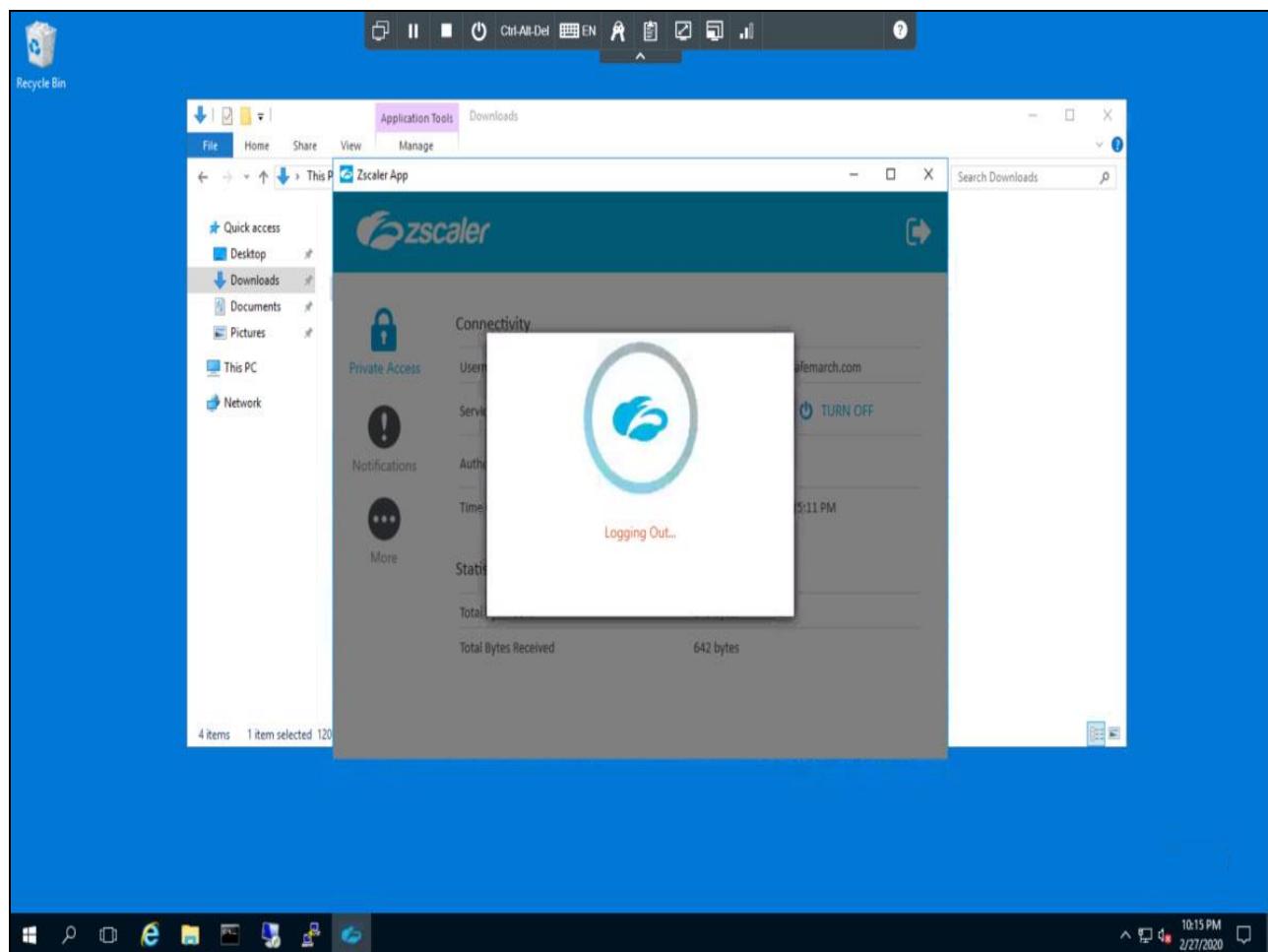
Slide 40 - Slide 40



Slide notes

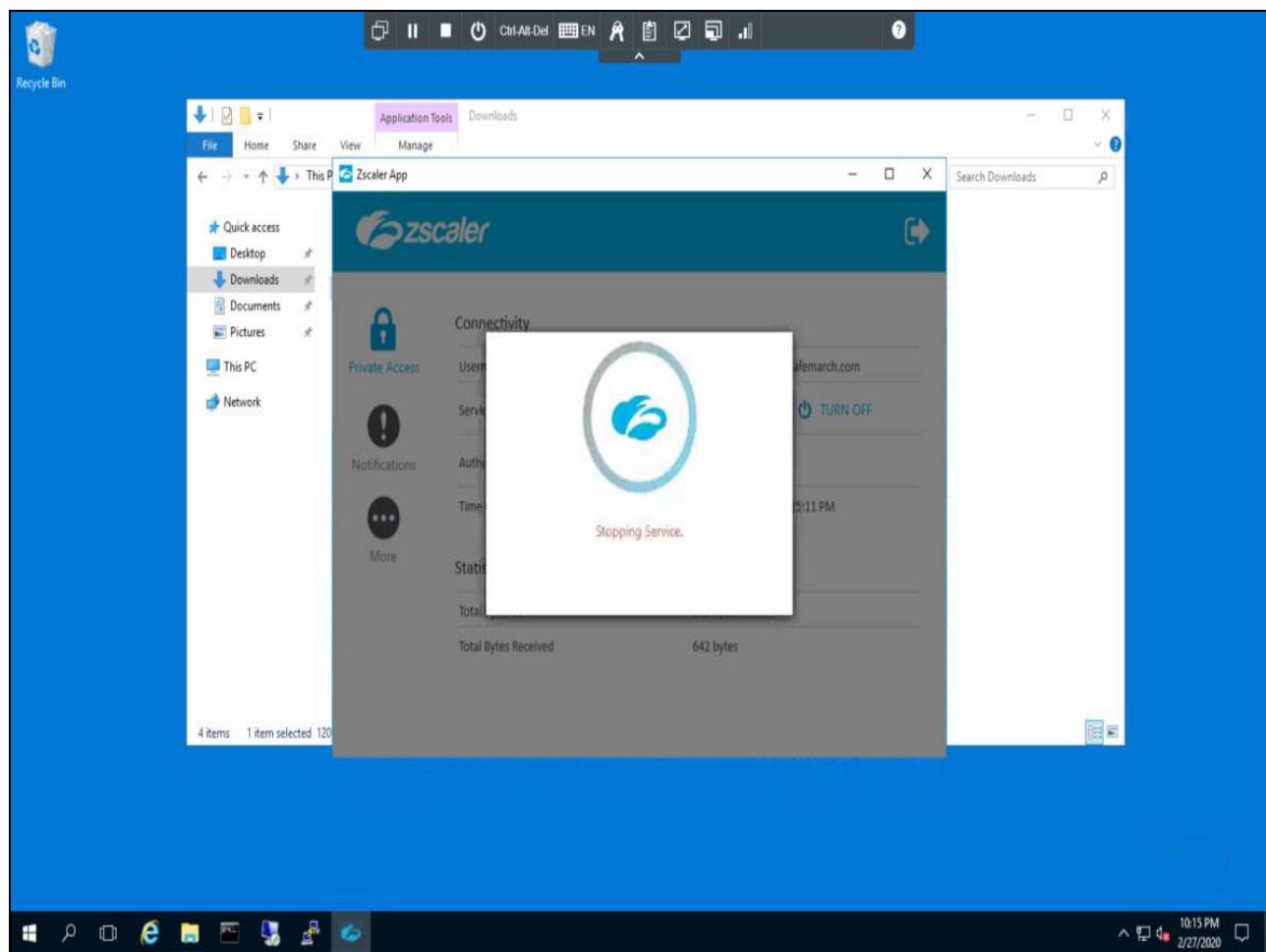
...and click **Continue**, ...

Slide 41 - Slide 41



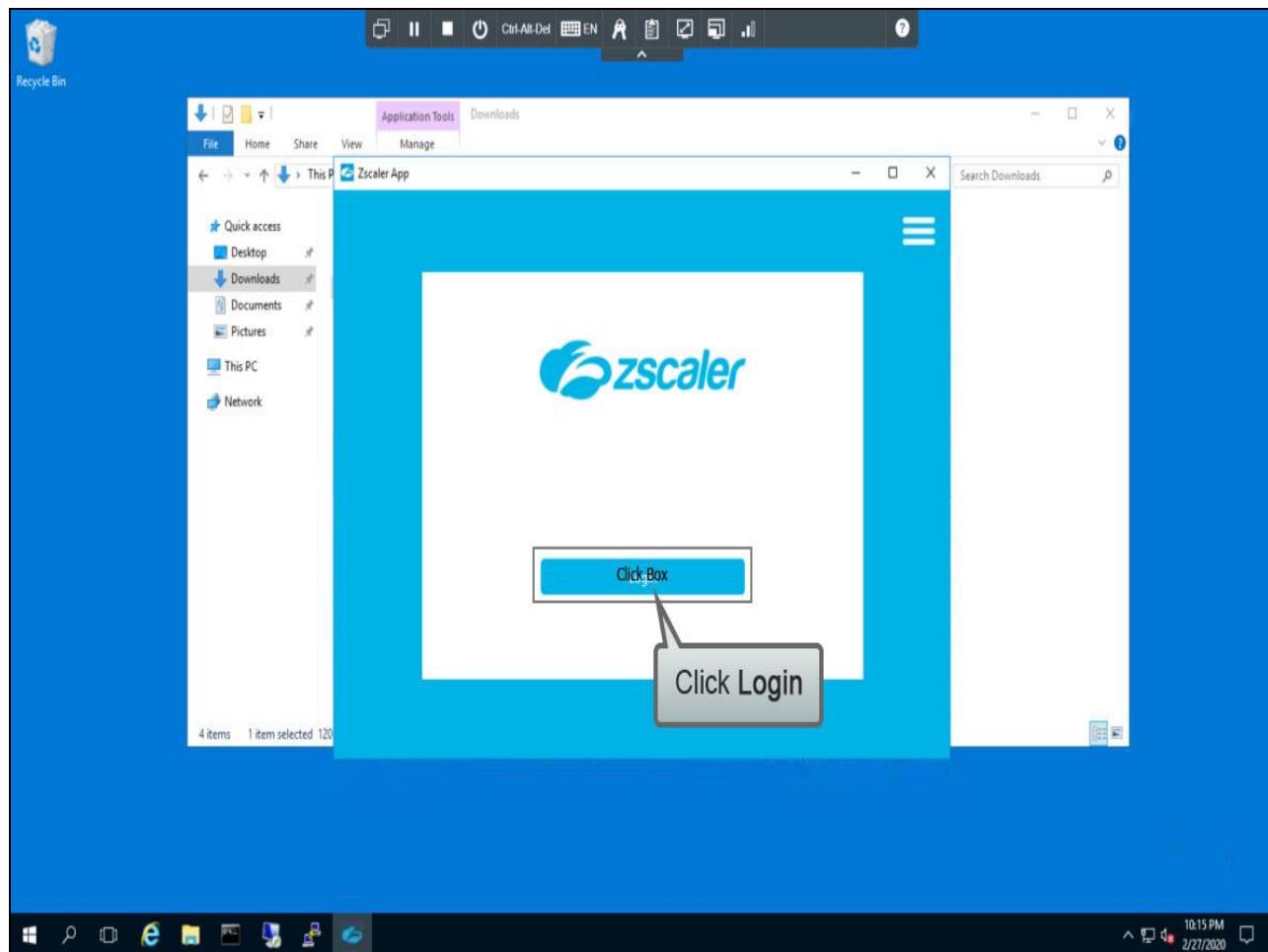
Slide notes

Slide 42 - Slide 42



Slide notes

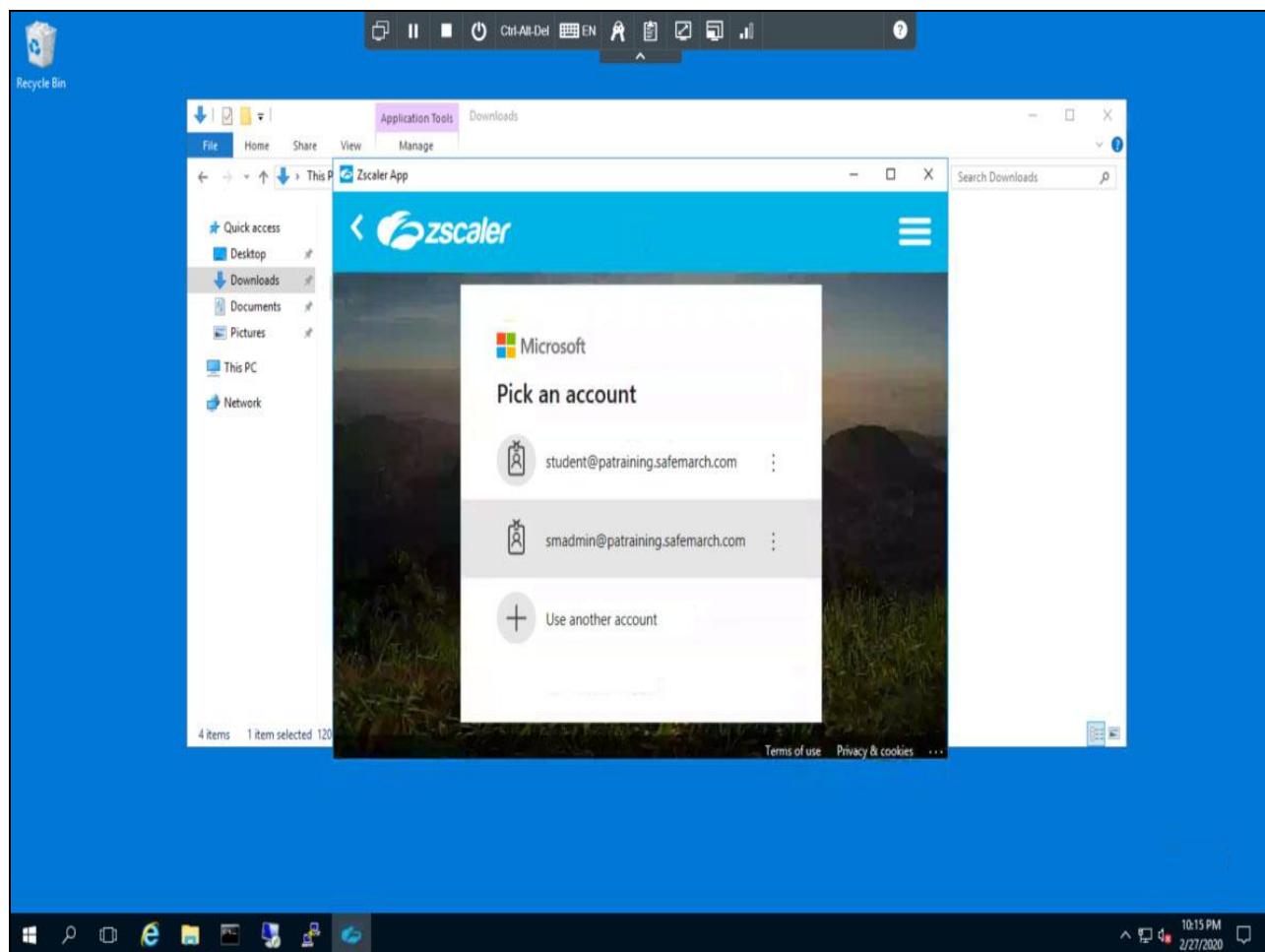
Slide 43 - Slide 43



Slide notes

The only option you have is to click **Login**, ...

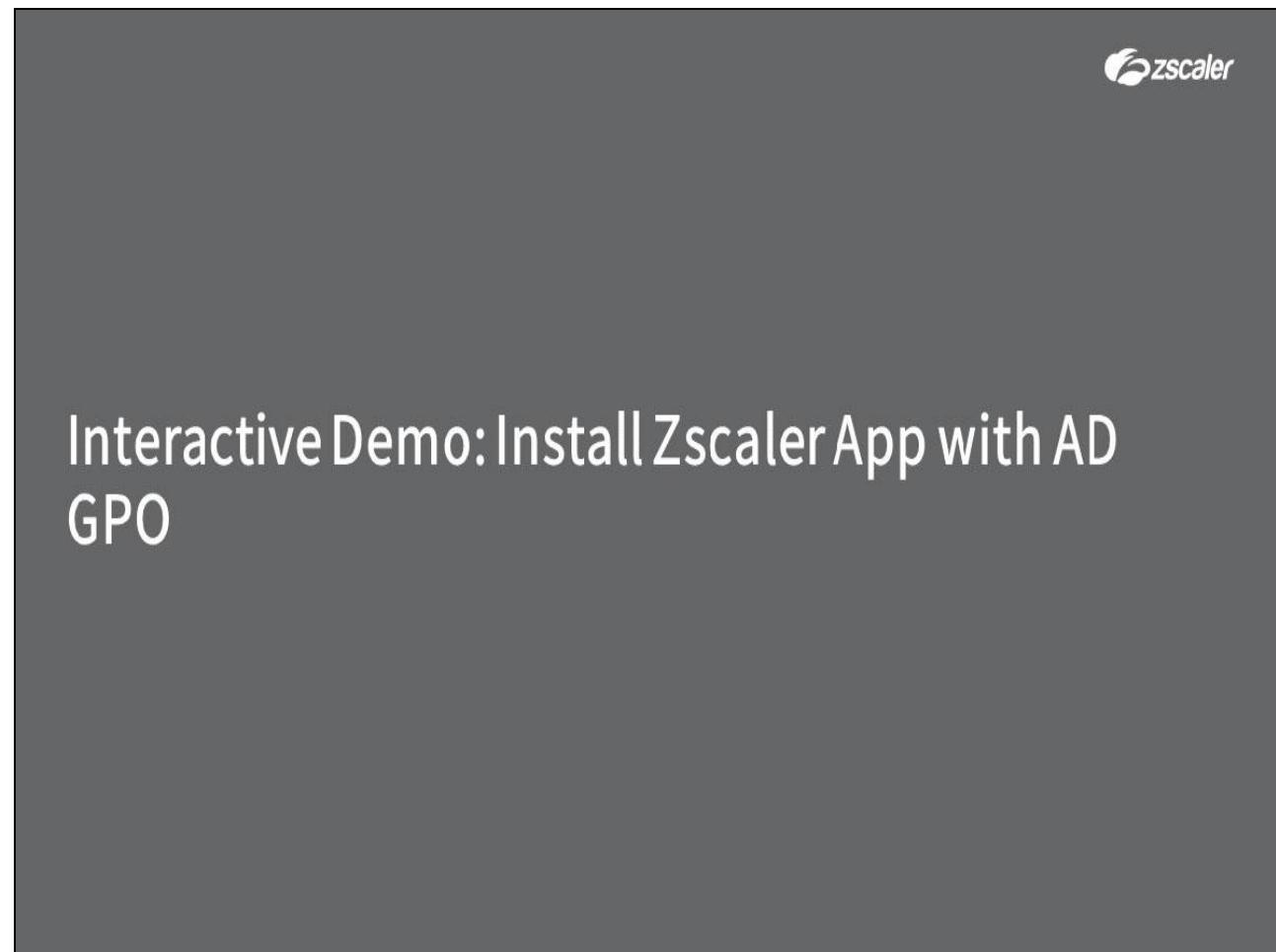
Slide 44 - Slide 44



Slide notes

...which takes you straight back to the IdP associated with the **Domain** specified during install. The end user has no opportunity to specify some other domain and enroll by authenticating to some other IdP.

Slide 45 - Interactive Demo: Installing the Zscaler App with AD GPO



Slide notes

In the final topic we will look at how to push the Zscaler App to Windows PCs using an AD GPO.

This section has been created as an interactive demo to give you a feel for the navigation of the Windows Server Manager UI. You will be asked to select the appropriate menu options to navigate the UI. You may also use the Play control to proceed to the next step.

Slide 46 - Deploying the App: Personal Computers (Windows)



Deploying the App: Personal Computers (Windows)

- Deploy using an Active Directory Group Policy Object (GPO)

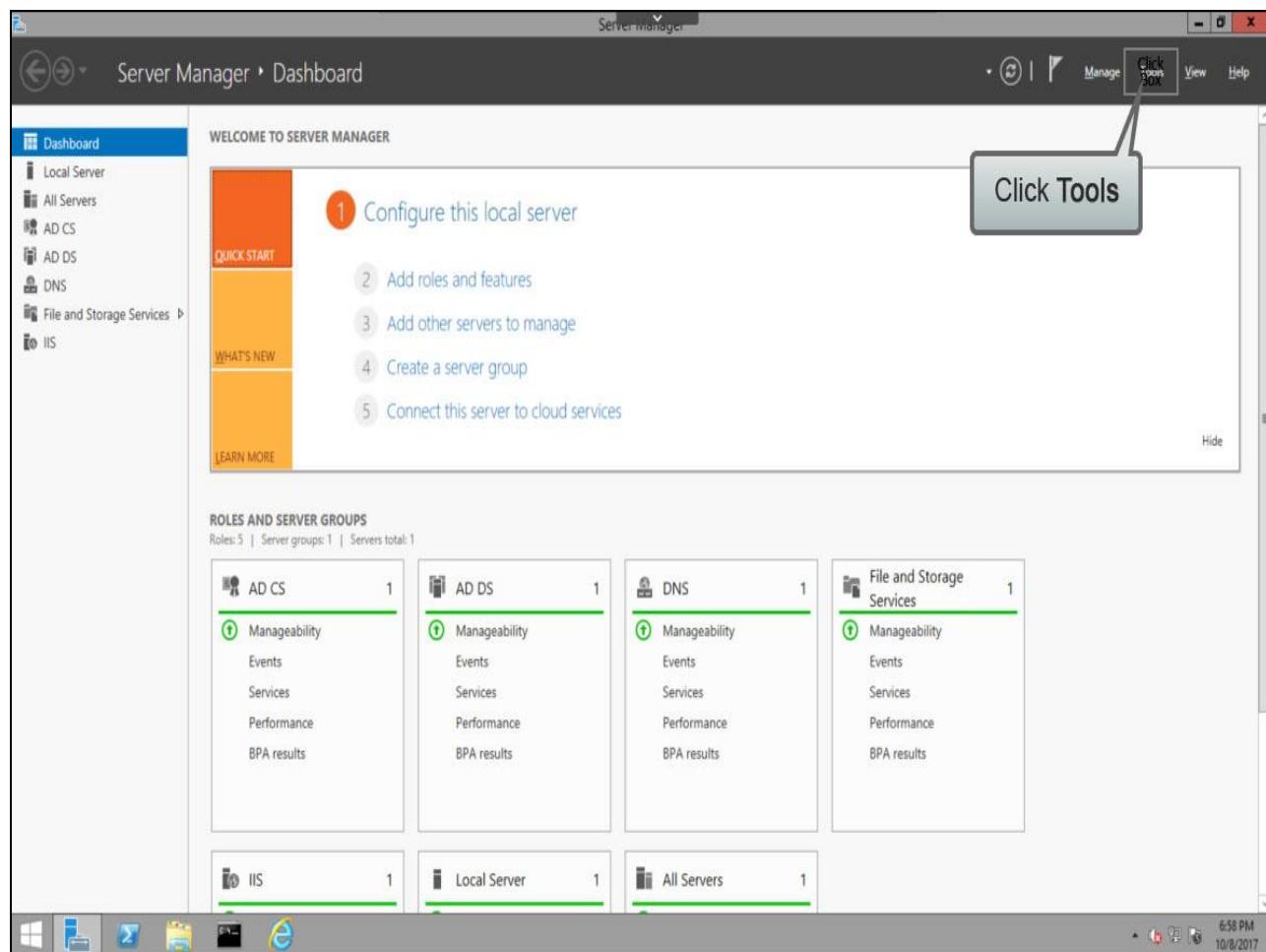
A. Prepare the AD environment

Slide notes

The app may be silently distributed to Windows devices and locked down, to remove the option to disable it, using Active Directory. There are a number of steps required in order to achieve this, and full details are available in the on-line App documentation. In outline you will need to:

- A. First, prepare the AD environment, by creating or designating an Organizational Unit (OU), and adding to it the Users and Computers that are to receive the app.

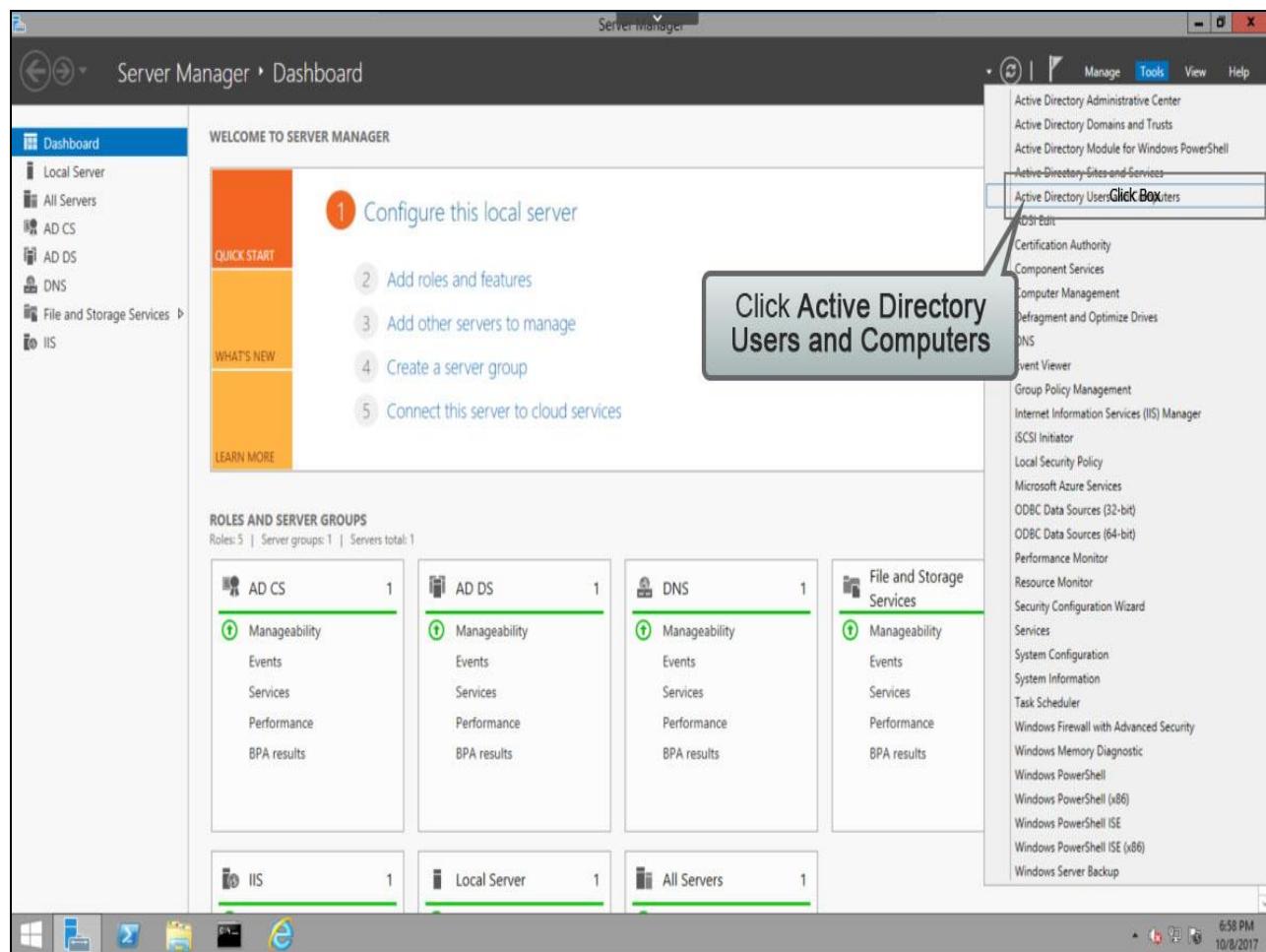
Slide 47 - Slide 47



Slide notes

To do this, go to the **Server Manager Dashboard** of the Windows Active Directory (AD) server where you need to create the Organizational Unit (OU). Click on the **Tools** menu, ...

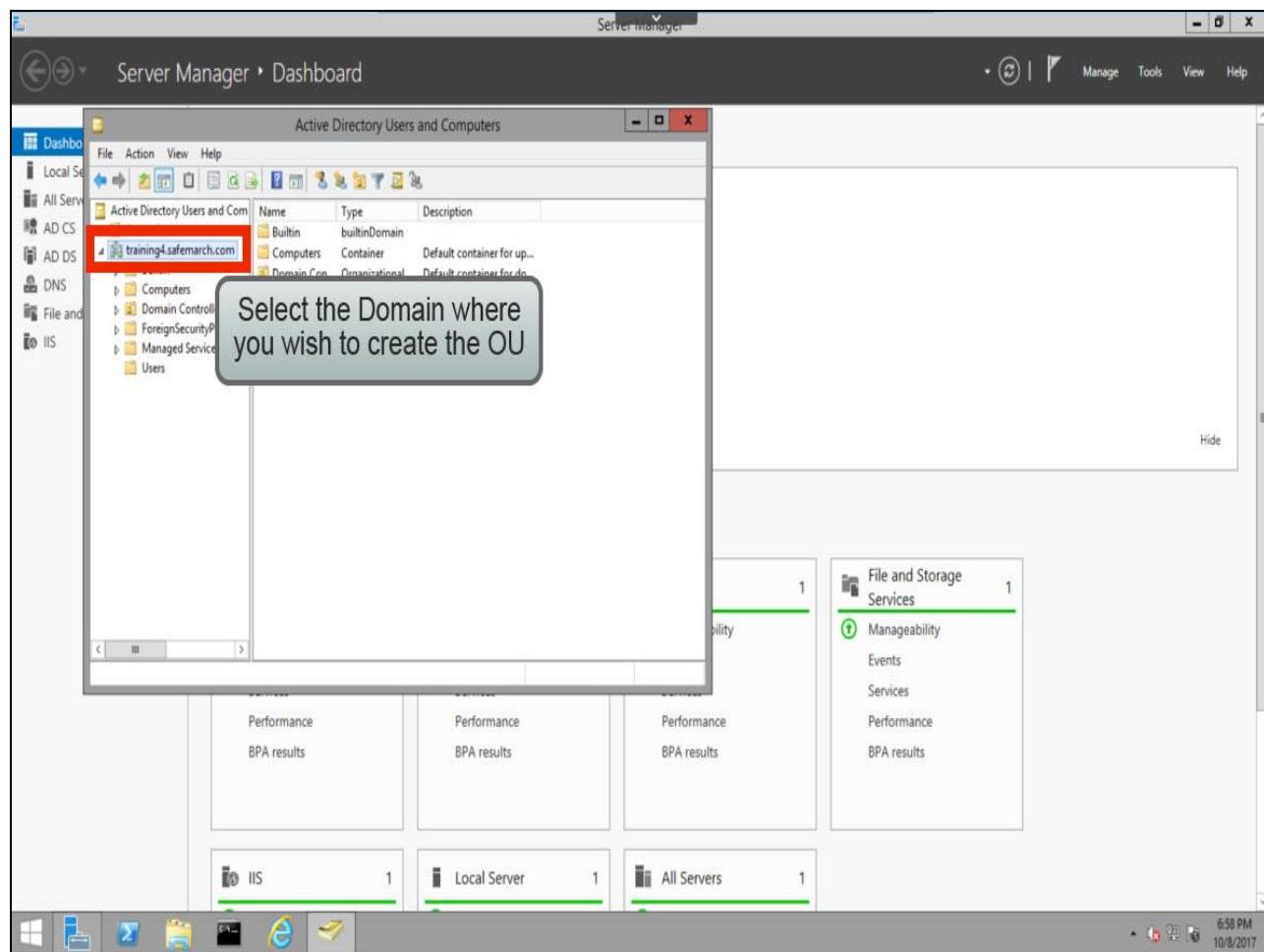
Slide 48 - Slide 48



Slide notes

...then click Active Directory Users and Computers.

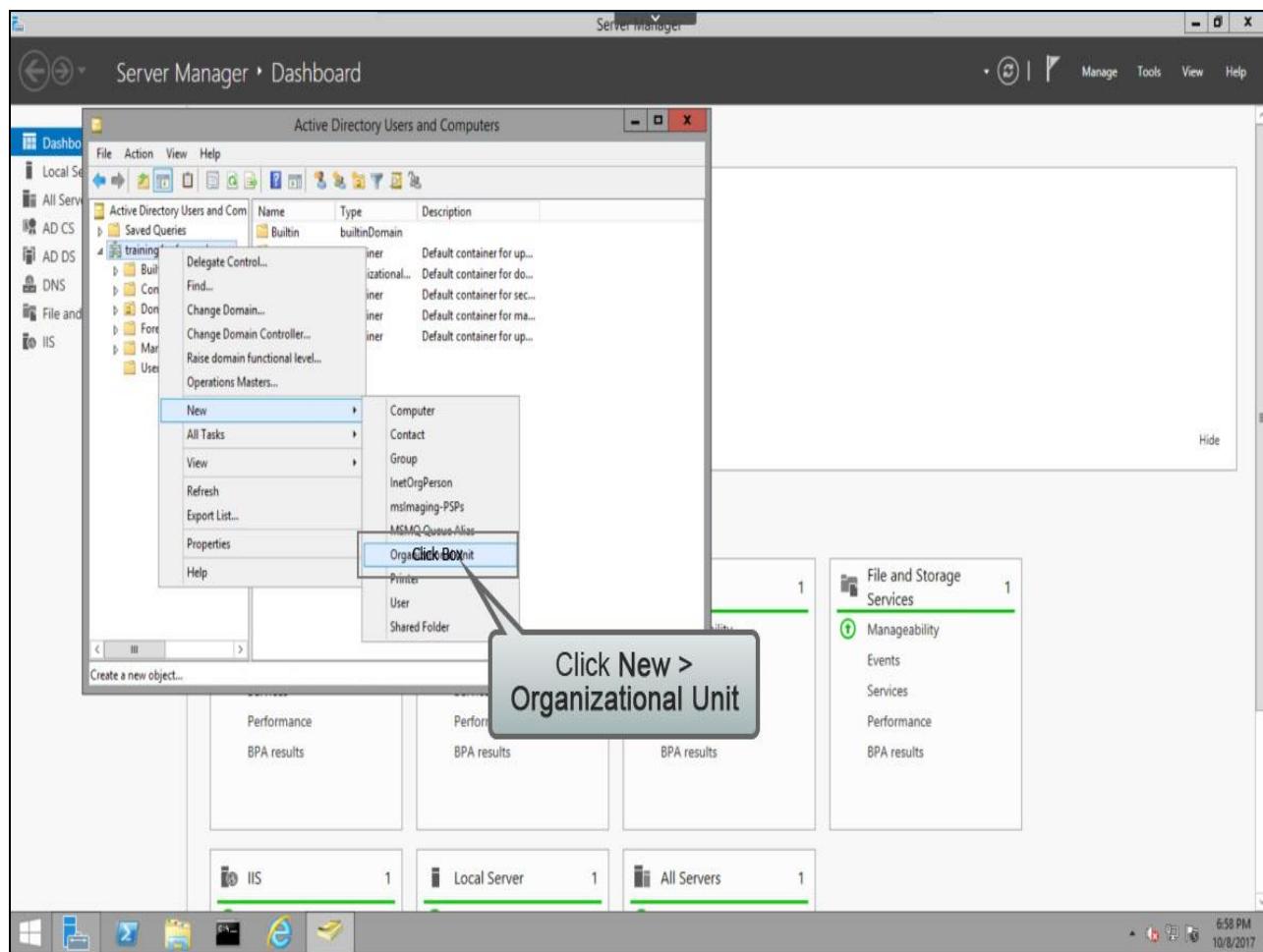
Slide 49 - Slide 49



Slide notes

Click on the **Domain** where you wish to create the OU, to select it, ...

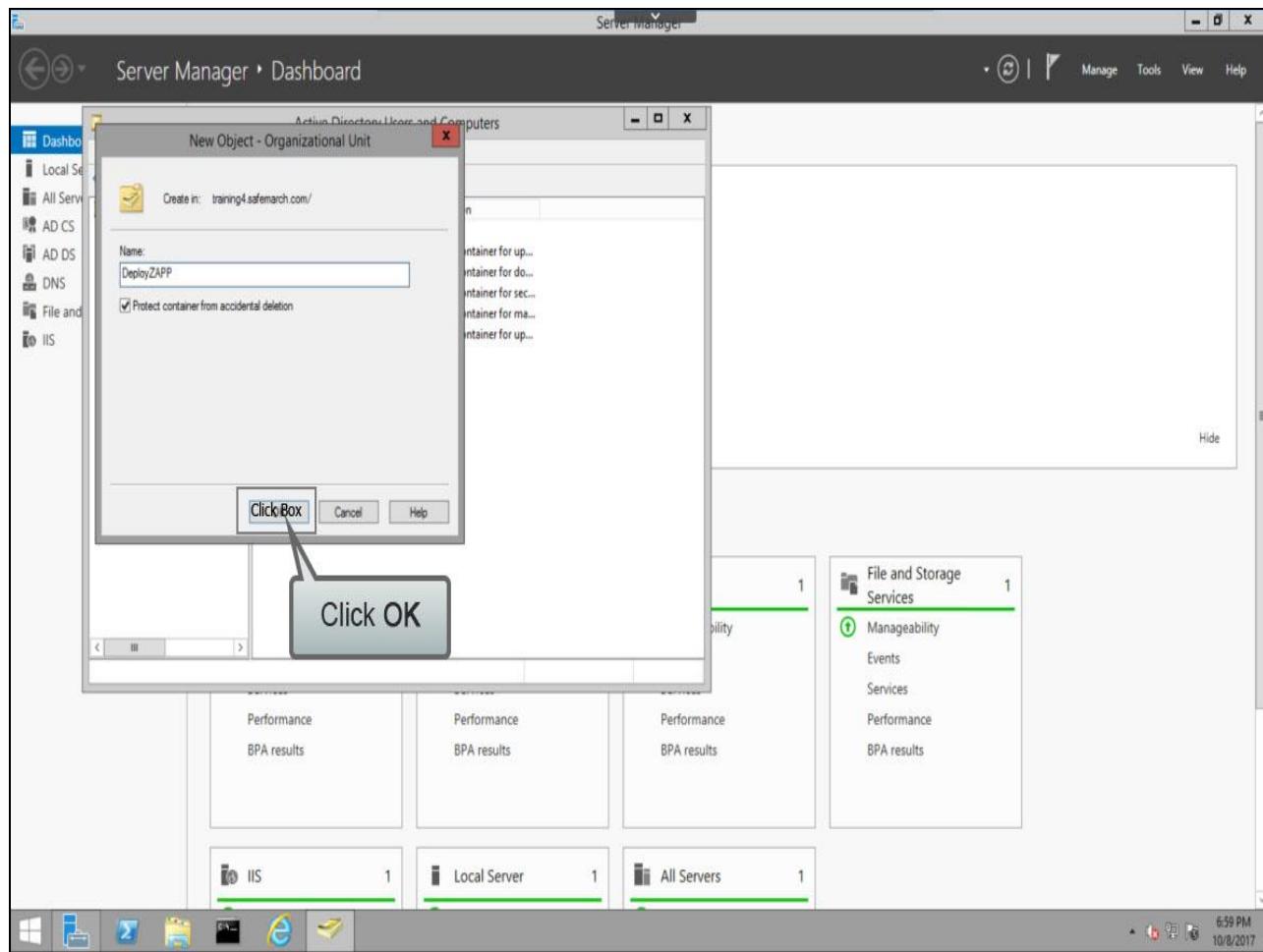
Slide 50 - Slide 50



Slide notes

...right click and select New > Organizational Unit.

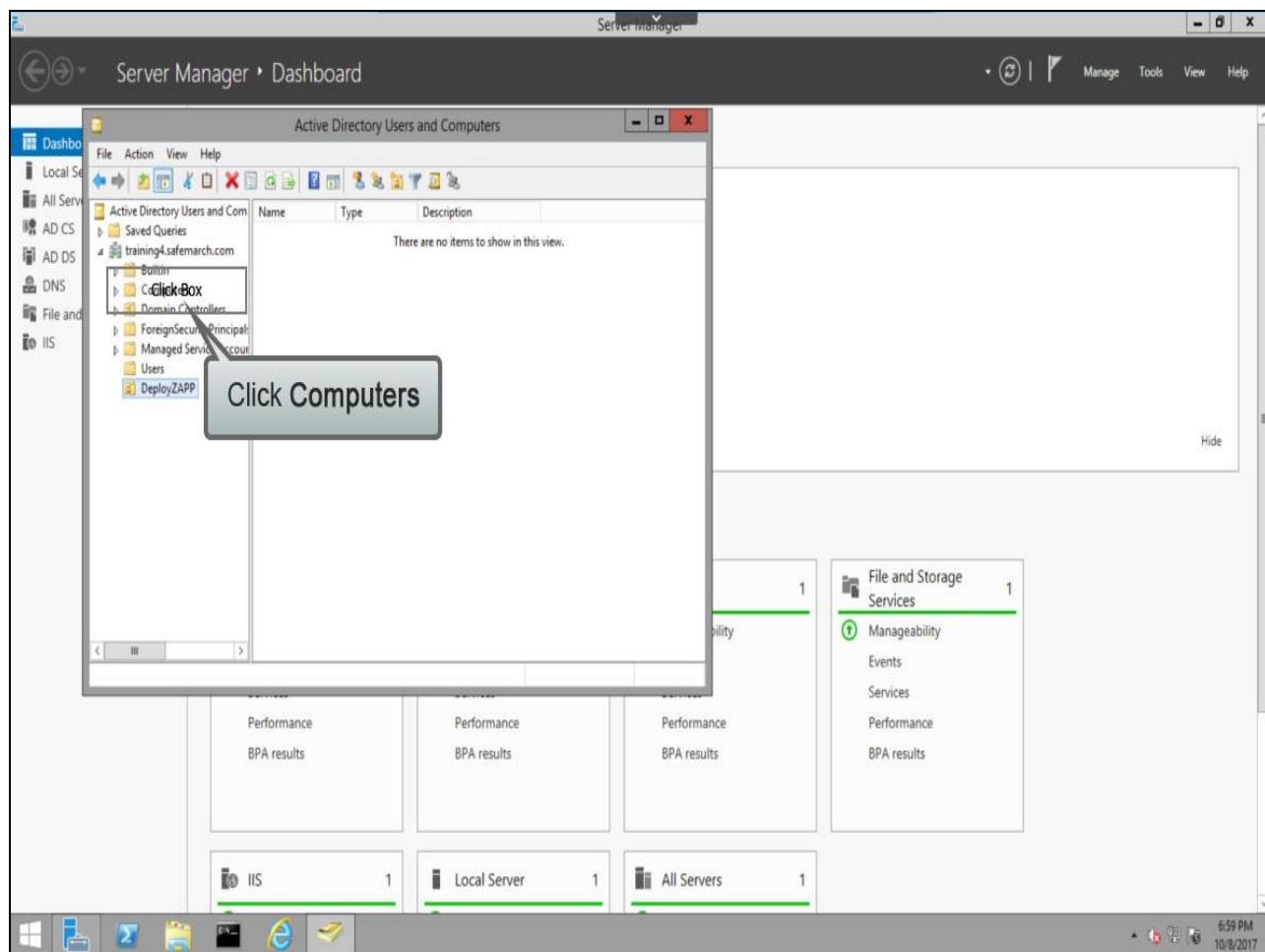
Slide 51 - Slide 51



Slide notes

Give the OU a name and click **OK**.

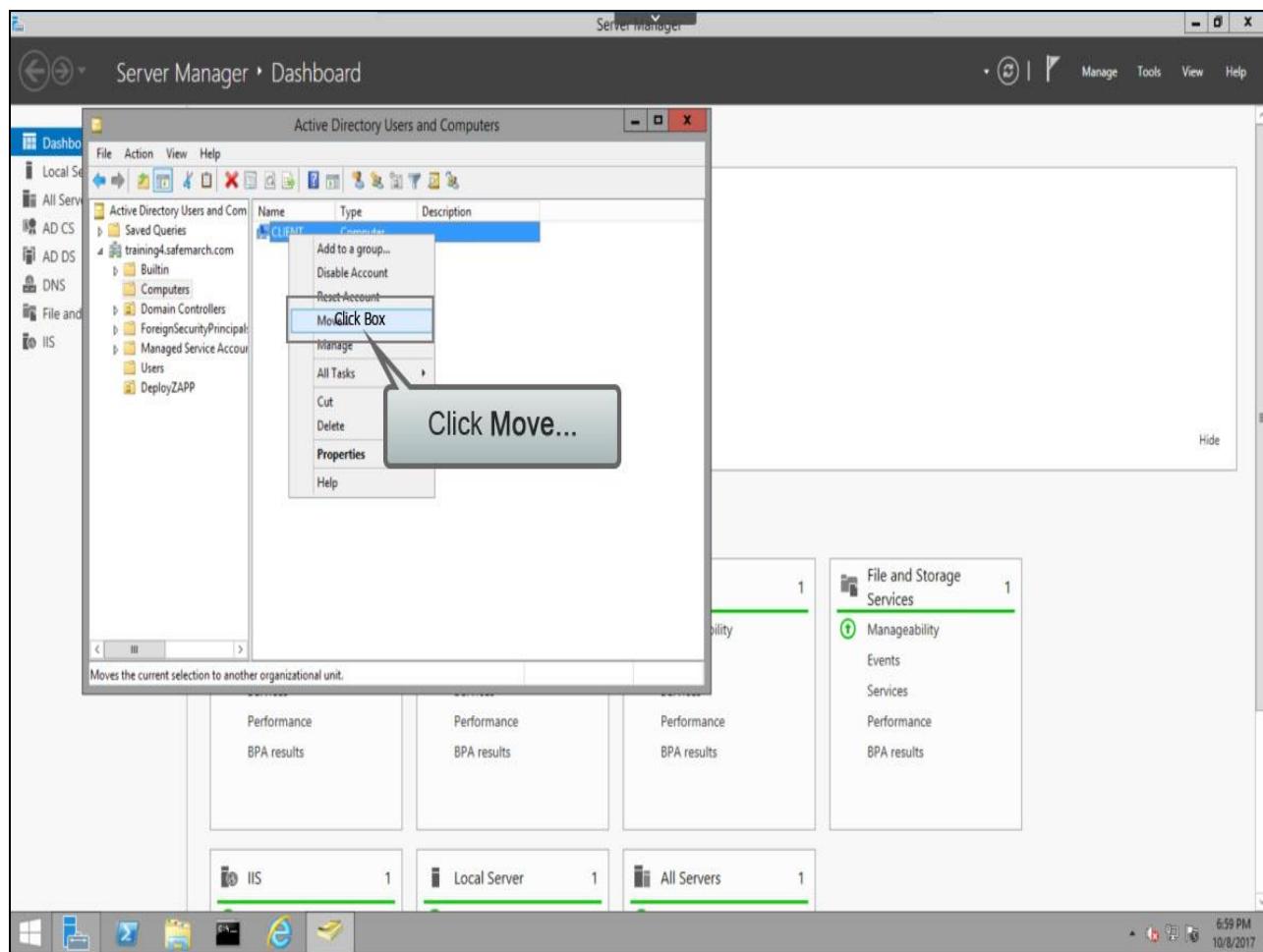
Slide 52 - Slide 52



Slide notes

You now need to move the **Computers** and **Users** that need the Zscaler App installed on them into this new OU. To move a **Computer**, click **Computers**, ...

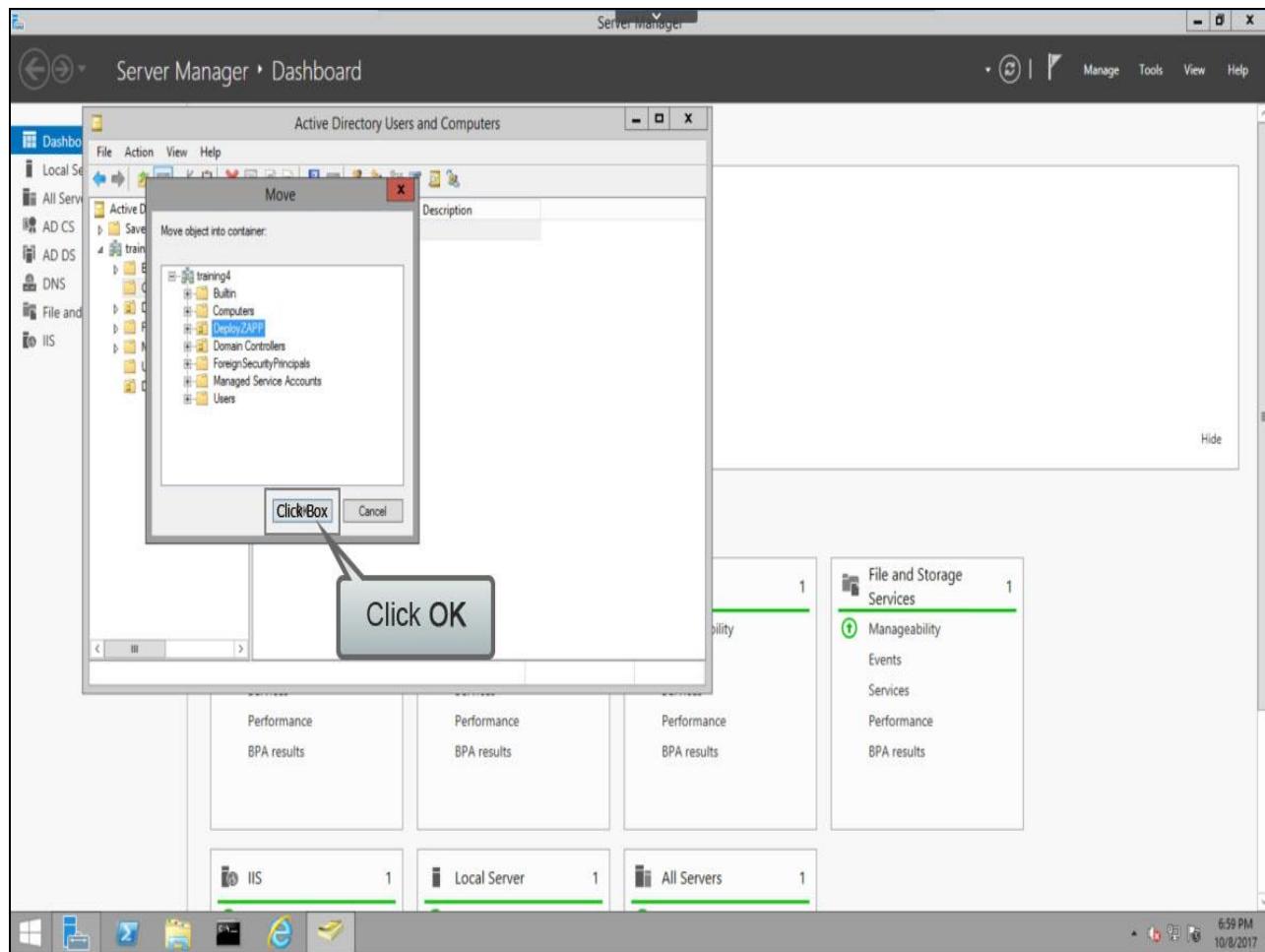
Slide 53 - Slide 53



Slide notes

...select the computer to move, right click it, and select the **Move...** option.

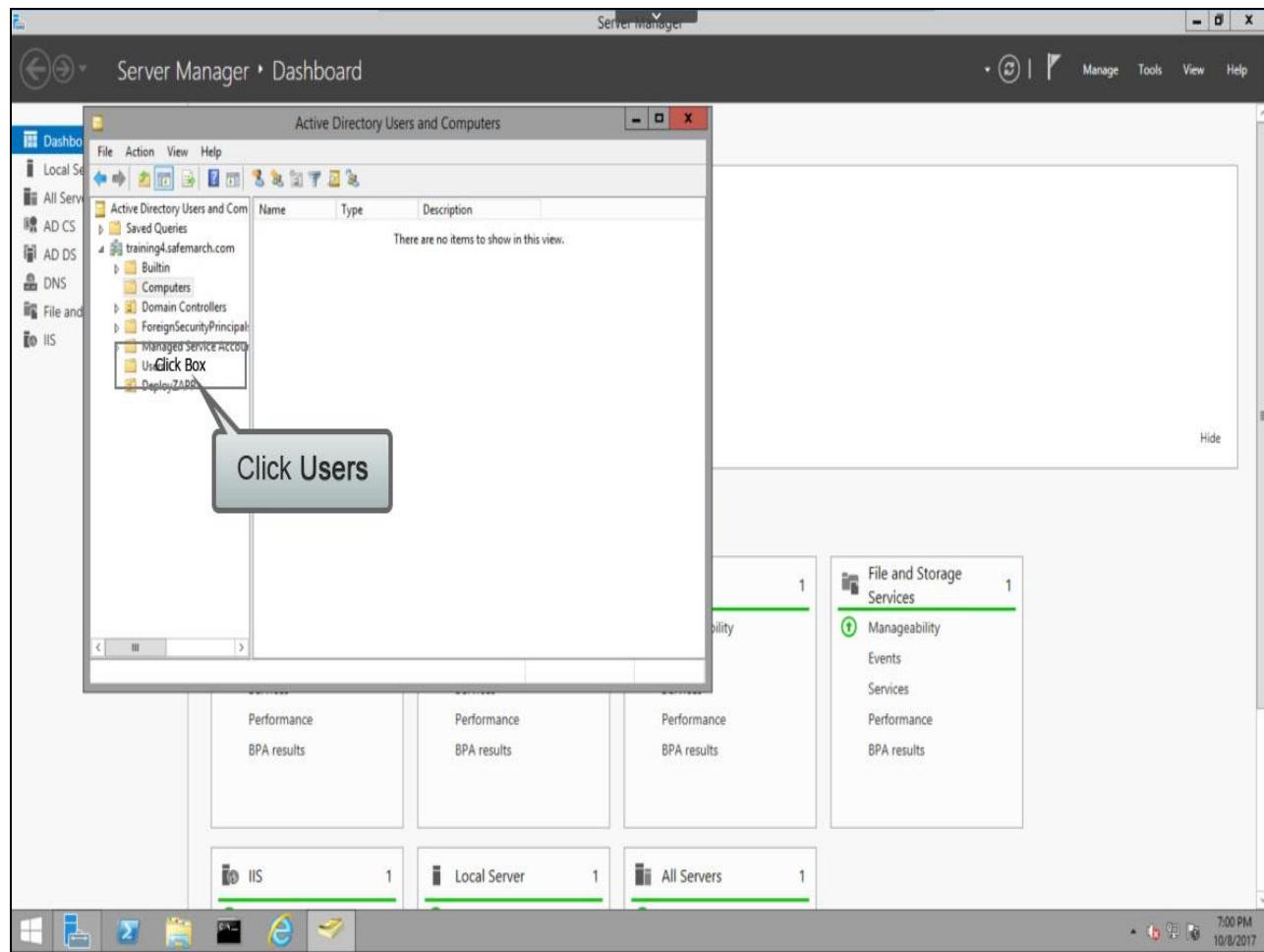
Slide 54 - Slide 54



Slide notes

Select the OU that you just created and click OK.

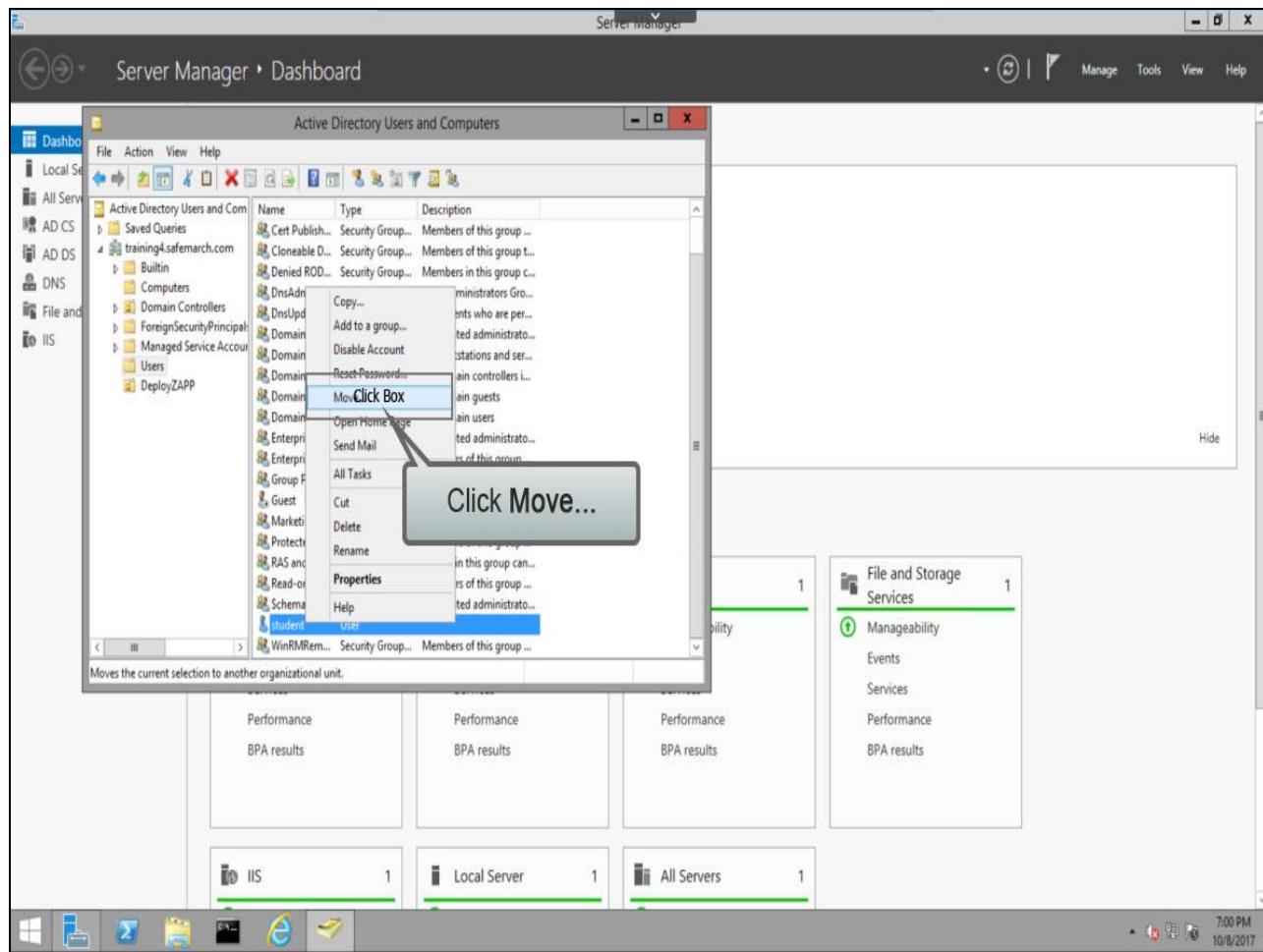
Slide 55 - Slide 55



Slide notes

To move a User, click on the Users OU, ...

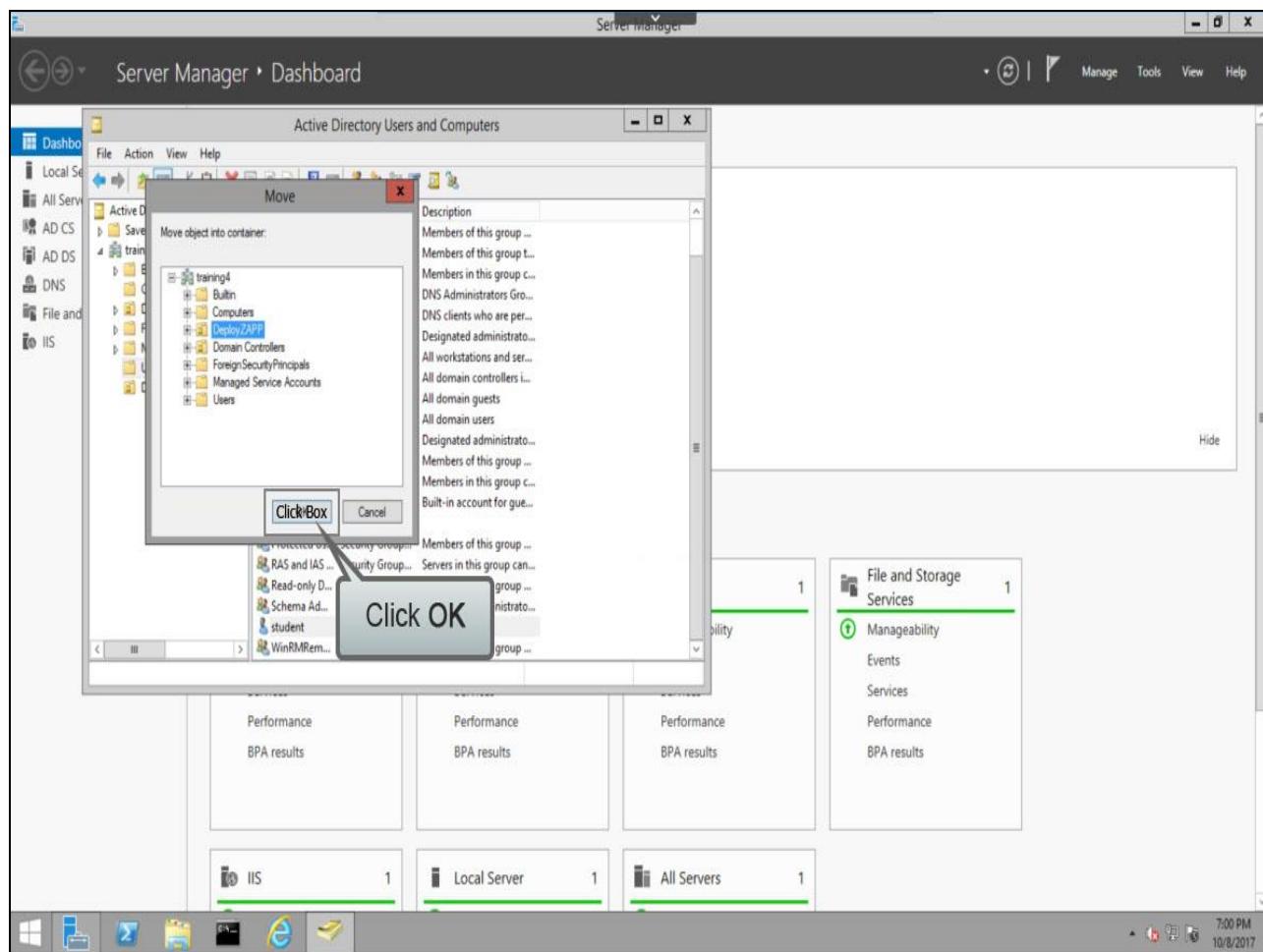
Slide 56 - Slide 56



Slide notes

...find and select the correct user or users, right click, and select **Move....**

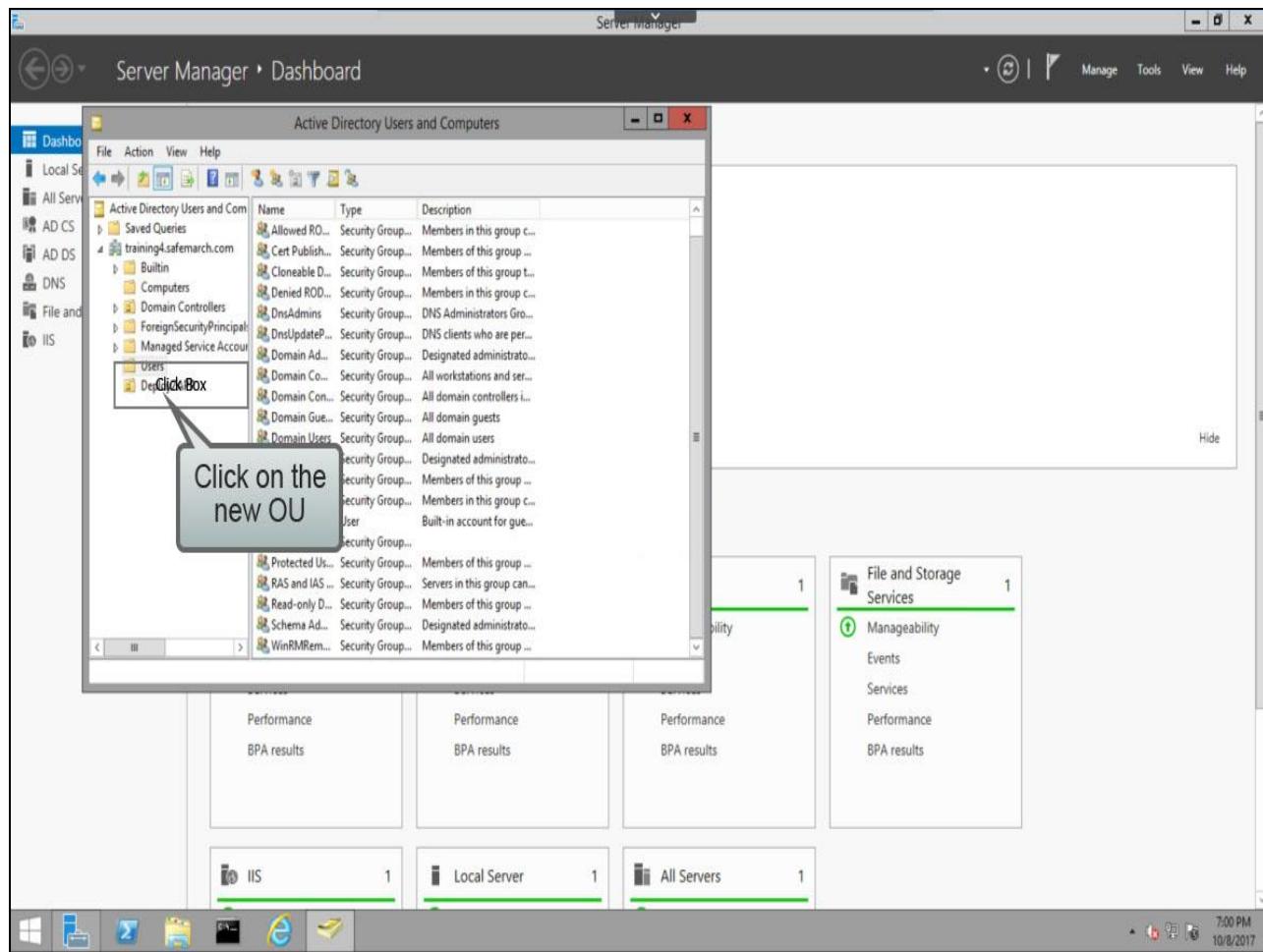
Slide 57 - Slide 57



Slide notes

Select the correct OU and click OK.

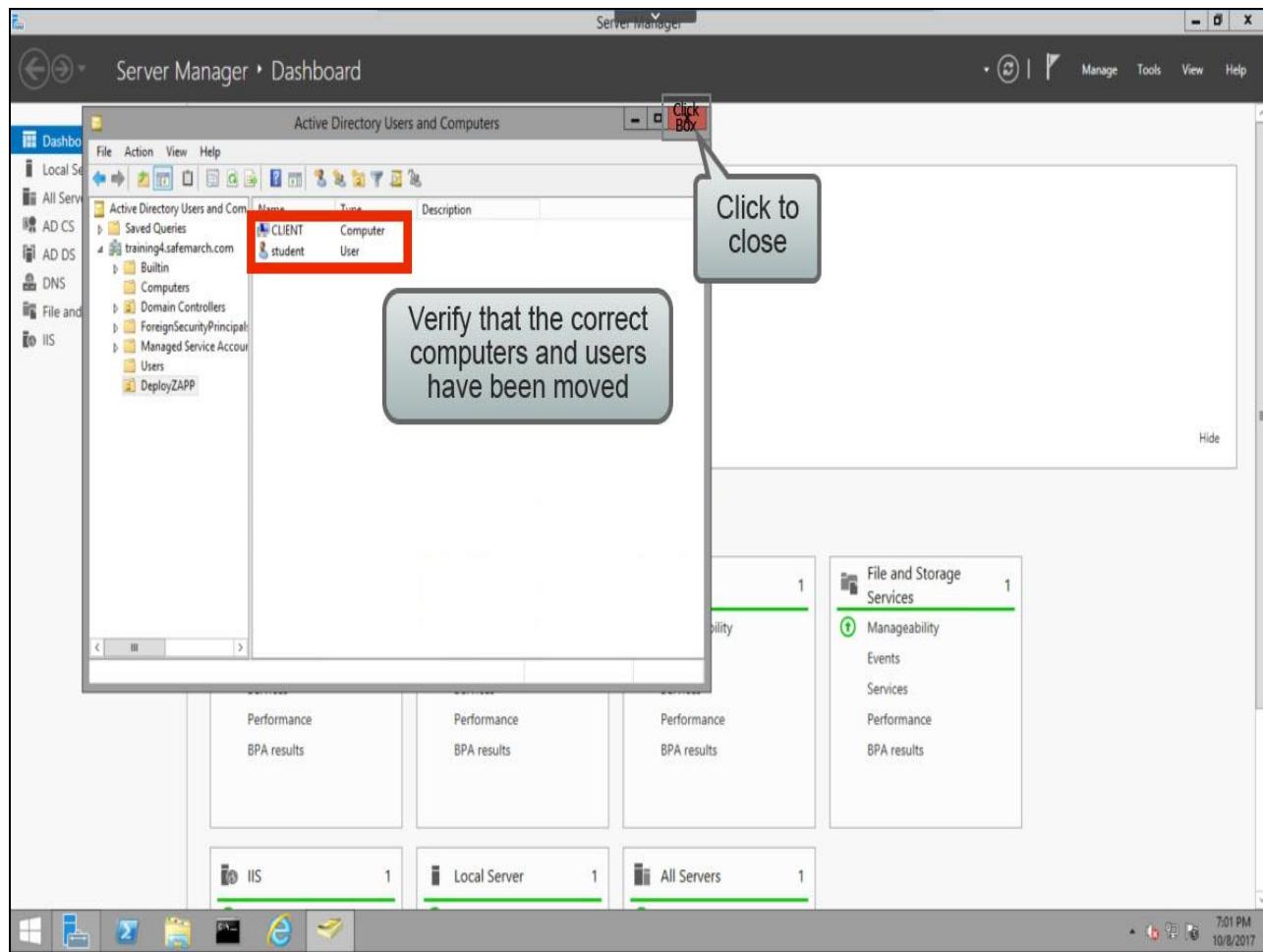
Slide 58 - Slide 58



Slide notes

Click on the new OU to select it, ...

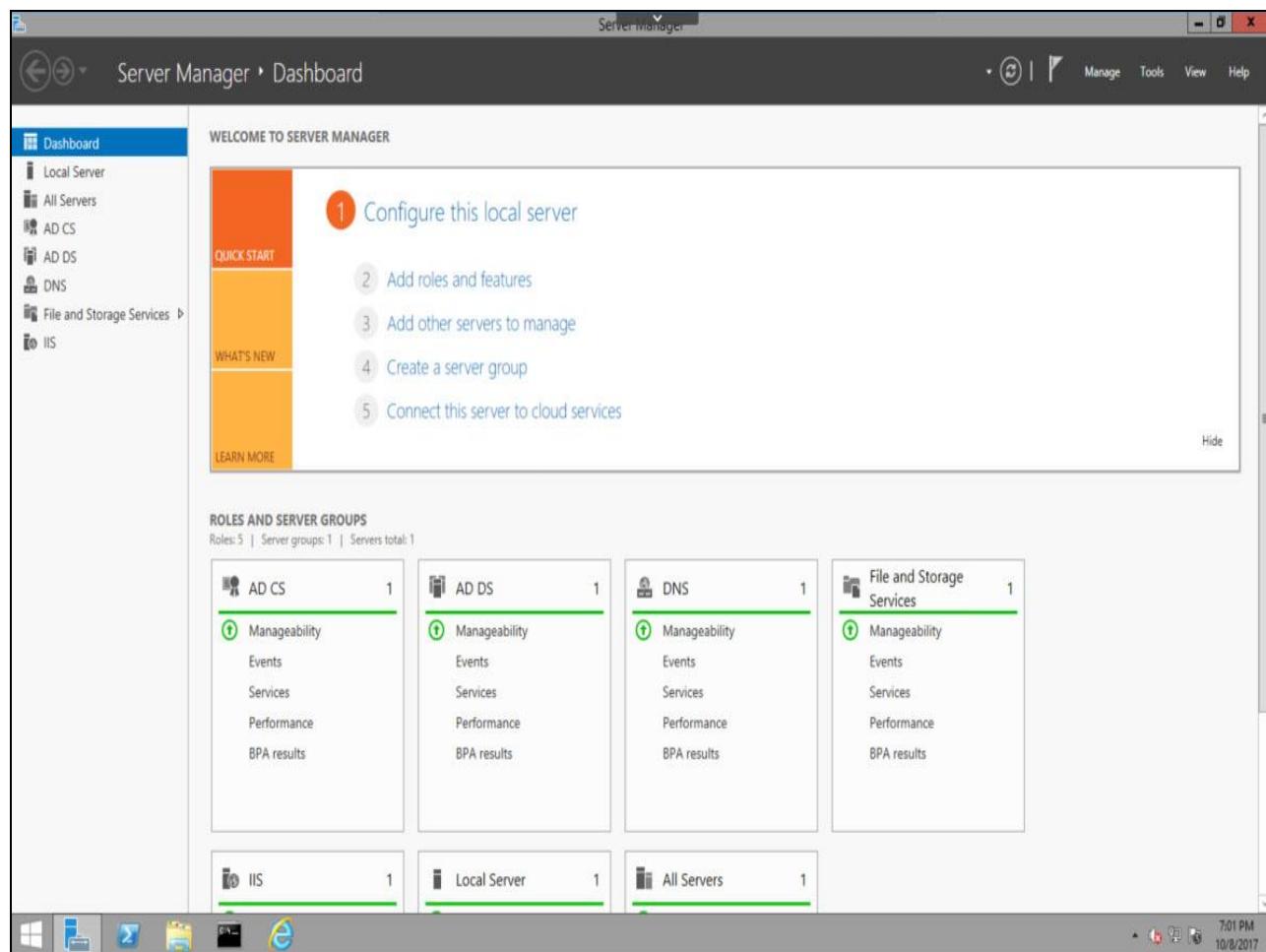
Slide 59 - Slide 59



Slide notes

...and check that the correct **Computers** and **Users** have been moved to it. Then click the X at top right to close the **Active Directory Users and Computers** window.

Slide 60 - Slide 60



Slide notes

Slide 61 - Deploying the App: Personal Computers (Windows)



Deploying the App: Personal Computers (Windows)

- Deploy using an Active Directory Group Policy Object (GPO)

A. Prepare the AD environment

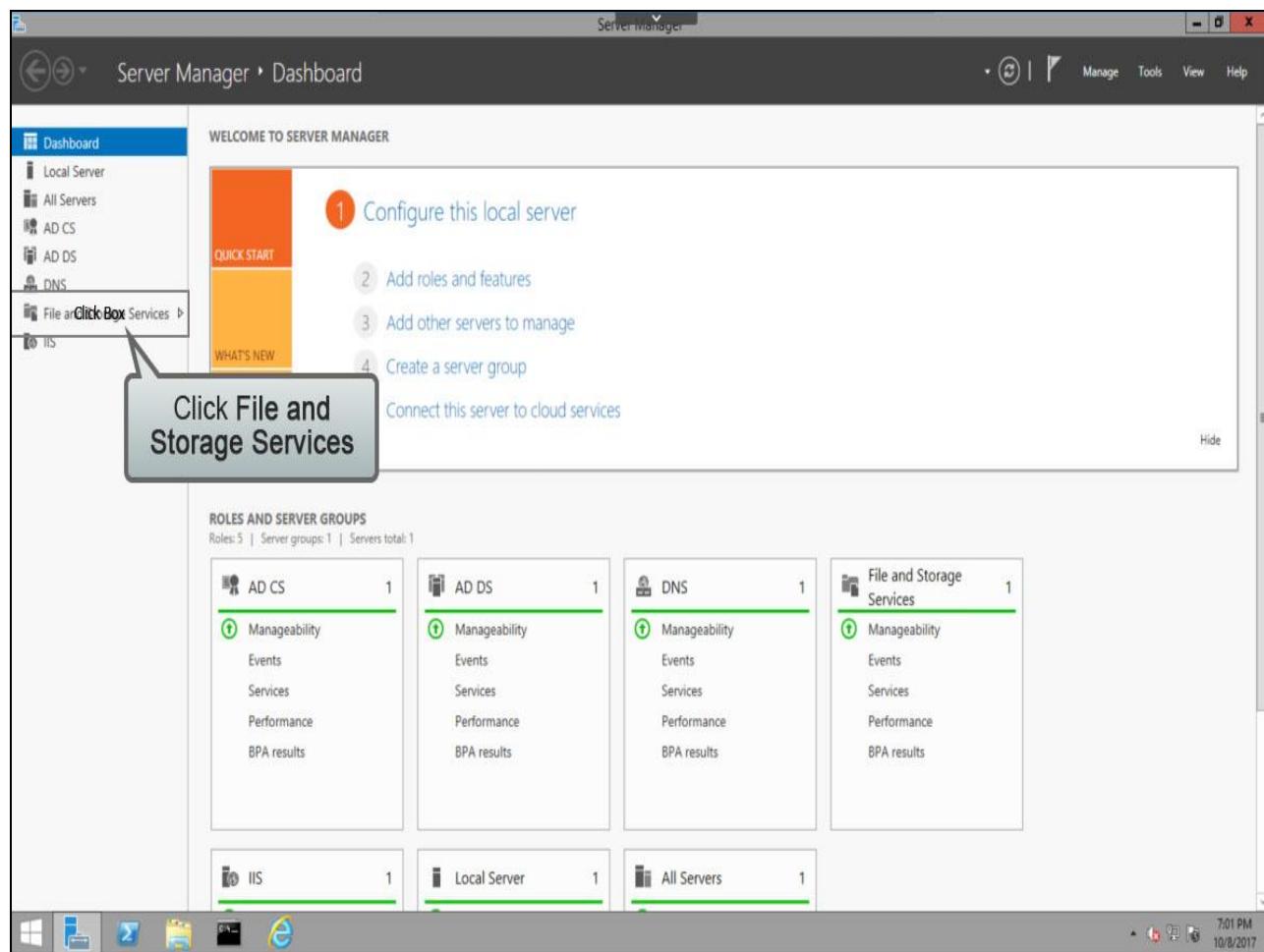
B. Place App install file on a network share the users can reach



Slide notes

- B. The next step is to create or designate a network share and copy the Zscaler App installer to it. The **Computers** and **Users** to receive the app must have access to this share.

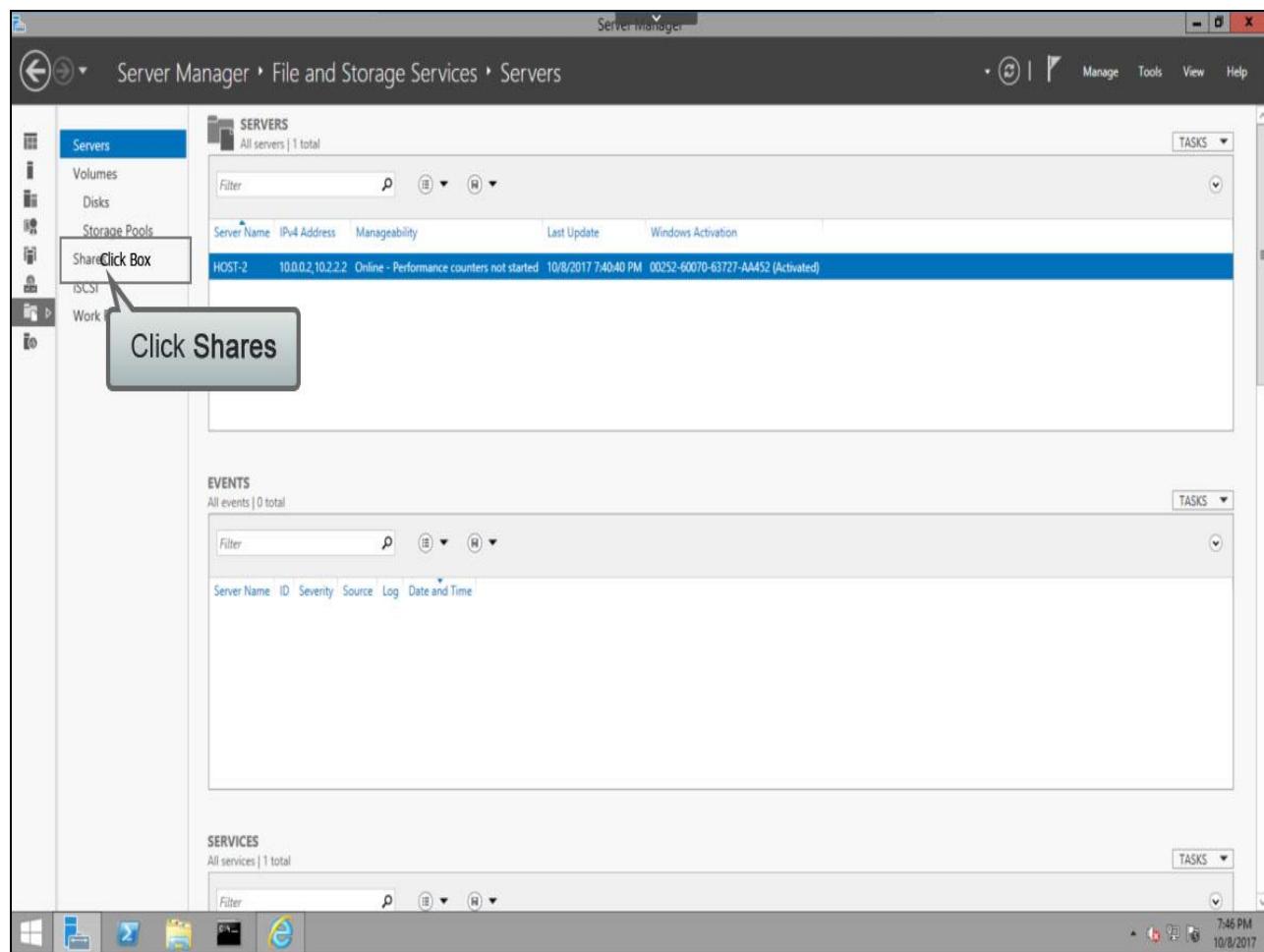
Slide 62 - Slide 62



Slide notes

To create a share for the installer files, from the **Server Manager Dashboard** click **File and Storage Services**, ...

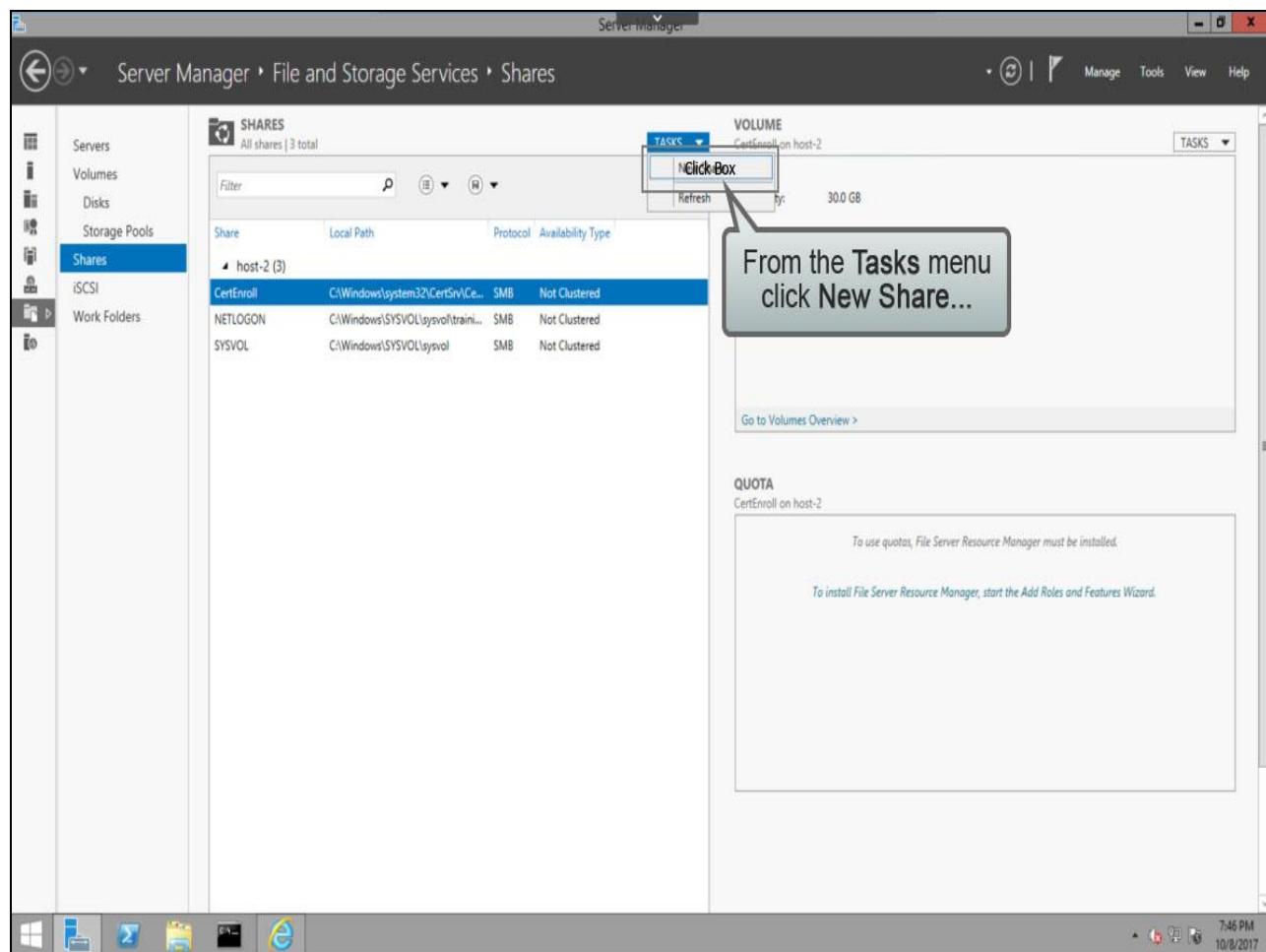
Slide 63 - Slide 63



Slide notes

...click on Shares, ...

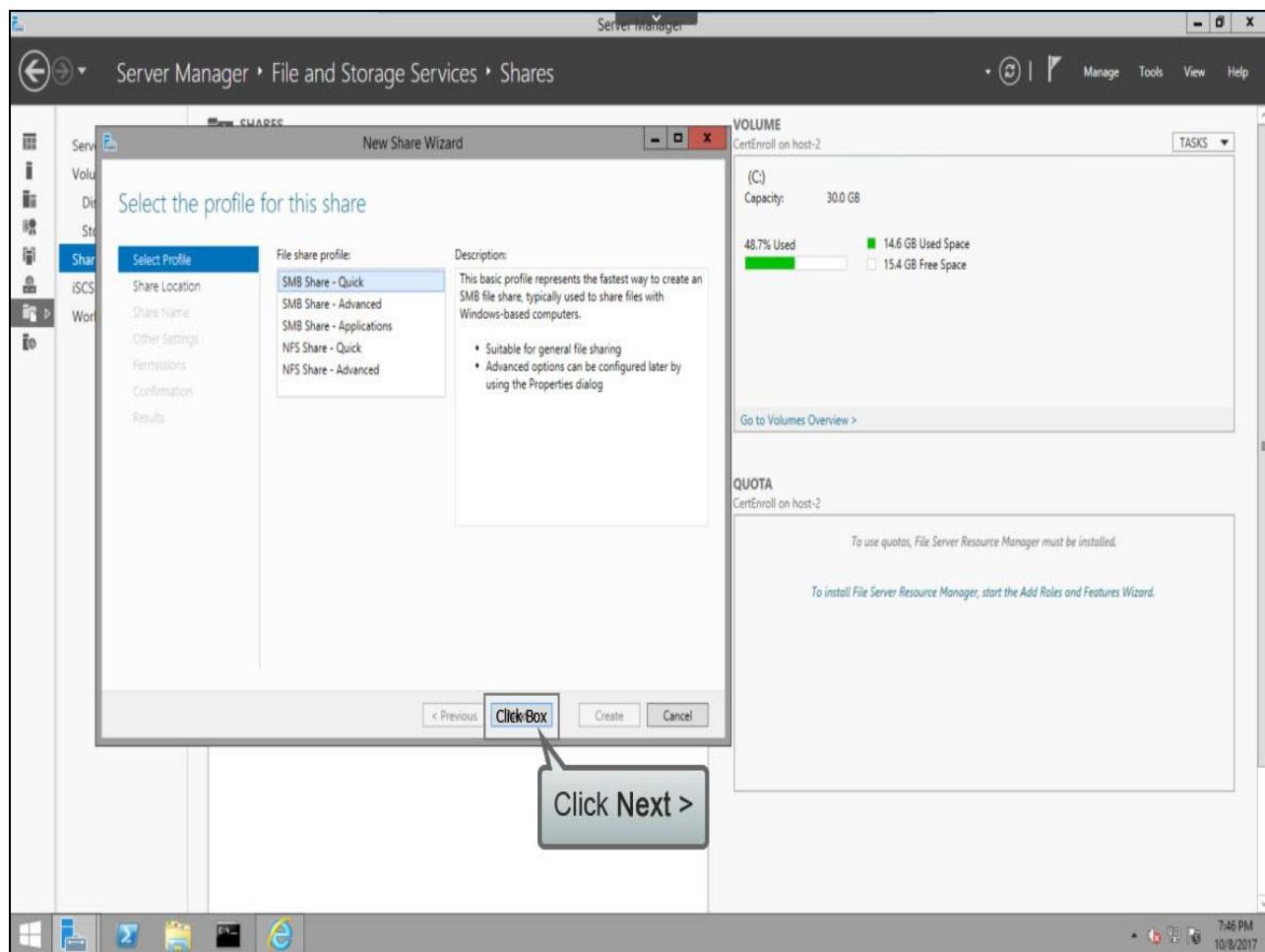
Slide 64 - Slide 64



Slide notes

...then from the **Tasks** menu, click **New Share....**

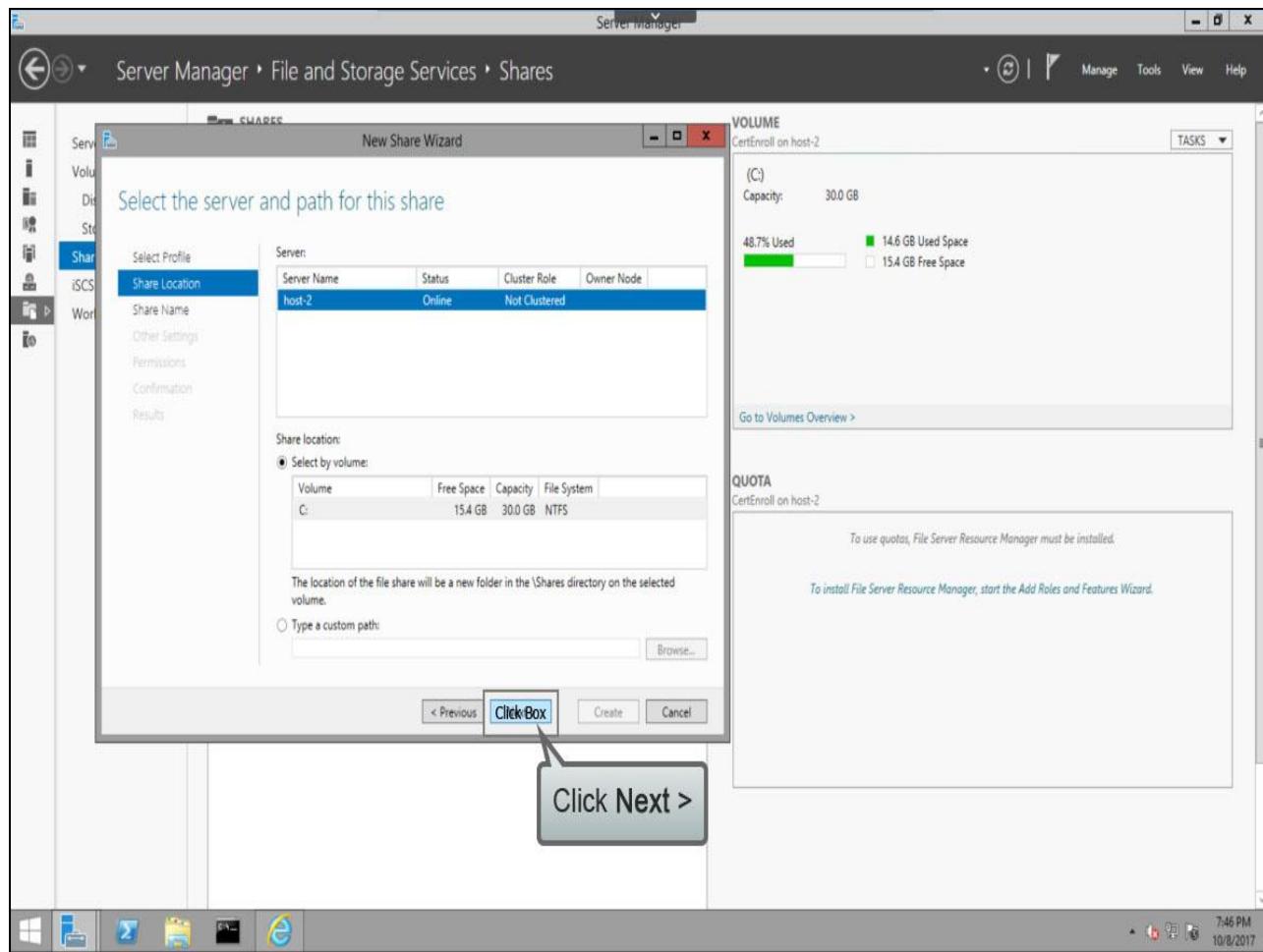
Slide 65 - Slide 65



Slide notes

Click **Next >** to start the **New Share Wizard**, ...

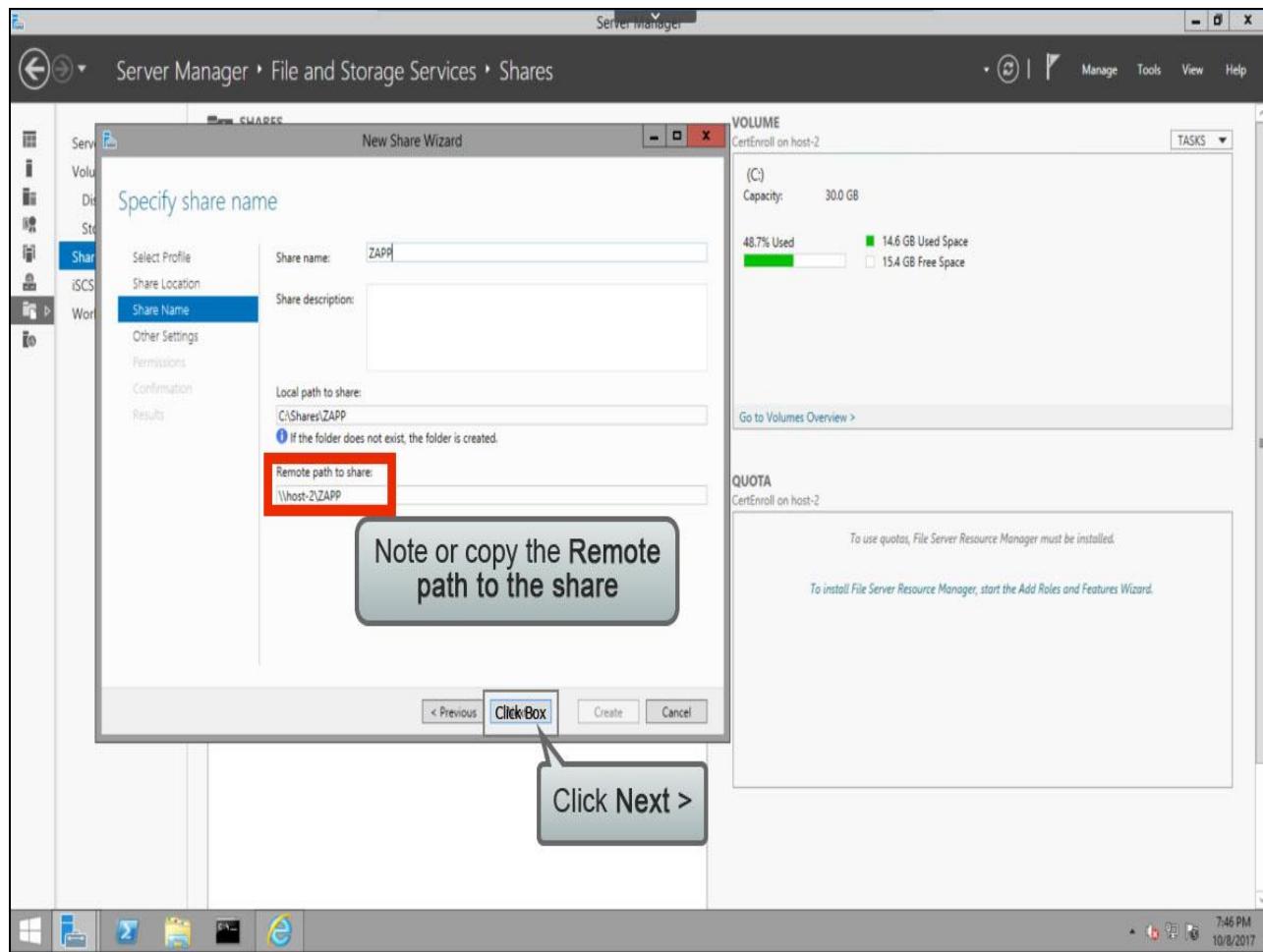
Slide 66 - Slide 66



Slide notes

...and select the correct server and volume to create the share on (in this example there is only the one server, and we'll use the C: drive). Click **Next >** to continue with the Wizard.

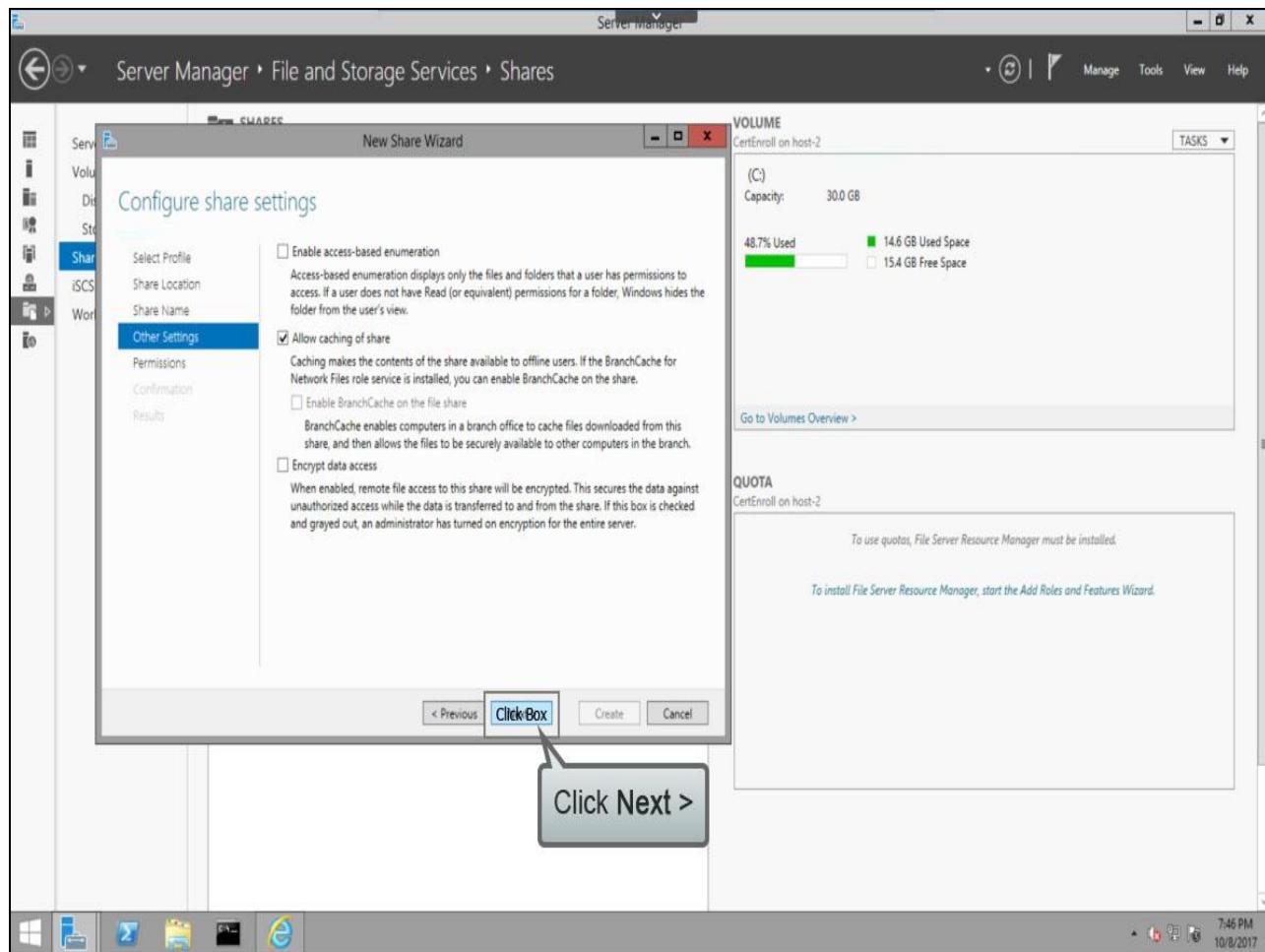
Slide 67 - Slide 67



Slide notes

Make a note of the **Remote path to the share**, as we will need it in a later step, and click **Next >**.

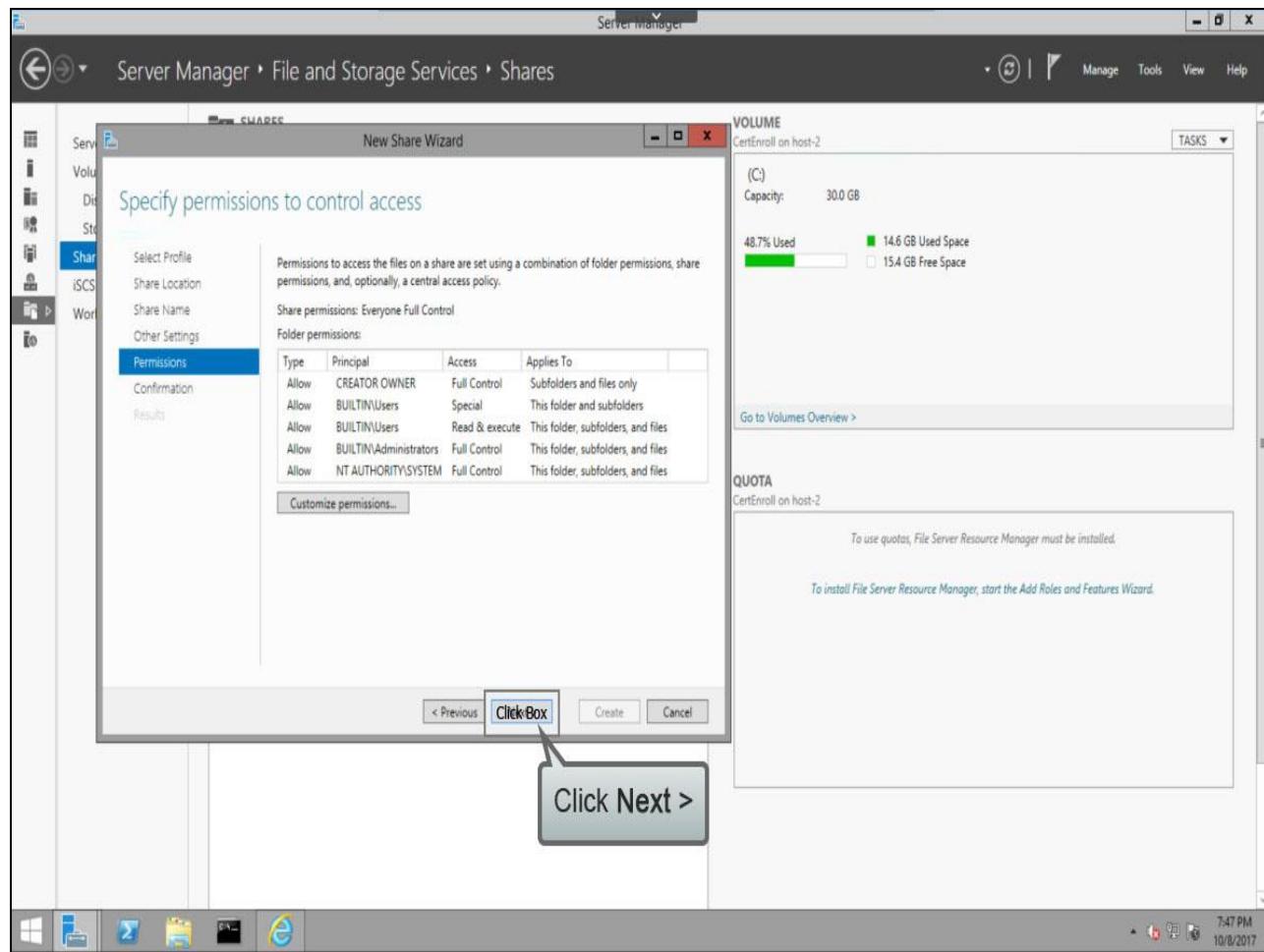
Slide 68 - Slide 68



Slide notes

Configure **Other Settings** as necessary and click **Next >**.

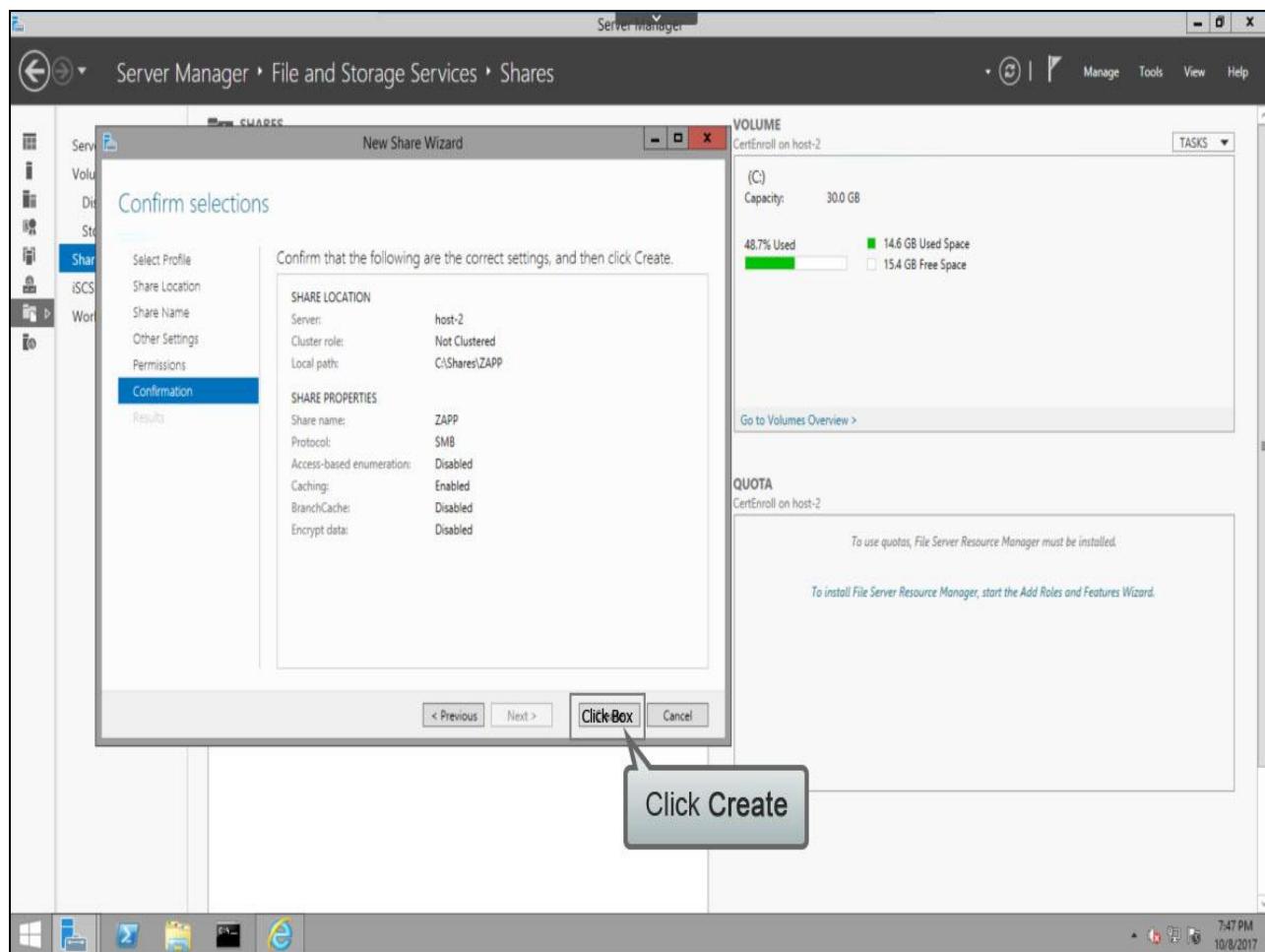
Slide 69 - Slide 69



Slide notes

Configure **Permissions** if necessary, and click **Next >** (note, we'll leave these as they are for now, and customize them in a later step).

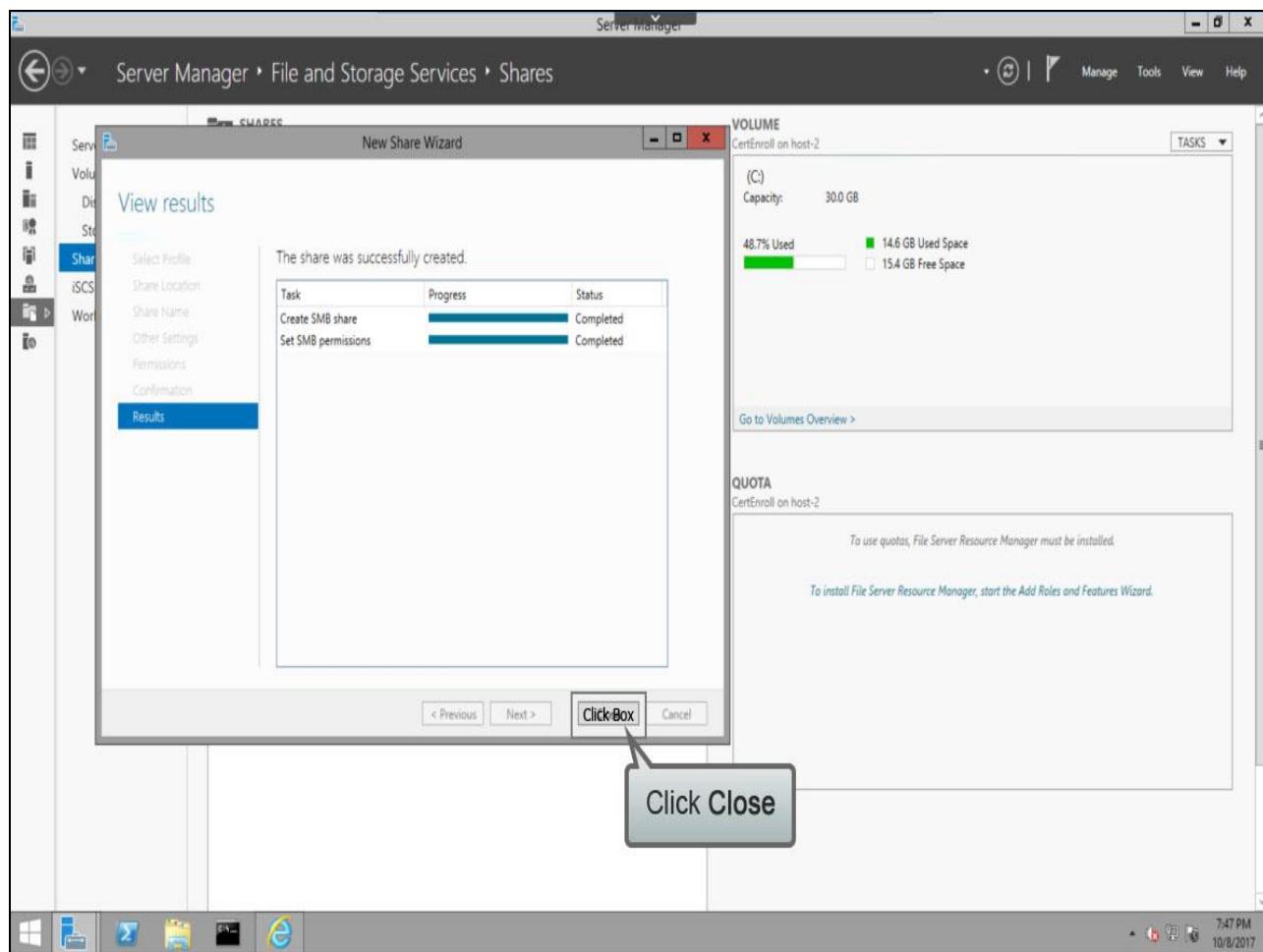
Slide 70 - Slide 70



Slide notes

Click Create, ...

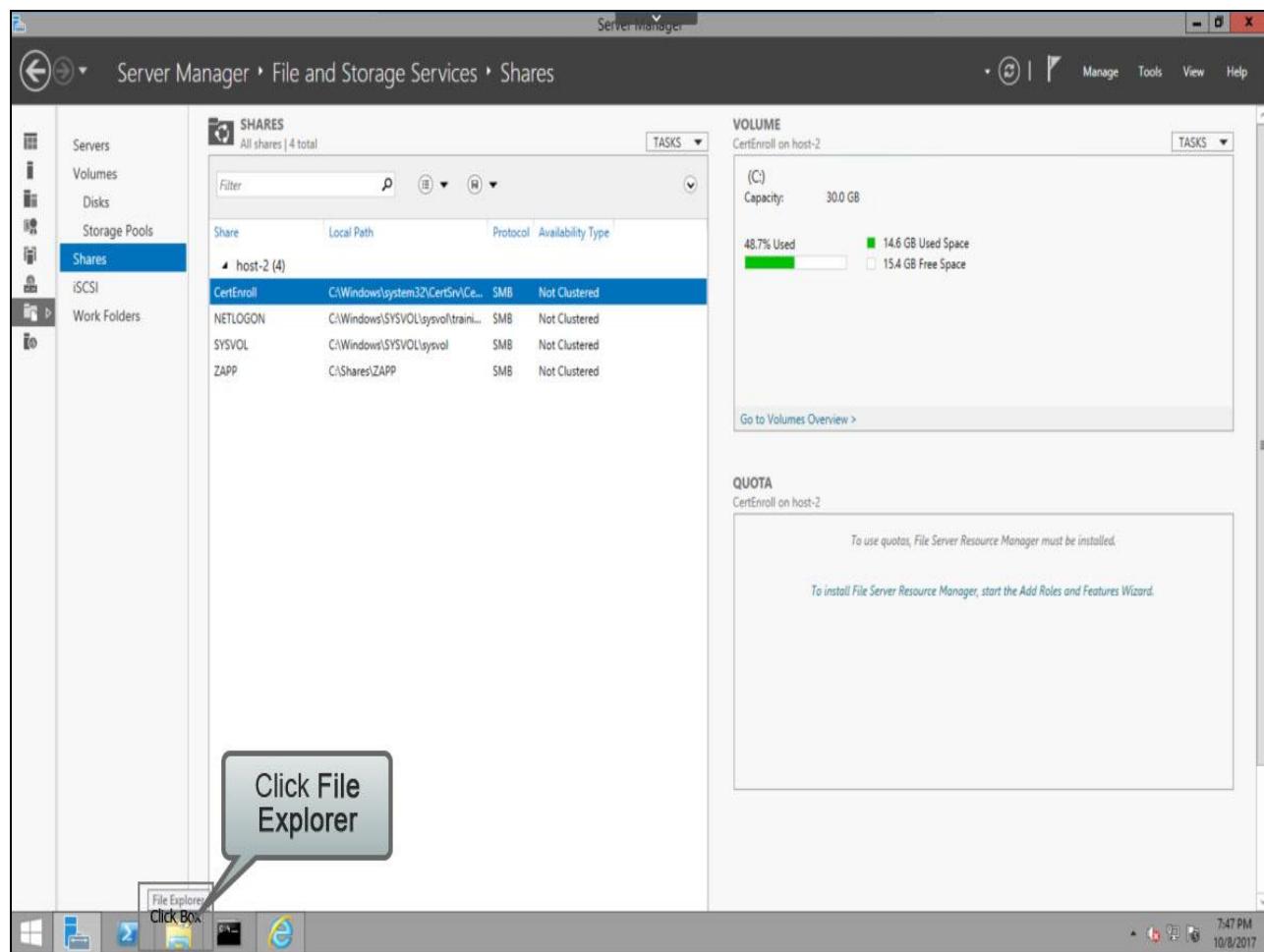
Slide 71 - Slide 71



Slide notes

...and once the share has been created, click **Close**.

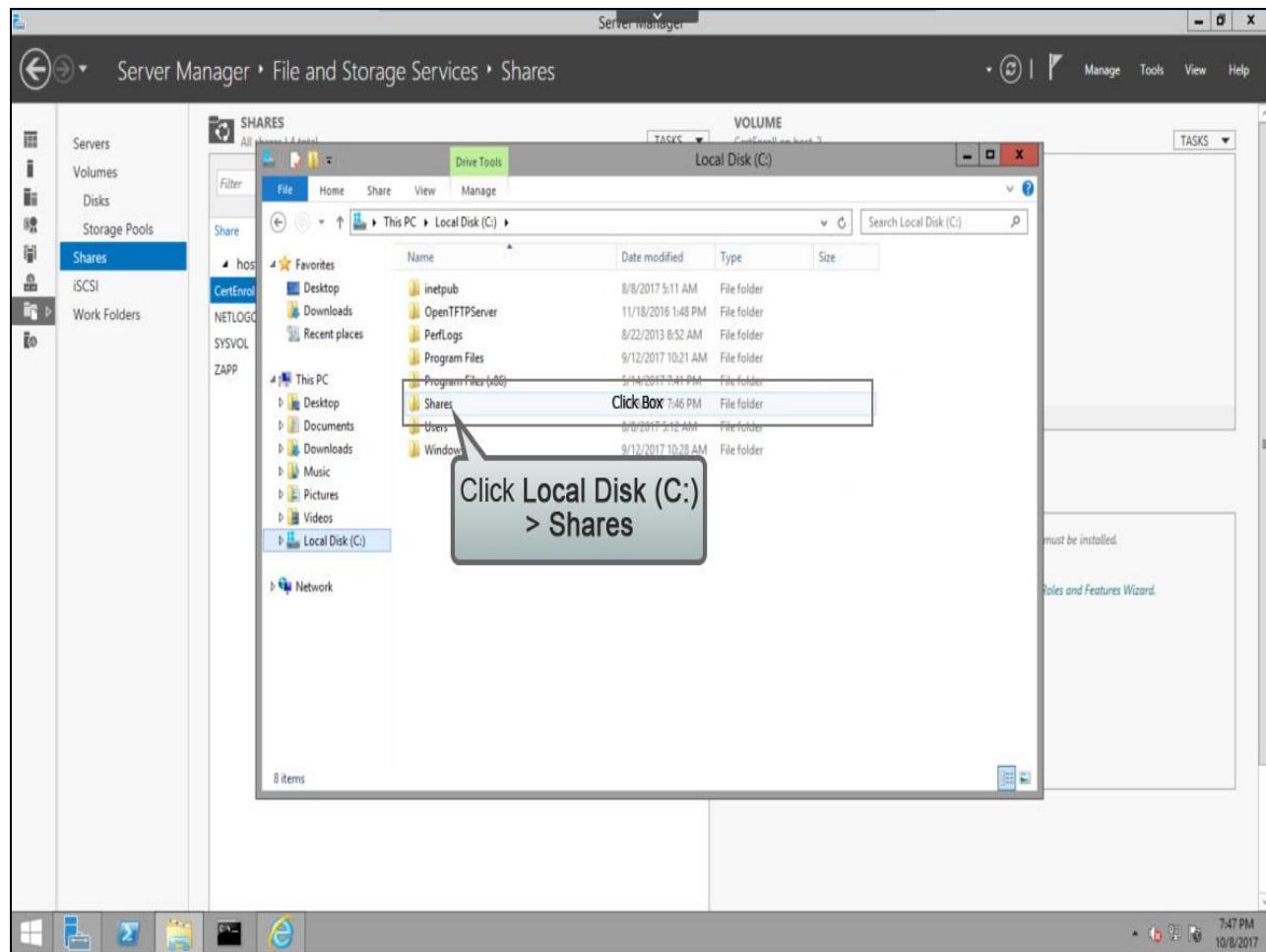
Slide 72 - Slide 72



Slide notes

We now need to set some permissions on the new share. To do this, open the Windows **File Explorer**, ...

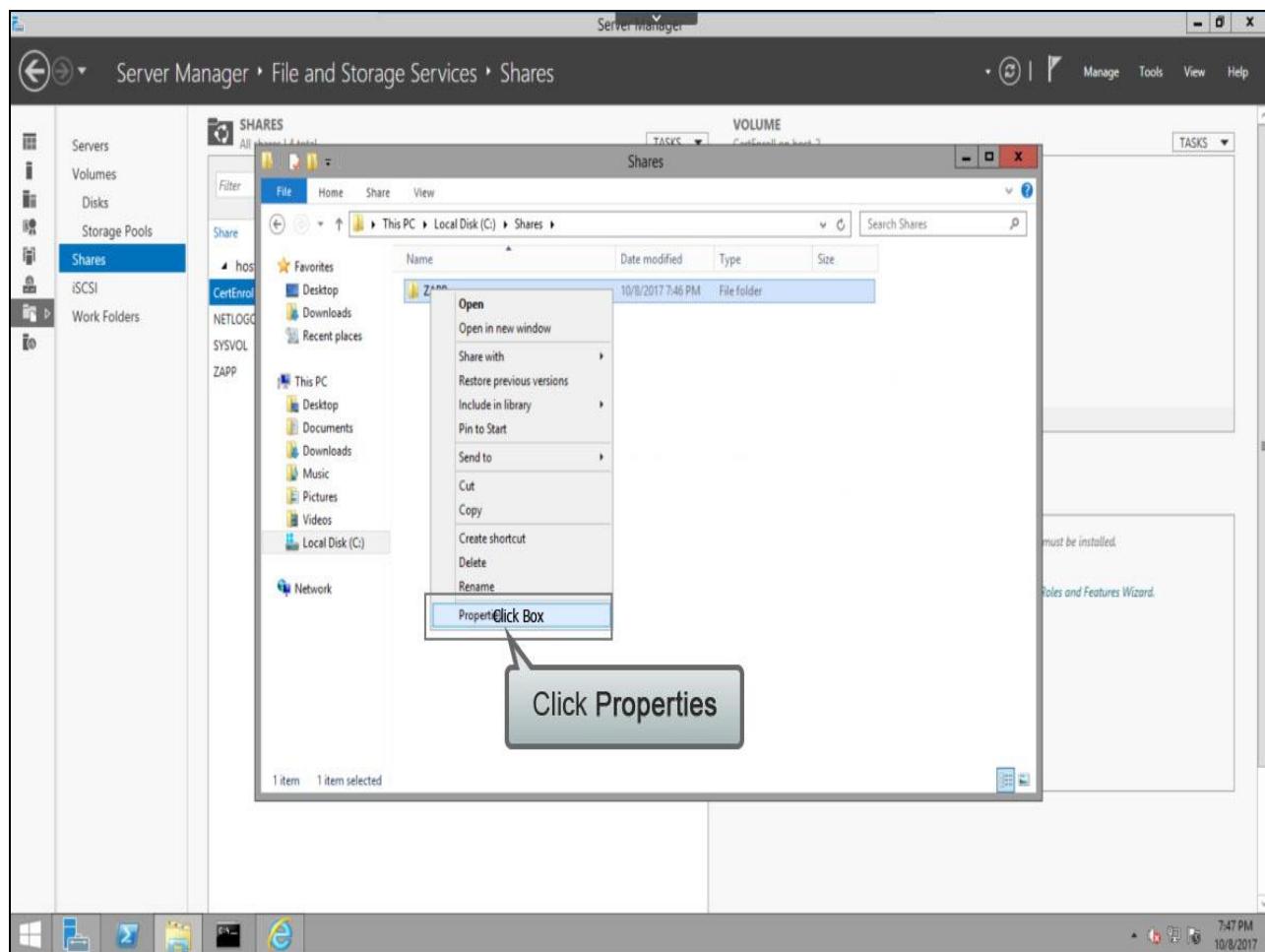
Slide 73 - Slide 73



Slide notes

...and navigate to the new share, in this case in the folder at C:\Shares.

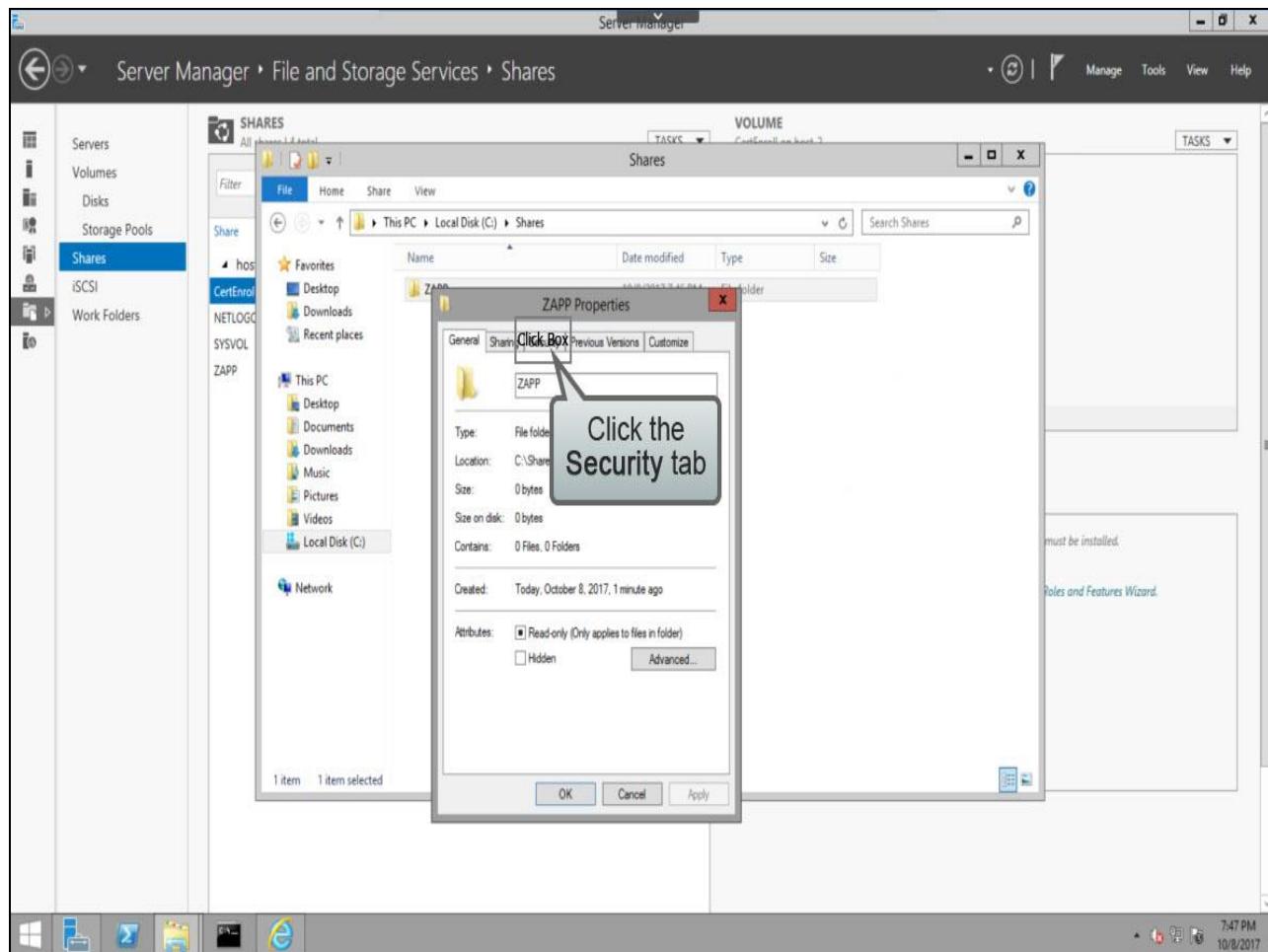
Slide 74 - Slide 74



Slide notes

We'll now customize the permissions for the share, right click on it and select **Properties**.

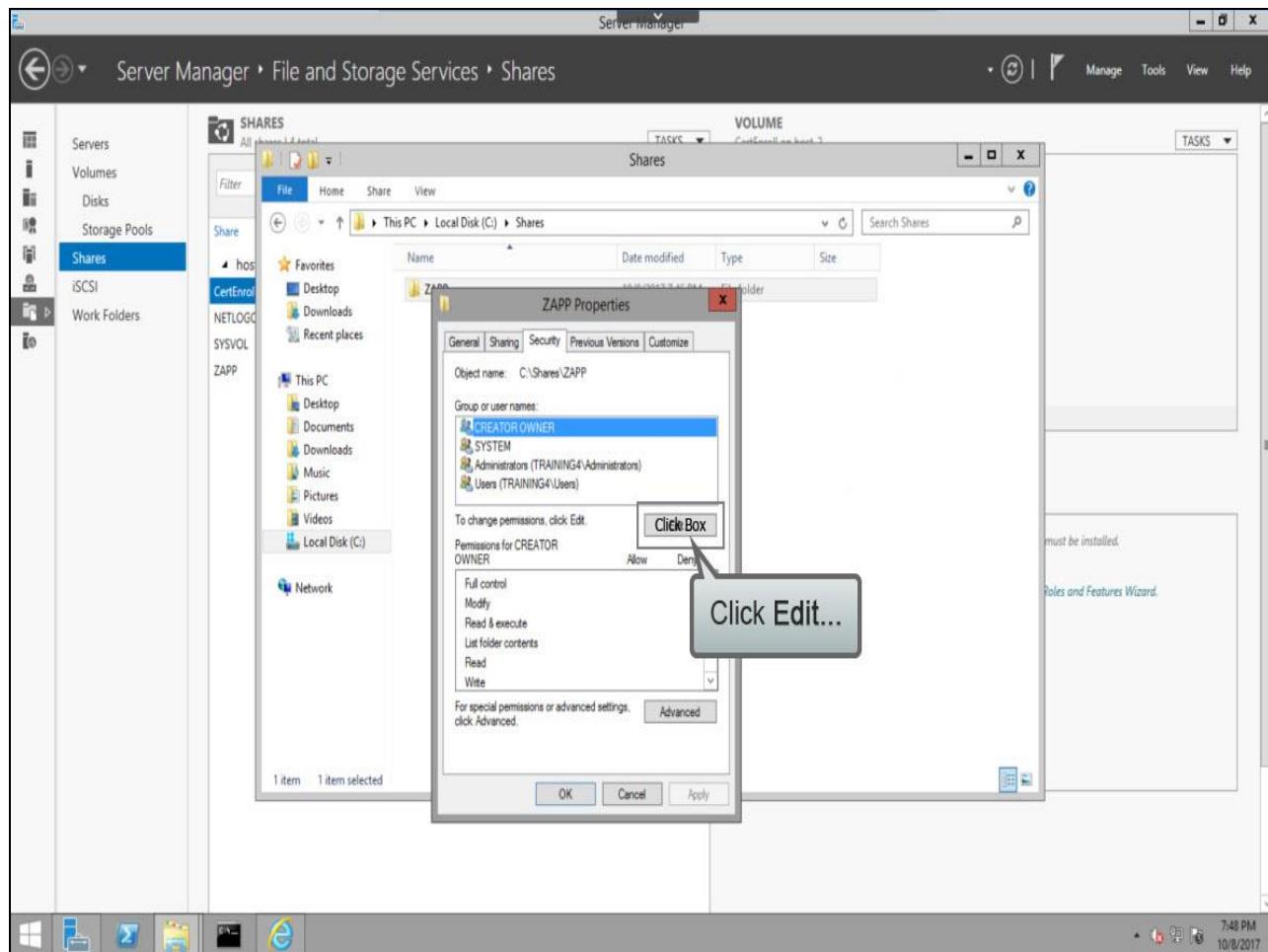
Slide 75 - Slide 75



Slide notes

Go to the **Security** tab, ...

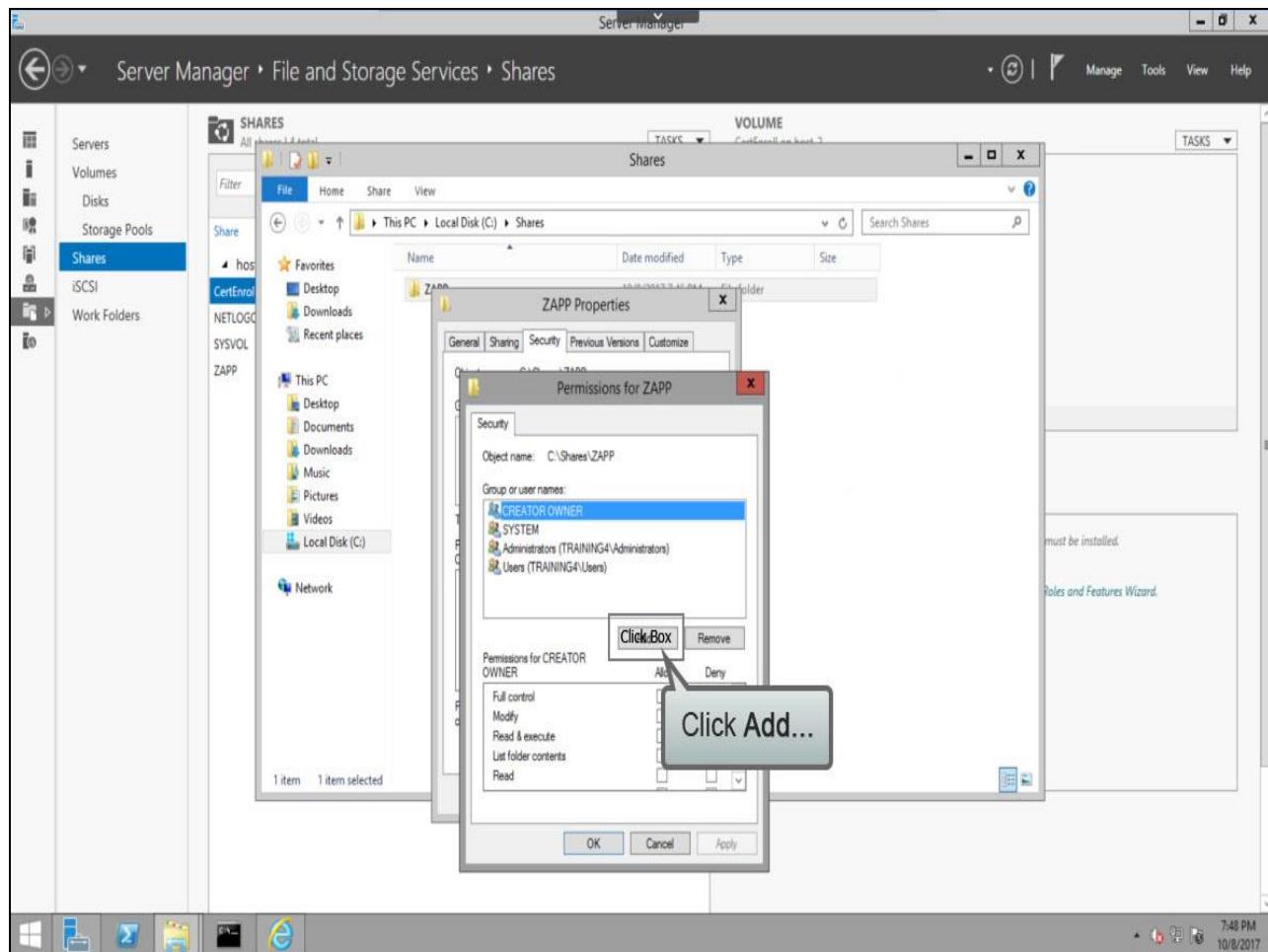
Slide 76 - Slide 76



Slide notes

...click Edit, ...

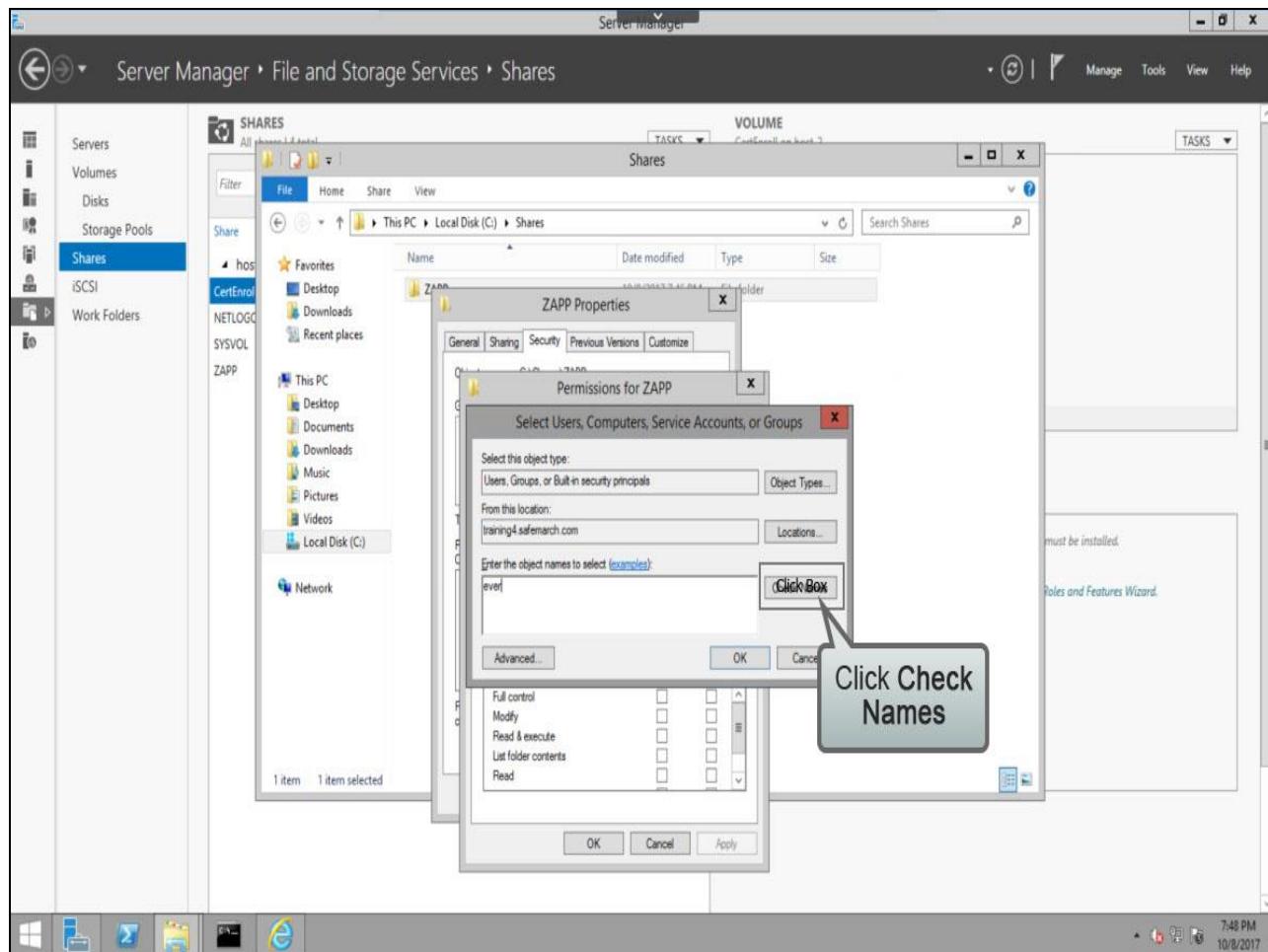
Slide 77 - Slide 77



Slide notes

...then Add.

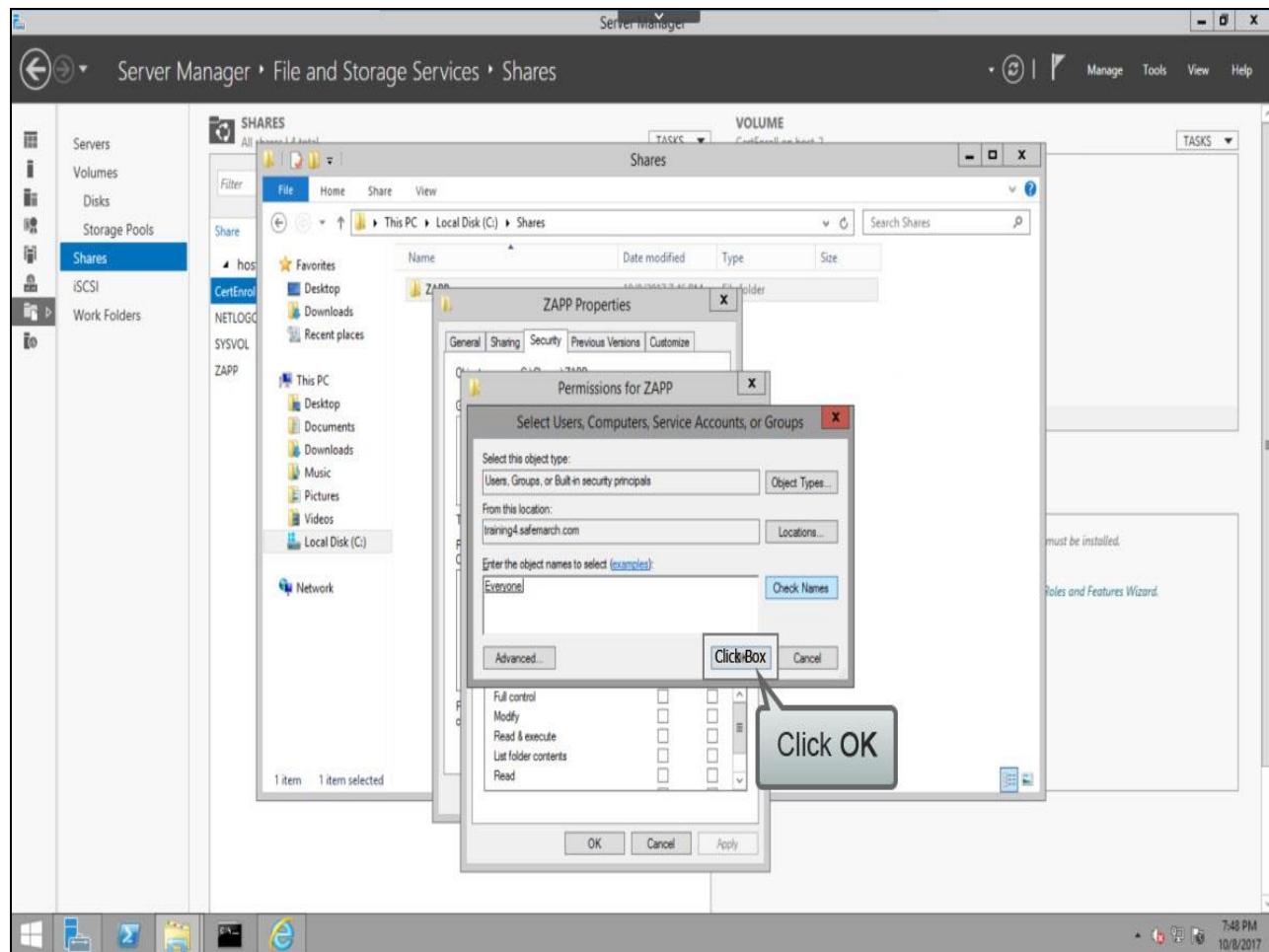
Slide 78 - Slide 78



Slide notes

We want to add the OU Everyone, so start to type the name in the field, then click **Check Names**, ...

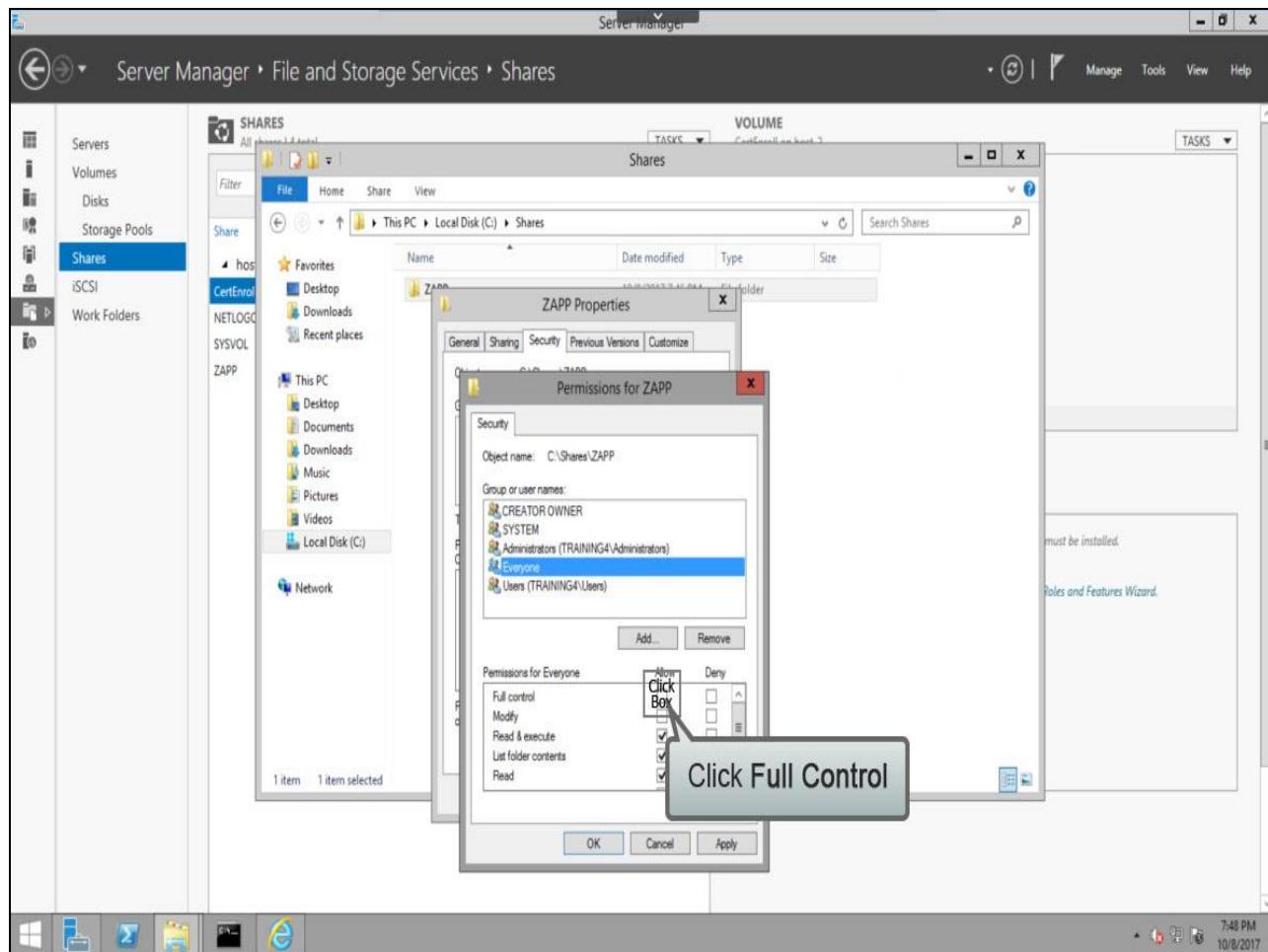
Slide 79 - Slide 79



Slide notes

...verify that the OU **Everyone** is found, then click **OK**.

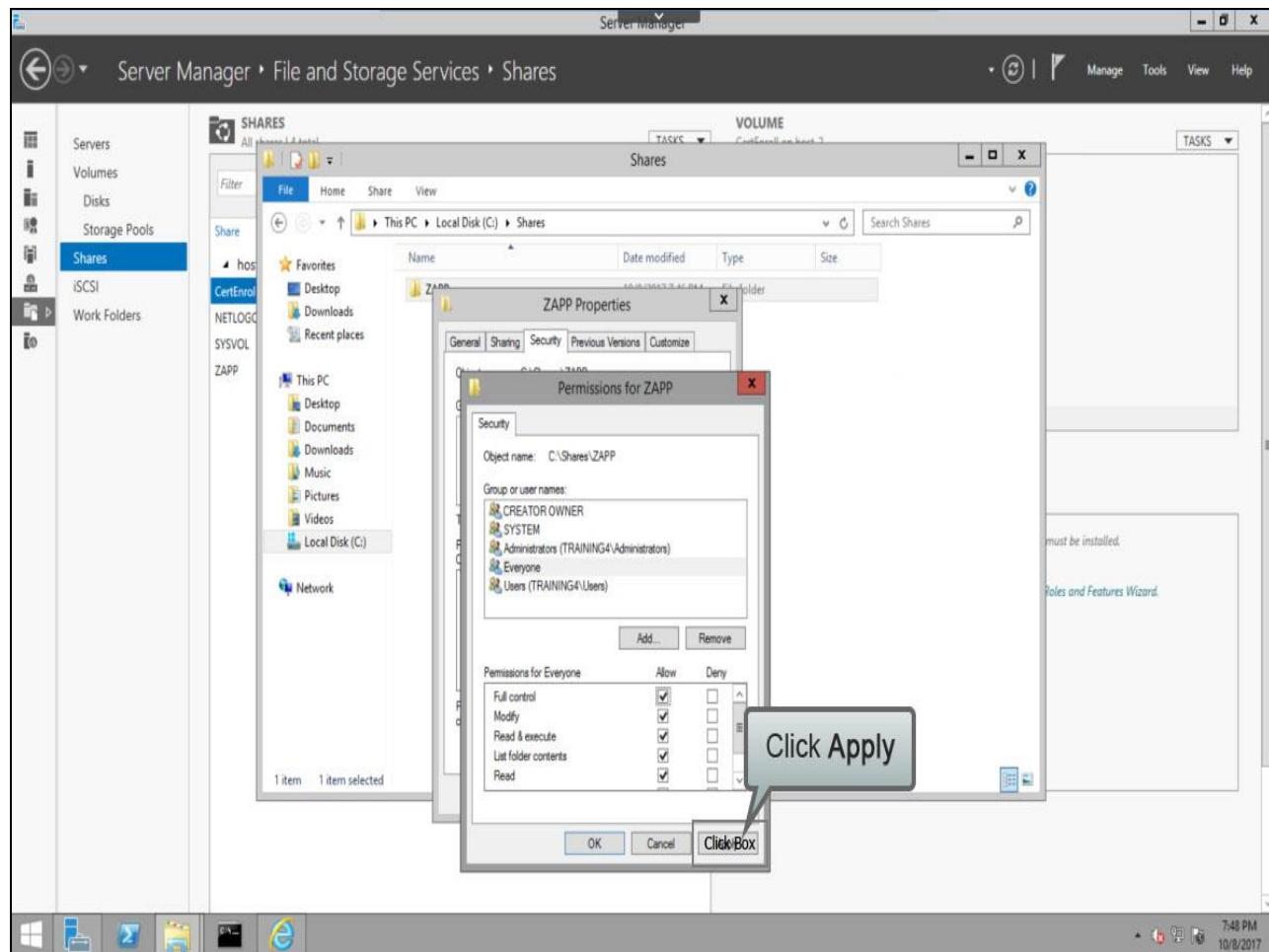
Slide 80 - Slide 80



Slide notes

Select the OU Everyone and click to enable Full Control.

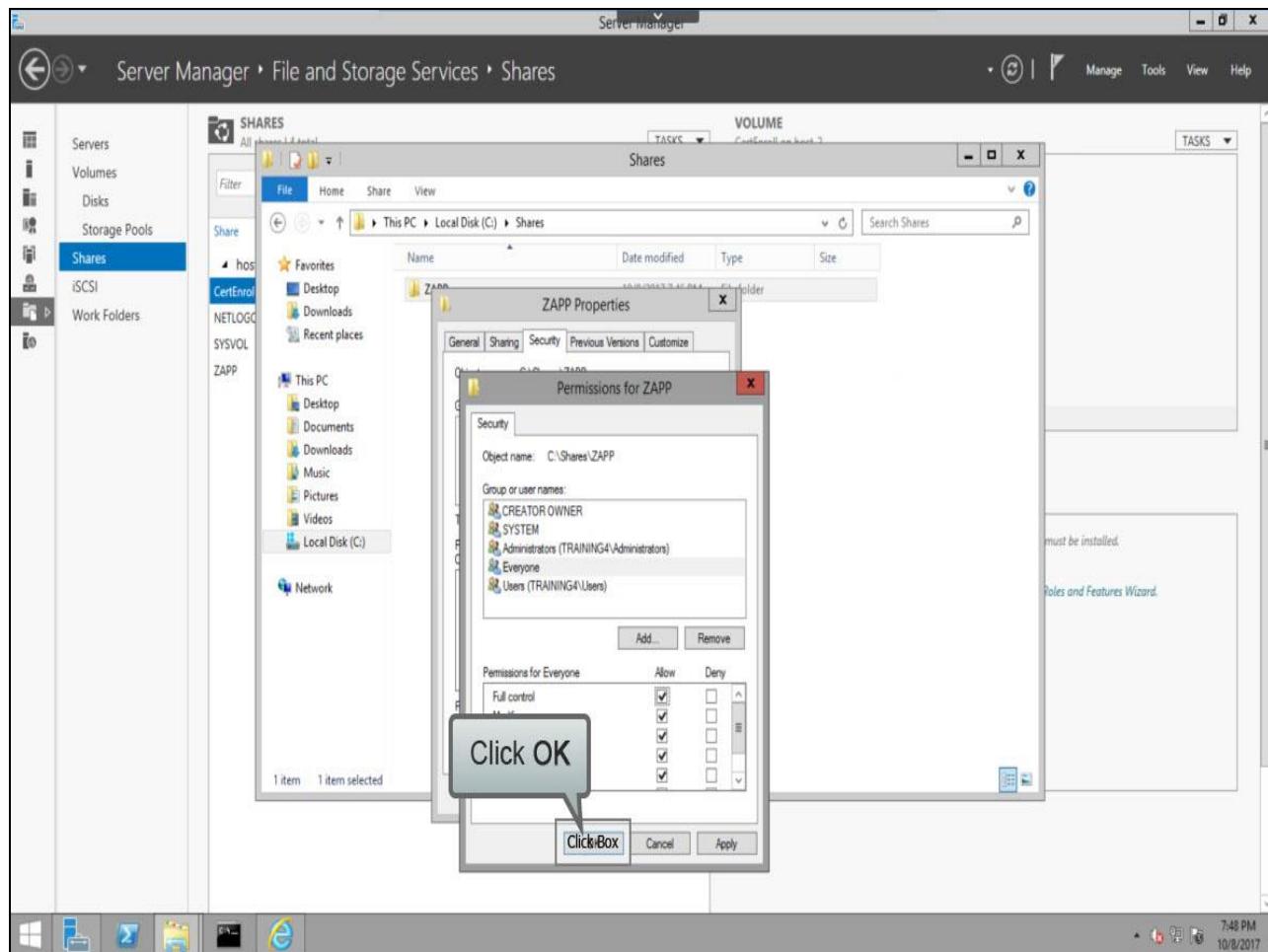
Slide 81 - Slide 81



Slide notes

Check that the OU **Everyone** has all permissions enabled, except **Special permissions**, then click **Apply**, ...

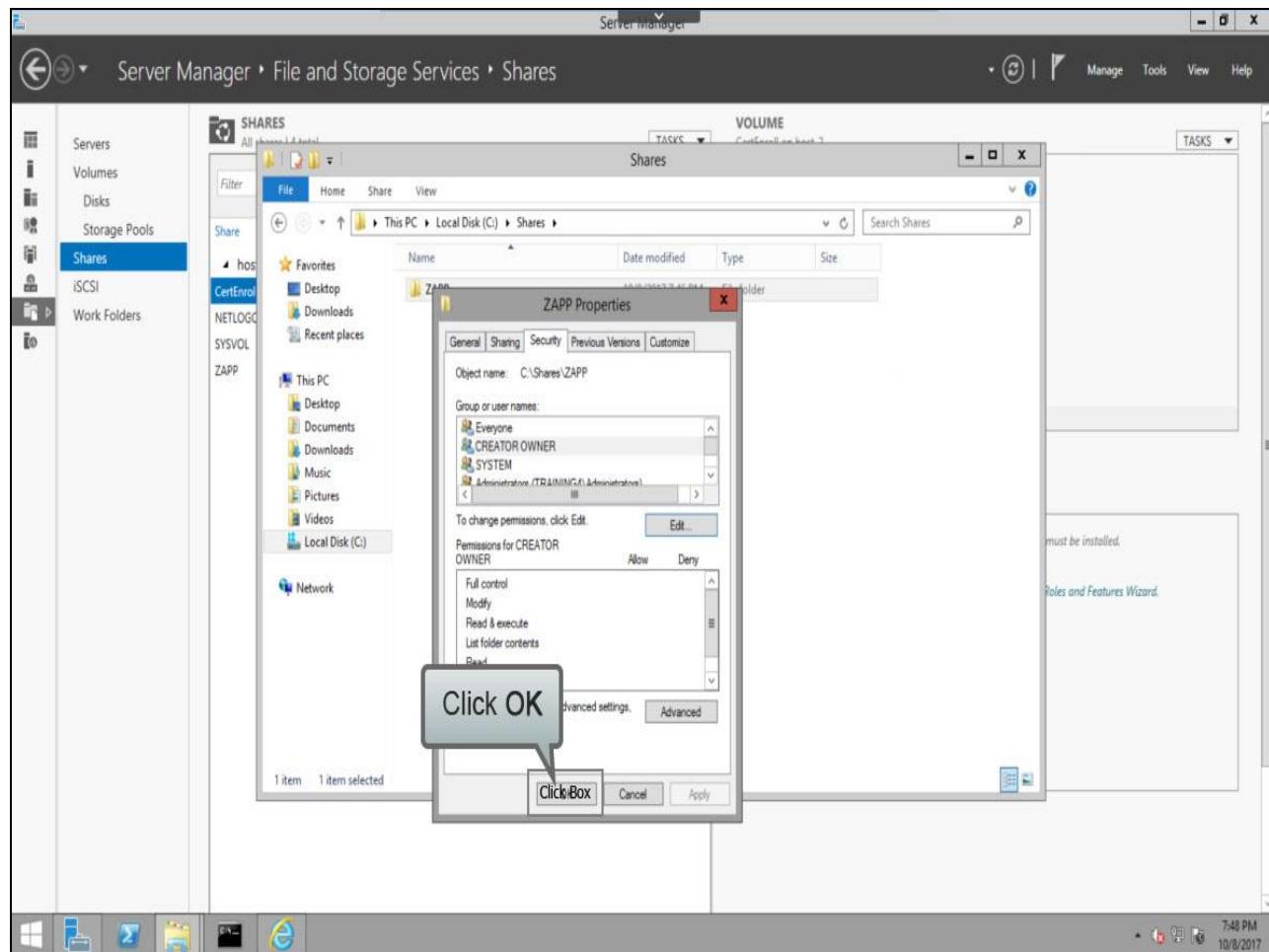
Slide 82 - Slide 82



Slide notes

...then OK, ...

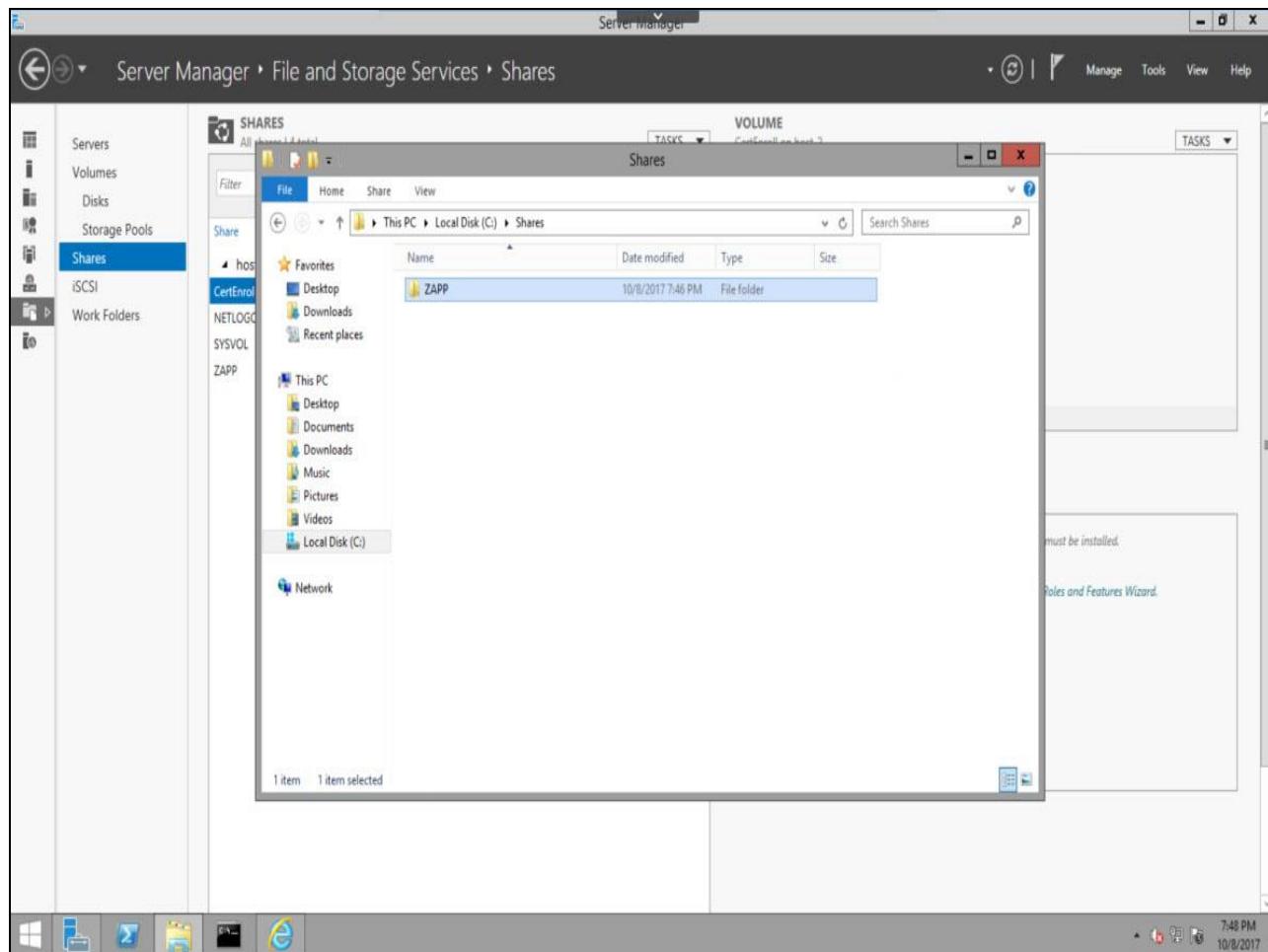
Slide 83 - Slide 83



Slide notes

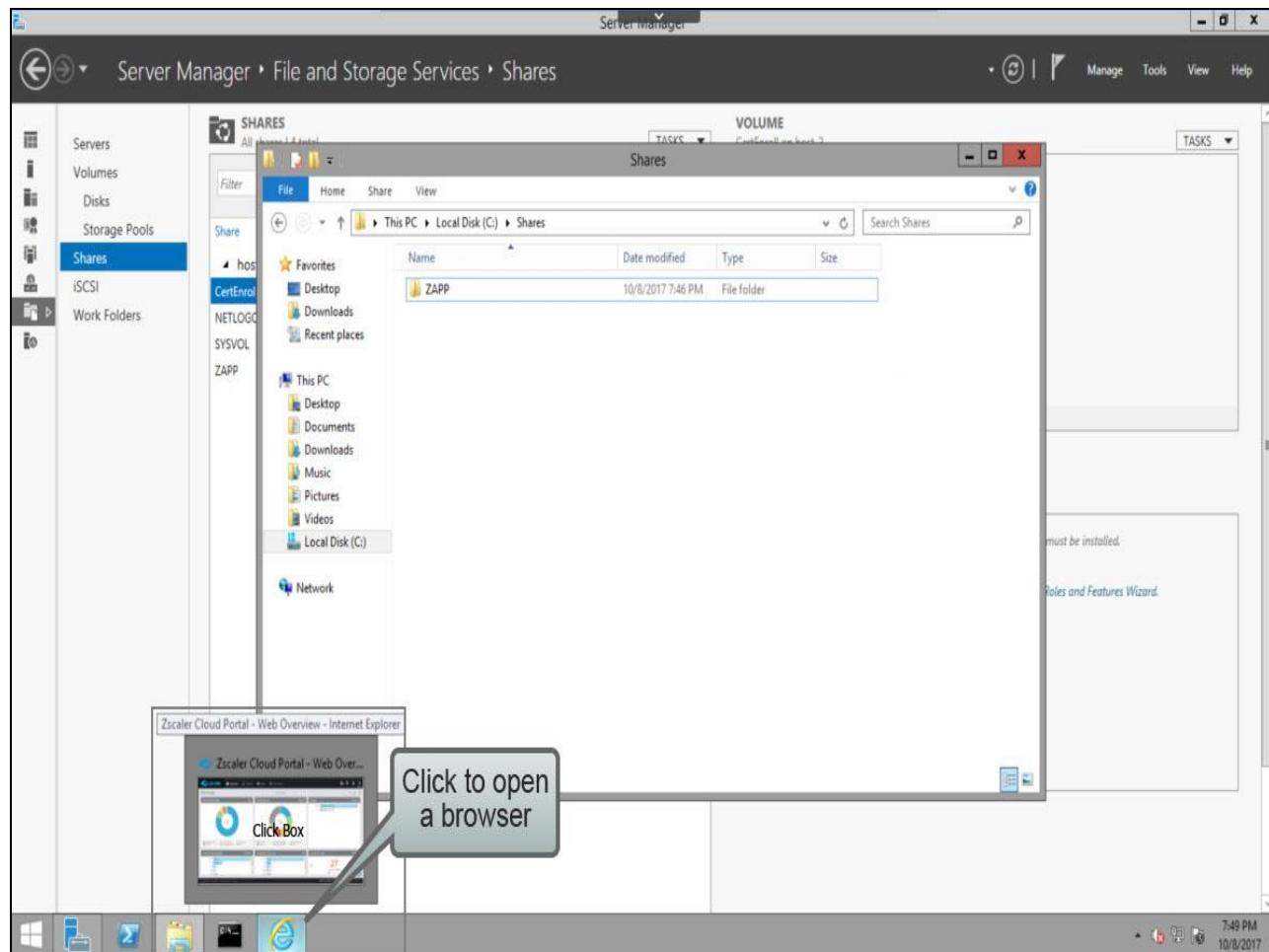
...and OK once more.

Slide 84 - Slide 84



Slide notes

Slide 85 - Slide 85



Slide notes

We need to add the appropriate installer files to this share, so they are available to be pushed to the end user's PCs. To download the install file, open a browser on the server...

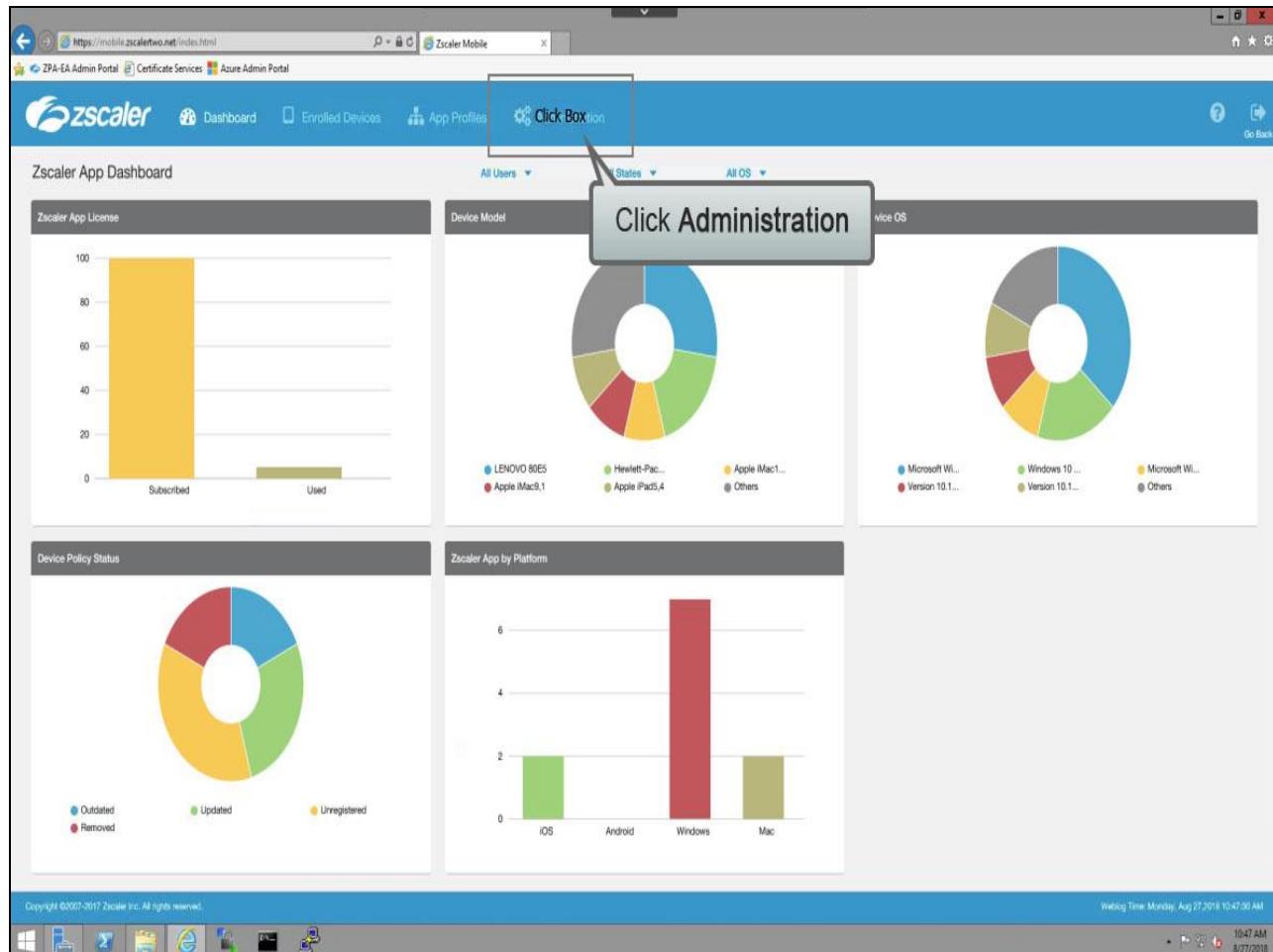
Slide 86 - Slide 86

The screenshot shows the Zscaler Cloud Portal Dashboard. On the left, a sidebar menu includes options like Web, Security, Access Control, Data Loss Prevention, Policy (which is highlighted with a red box), Mobile, Zscaler App Configuration, and Search. A callout box points to the 'Zscaler App Portal' under the Policy section. The main dashboard features several cards: 'TOP URL CATEGORIES' (a donut chart showing 65.5 K total, with segments for Radio Stations, Professional Services, Spyware Callback, Corporate Marketing, and FileHost/Others); 'TOP THREATS' (listing Advanced Threats at 26.1 K and Viruses & Spyware at 2); 'TOP ADVANCED THREATS' (showing 26.1 K Spyware Callback); and 'STREAMING MEDIA APPLICATIONS' (which displays 'No data for selected time range'). The bottom of the screen shows a Windows taskbar with icons for File Explorer, Task View, and Start.

Slide notes

...and log into the Zscaler Admin Portal, then from the **Policy** menu, click **Zscaler App Portal**.

Slide 87 - Slide 87



Slide notes

Click on the **Administration** tab, ...

Slide 88 - Slide 88

Select the correct Platform

Device Snapshot

Windows					Mac OS X			
Application Version	Registered Devices	Release Notes	Download EXE	Download MSI	Application Version	Registered Devices	Release Notes	Download Link
1.4.0.188	2	0	Click to download	Click to download	1.4.0.187	0	0	Click to download
1.3.1.0	0	0	Click to download	Click to download	1.3.1.0	0	0	Click to download
1.2.4.000030	0	0	Click to download	Click to download	1.2.4.000022	0	0	Click to download
1.2.3.000011	0	0	Click to download	Click to download	1.2.3.000003	0	0	Click to download
1.2.3.000009	0	0	Click to download	Click to download	1.2.2.000003	0	0	Click to download
1.2.3.000005	0	0	Click to download	Click to download	1.2.1.000010	0	0	Click to download
1.2.2.000004	0	0	Click to download	Click to download	1.2.0.000260	0	0	Click to download
1.2.1.000015	0	0	Click to download	Click to download	1.1.4.000007	0	0	Click to download
1.2.0.000316	0	0	Click to download	Click to download	1.1.3.000007	0	0	Click to download
1.1.4.000006	0	0	Click to download	Click to download	1.1.2.000006	0	0	Click to download
1.1.3.000016	?	0	Click to download	Click to download	1.1.1.000004	0	0	Click to download

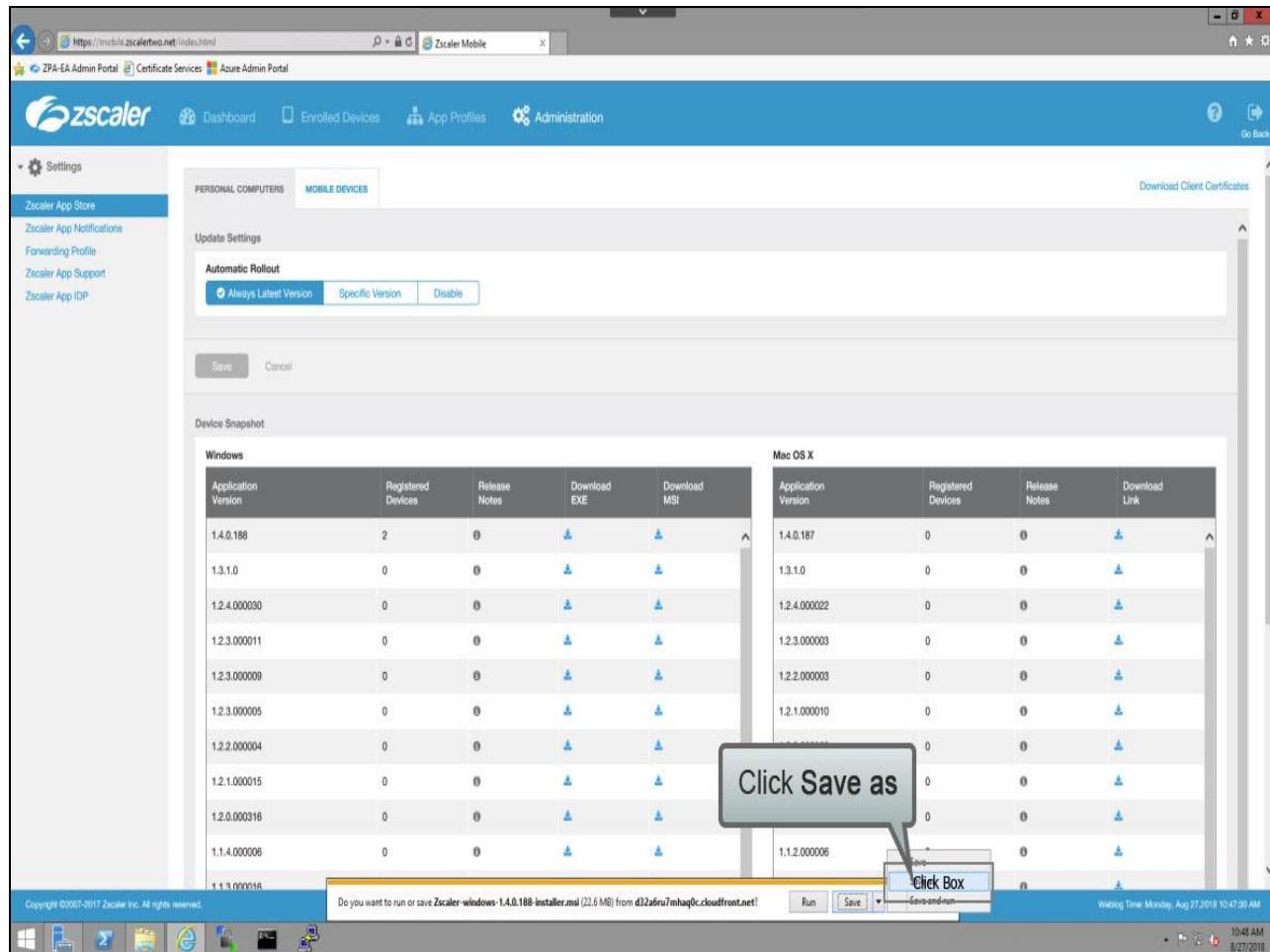
Copyright ©2007-2017 Zscaler Inc. All rights reserved.

Waiting Time: Monday, Aug 27, 2018 10:47:30 AM
10:47 AM
8/27/2018

Slide notes

...and on the **Zscaler App Store** page, select the correct **Platform** for the installer that you require (in this case we'll use the **Windows** option). Click on the link to download the relevant installer file.

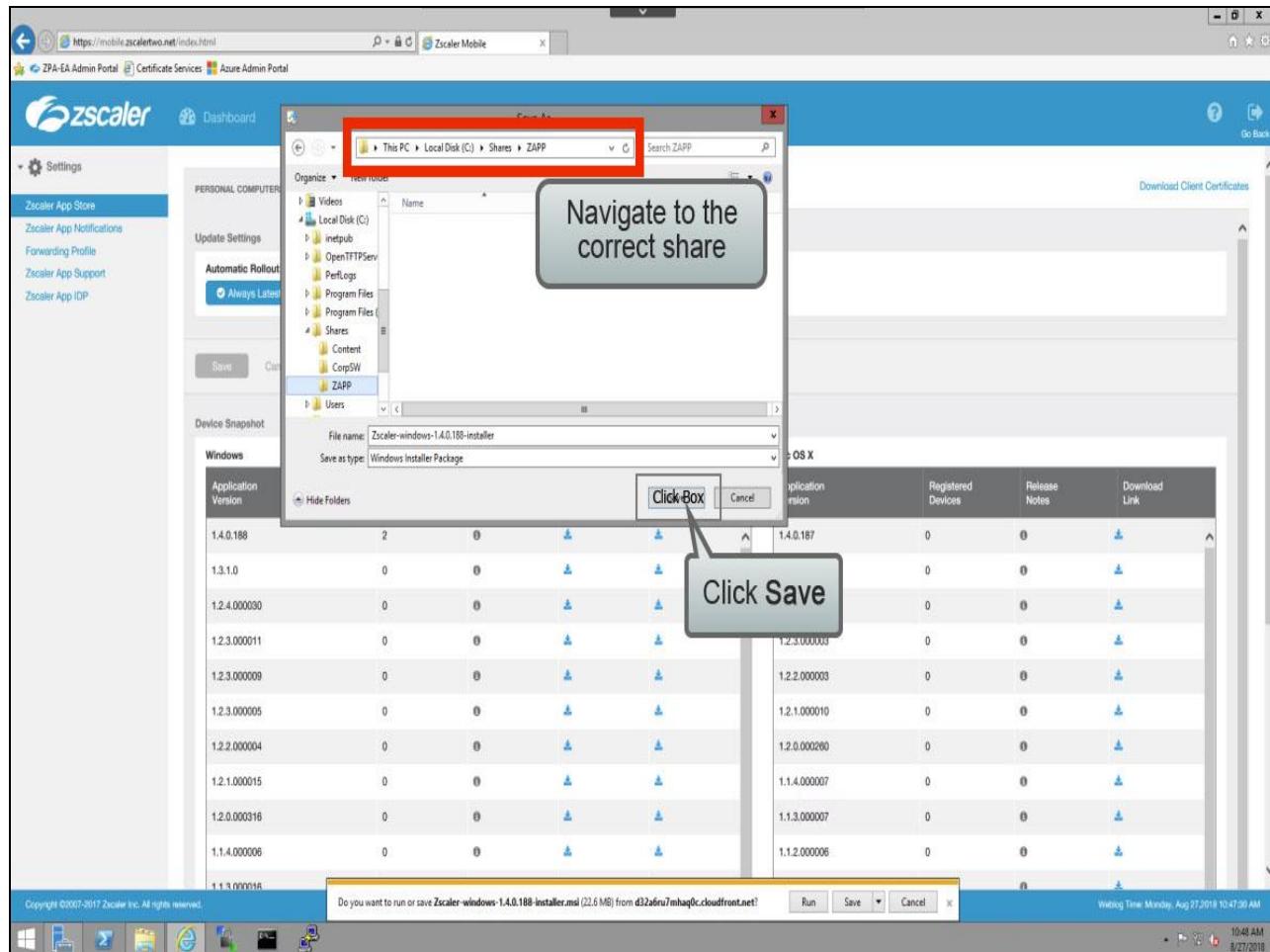
Slide 89 - Slide 89



Slide notes

In the browser, from the **Save** menu, select **Save as**, ...

Slide 90 - Slide 90



Slide notes

...then navigate to the new share that you created and click Save.

Slide 91 - Slide 91

The screenshot shows the Zscaler Admin Portal interface. On the left, there's a sidebar with 'Zscaler App Store' selected. The main area has tabs for 'PERSONAL COMPUTERS' and 'MOBILE DEVICES'. Under 'PERSONAL COMPUTERS', there's a section for 'Update Settings' with 'Automatic Rollout' options: 'Always Latest Version' (selected), 'Specific Version', and 'Disable'. Below this is a 'Device Snapshot' table for Windows and Mac OS X.

Windows Table:

Application Version	Registered Devices	Release Notes	Download EXE	Download MSI
1.4.0.188	2	0	Download EXE	Download MSI
1.3.1.0	0	0	Download EXE	Download MSI
1.2.4.000030	0	0	Download EXE	Download MSI
1.2.3.000011	0	0	Download EXE	Download MSI
1.2.3.000009	0	0	Download EXE	Download MSI
1.2.3.000005	0	0	Download EXE	Download MSI
1.2.2.000004	0	0	Download EXE	Download MSI
1.2.1.000015	0	0	Download EXE	Download MSI
1.2.0.000316	0	0	Download EXE	Download MSI
1.1.4.000006	0	0	Download EXE	Download MSI
1.1.3.00001A	0	0	Download EXE	Download MSI

Mac OS X Table:

Application Version	Registered Devices	Release Notes	Download Link
1.4.0.187	0	0	Download Link
1.3.0.000004	0	0	Download Link
1.2.1.000010	0	0	Download Link
1.2.0.000260	0	0	Download Link
1.1.4.000007	0	0	Download Link
1.1.3.000007	0	0	Download Link
1.1.2.000006	0	0	Download Link

A red box highlights the 'Download EXE' and 'Download MSI' columns in the Windows table. A callout bubble points to these columns with the text 'Install options for Windows'.

At the bottom of the portal, a message says 'The Zscaler-windows-1.4.0.188-installer.msi download has completed.' with buttons for 'Run', 'Open folder', and 'View downloads'.

Slide notes

Note that for the Windows platform, both a **.EXE**, and a **.MSI** installer file are available. Be sure to download the correct file type, depending on the type of install you wish to do, or simply download both.

You can download the **.EXE** file in the same way as the **.MSI**, or if you right-click on it, ...

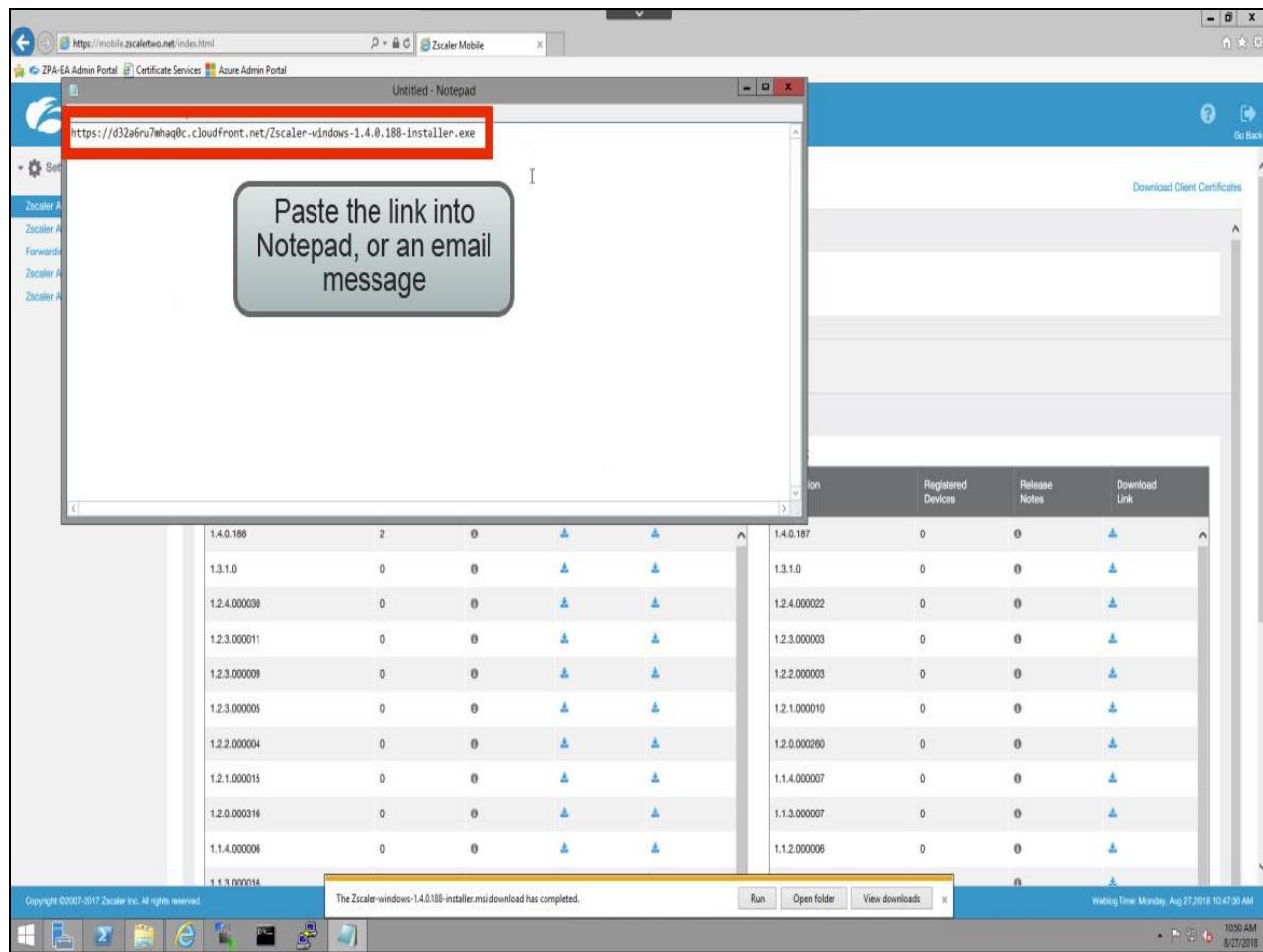
Slide 92 - Slide 92

The screenshot shows the Zscaler Admin Portal interface. On the left, there's a sidebar with 'Settings' expanded, showing 'Zscaler App Store' selected. The main content area has tabs for 'PERSONAL COMPUTERS' and 'MOBILE DEVICES'. Under 'PERSONAL COMPUTERS', there's a section titled 'Update Settings' with an 'Automatic Rollout' dropdown set to 'Always Latest Version'. Below this are 'Save' and 'Cancel' buttons. The 'Device Snapshot' section contains two tables: 'Windows' and 'Mac OS X'. In the Windows table, the first row (Application Version 1.4.0.188) has a context menu open over it. The menu items include 'Open', 'Open in new tab', 'Save target as...', 'Print target', 'Cut', 'Copy', 'Paste', 'E-mail with Windows Live', 'Transfer', 'All Accounts', 'Inspect', 'Add to', and 'Properties'. The 'Copy' option is highlighted with a blue border. A large callout box with the text 'Click Copy shortcut' points to the 'Copy' option in the menu. At the bottom of the page, a message says 'The Zscaler-windows-1.4.0.188-installer.msi download has completed.' and buttons for 'Run', 'Open folder', and 'View downloads'.

Slide notes

...and select the **Copy shortcut** option, ...

Slide 93 - Slide 93



Slide notes

You can paste the link to the installer file into Notepad, or into an email message for your end users, to give them a direct link to download and install the app.

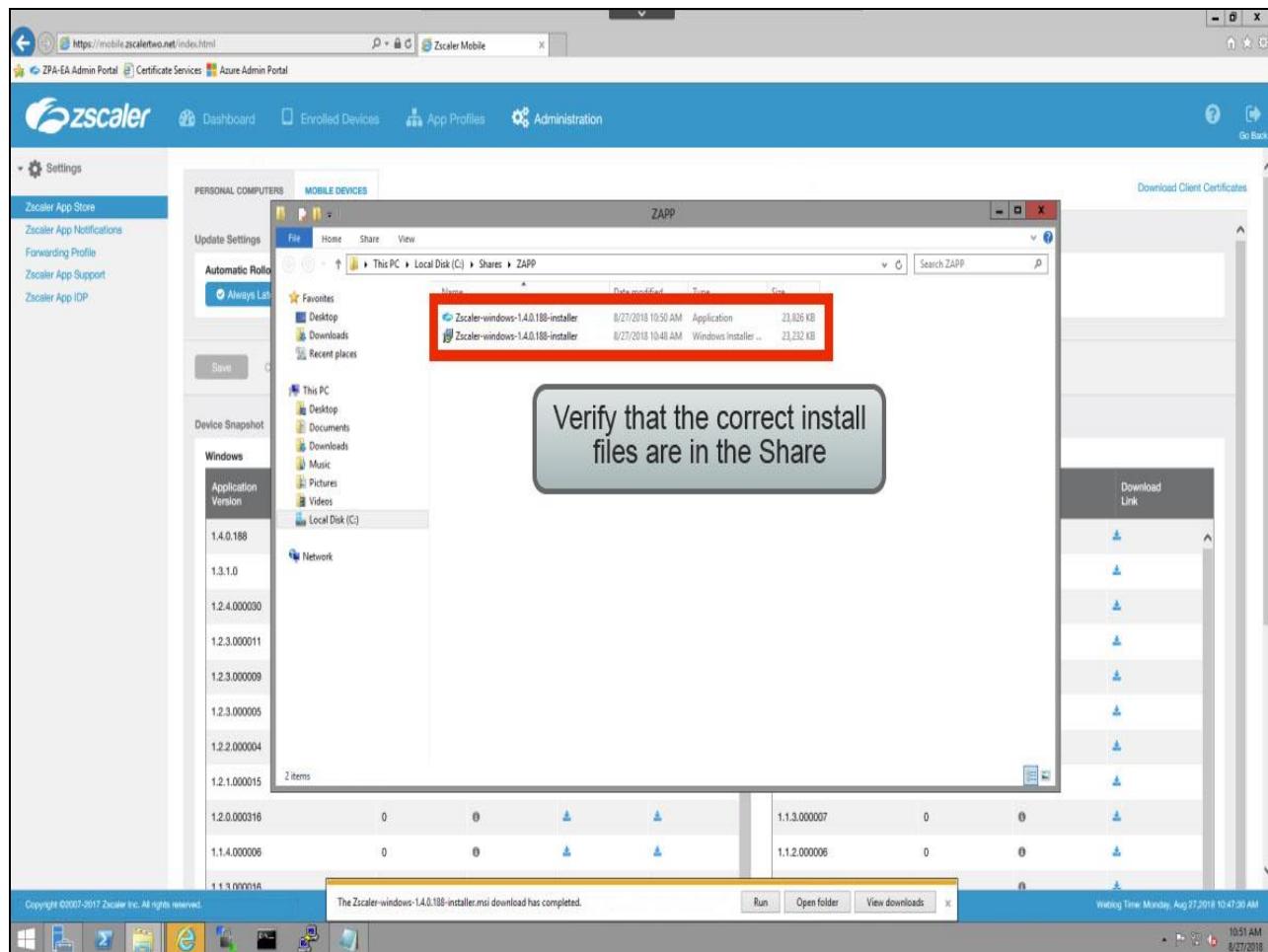
Slide 94 - Slide 94

The screenshot shows the Zscaler Admin Portal interface. In the center, there's a modal window titled "Update Settings" under the "Automatic Rollout" section. It has three buttons: "Always Latest Version" (selected), "Specific Version", and "Disable". Below the modal are "Save" and "Cancel" buttons. The main area is titled "Device Snapshot" and contains two tables: "Windows" and "Mac OS X". The Windows table has columns: Application Version, Registered Devices, Release Notes, Download EXE, and Download MSI. The Mac OS X table has columns: Application Version, Registered Devices, Release Notes, and Download Link. A speech bubble with the text "Click File Explorer" points to the "Download EXE" and "Download MSI" buttons in the Windows table. At the bottom of the screen, a taskbar shows a download notification: "The Zscaler-windows-1.4.0.188-installer.exe download has completed." with "Run", "Open folder", and "View downloads" options. The system tray shows the date and time: "Wednesday Aug 27 2018 10:47:30 AM" and "10:51 AM 8/27/2018".

Slide notes

To check that the files were downloaded OK, open Windows **File Explorer**, ...

Slide 95 - Slide 95



Slide notes

...navigate to the share and verify that the correct installer files are listed.

Slide 96 - Deploying the App: Personal Computers (Windows)



Deploying the App: Personal Computers (Windows)

- Deploy using an Active Directory Group Policy Object (GPO)

A. Prepare the AD environment



B. Place App install file on a network share the users can reach

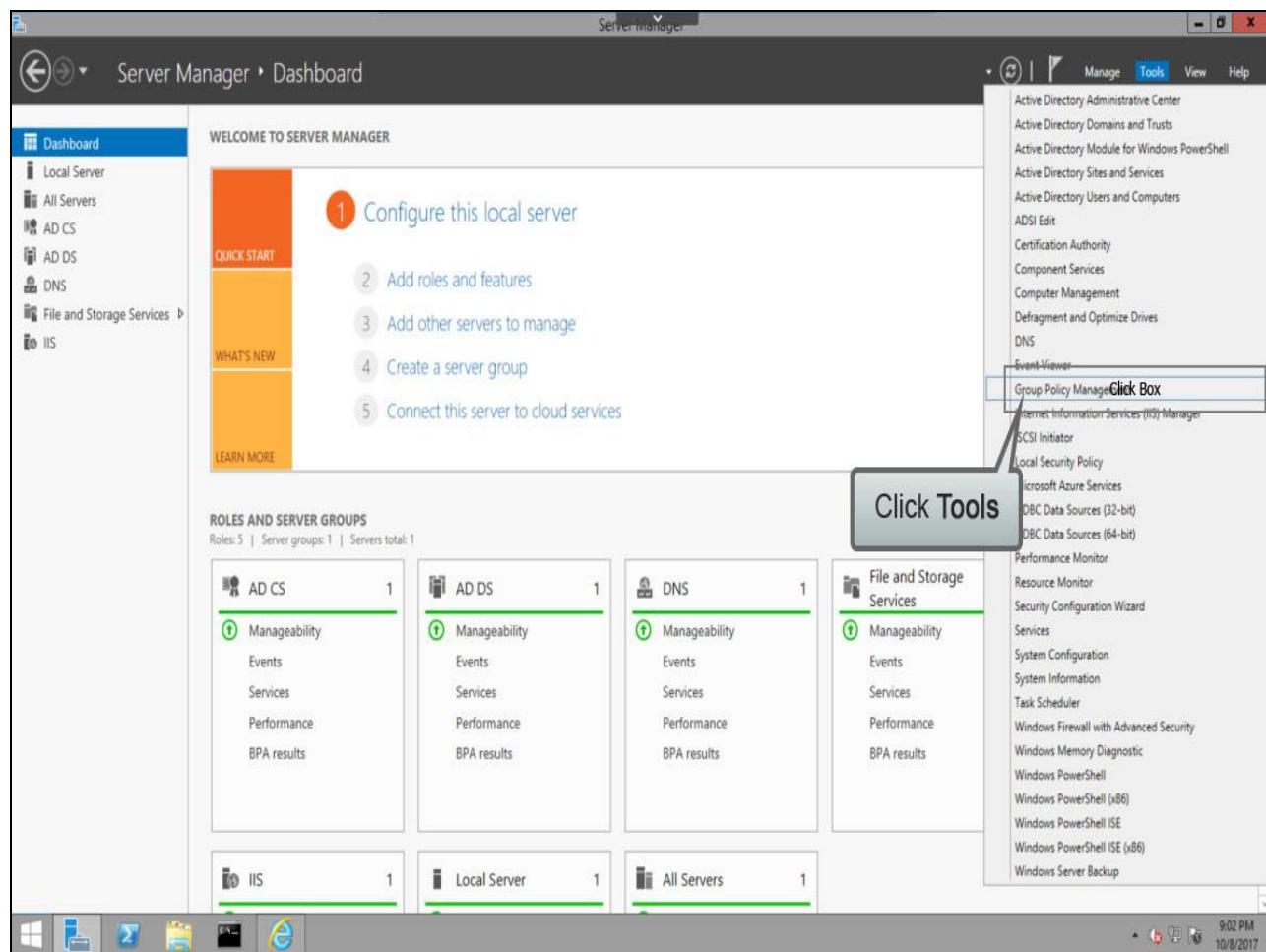


C. Create and apply a GPO to the OU created earlier

Slide notes

- C. Next, you need to create a Group Policy Object (GPO) for distributing the Zscaler App and apply it to the OU created earlier.

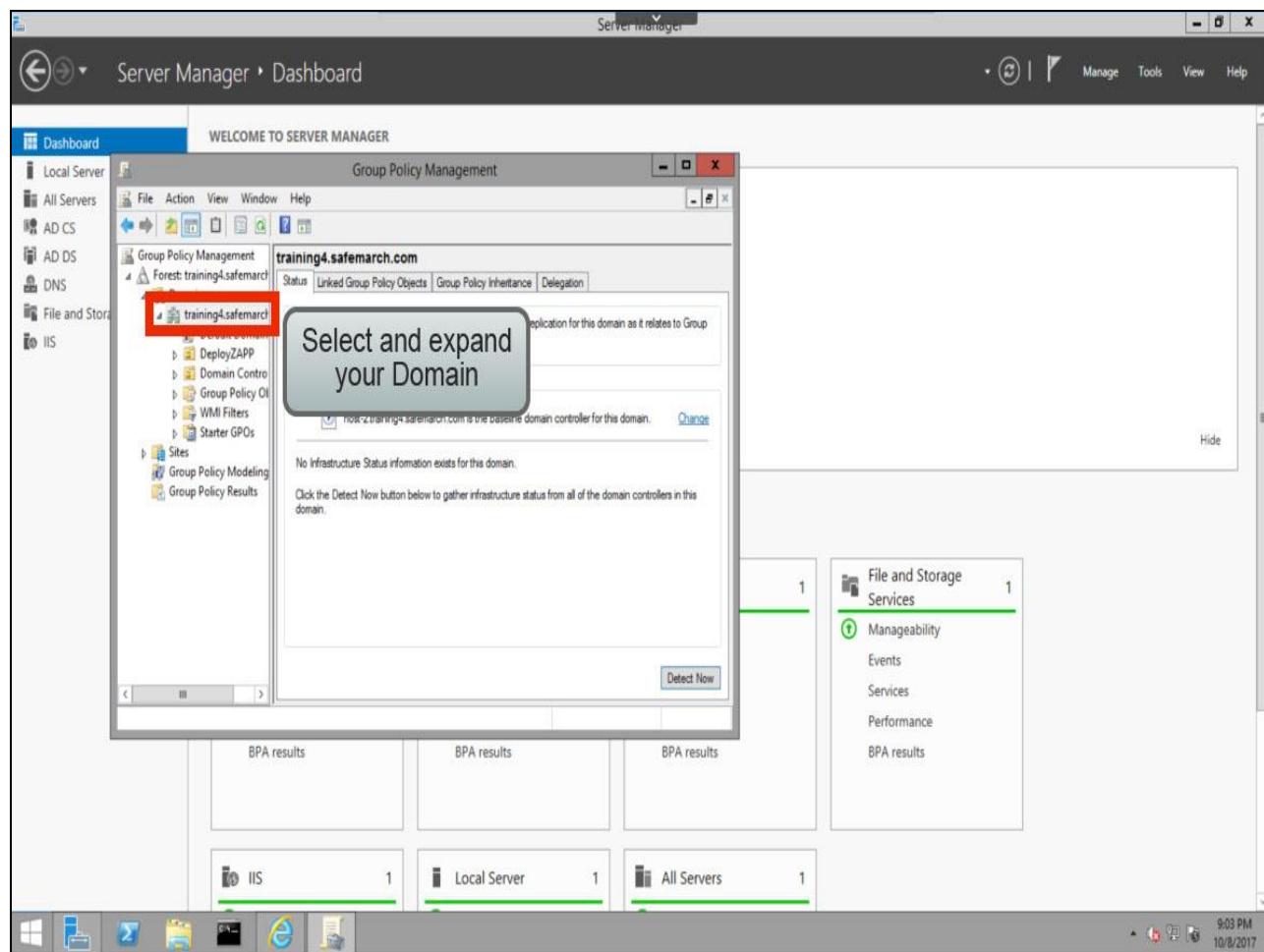
Slide 97 - Slide 97



Slide notes

To create a new GPO, from the **Server Manager Dashboard > Tools** menu, click **Group Policy Management**.

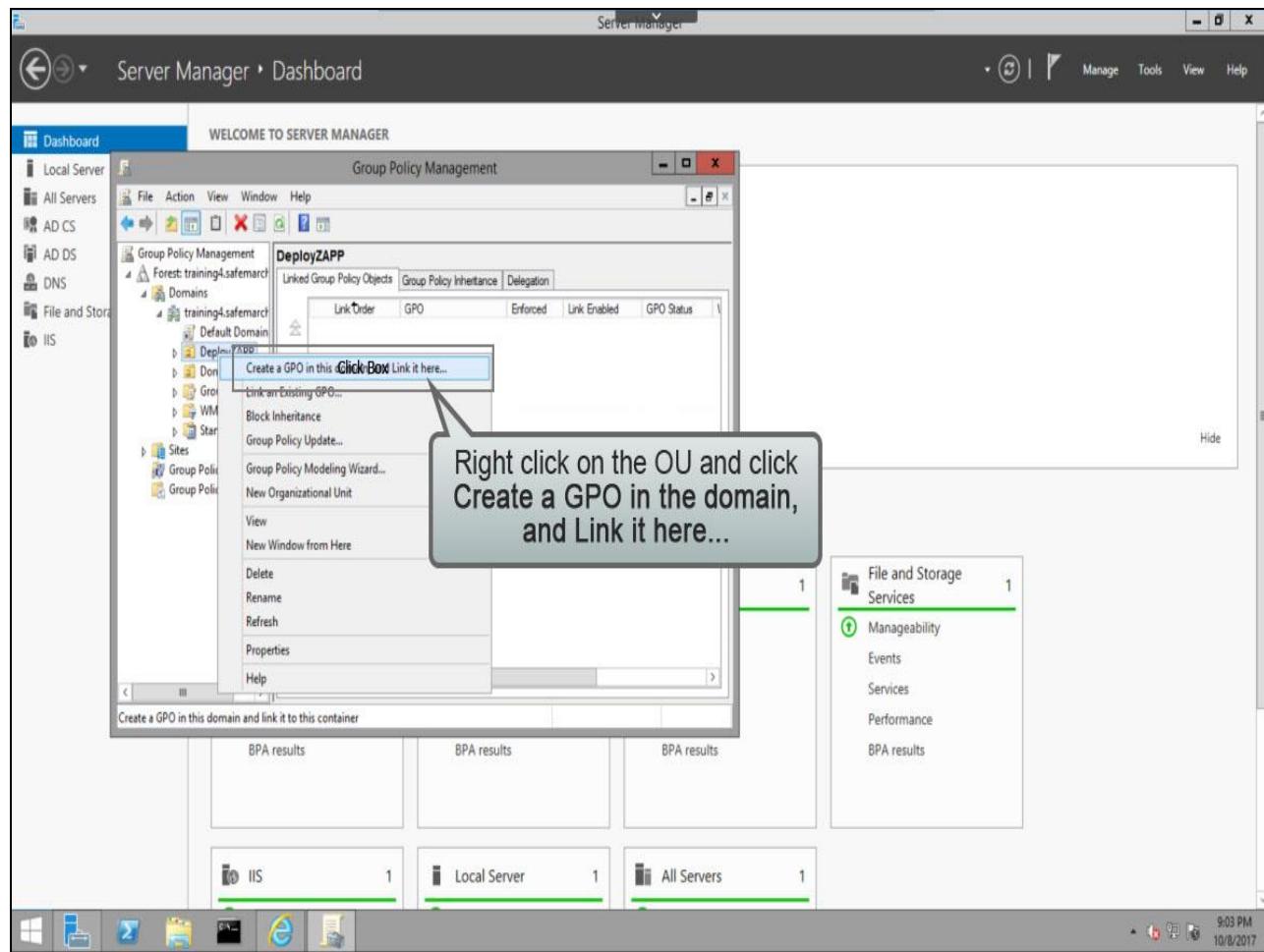
Slide 98 - Slide 98



Slide notes

Expand the **Forest** and select and expand your **Domain**.

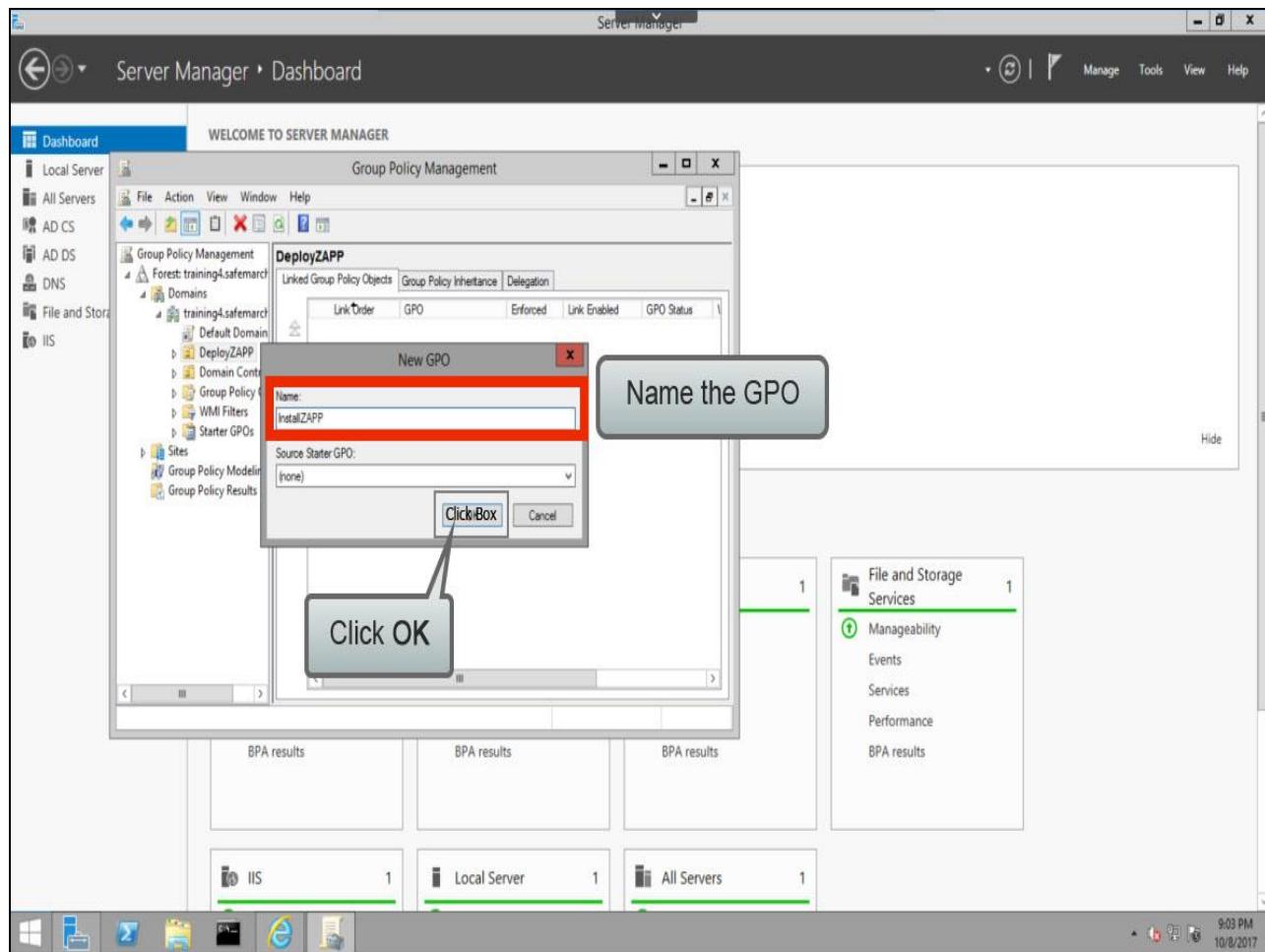
Slide 99 - Slide 99



Slide notes

Right click on the OU that you created earlier, then from the menu click **Create a GPO in the domain and Link it here....**

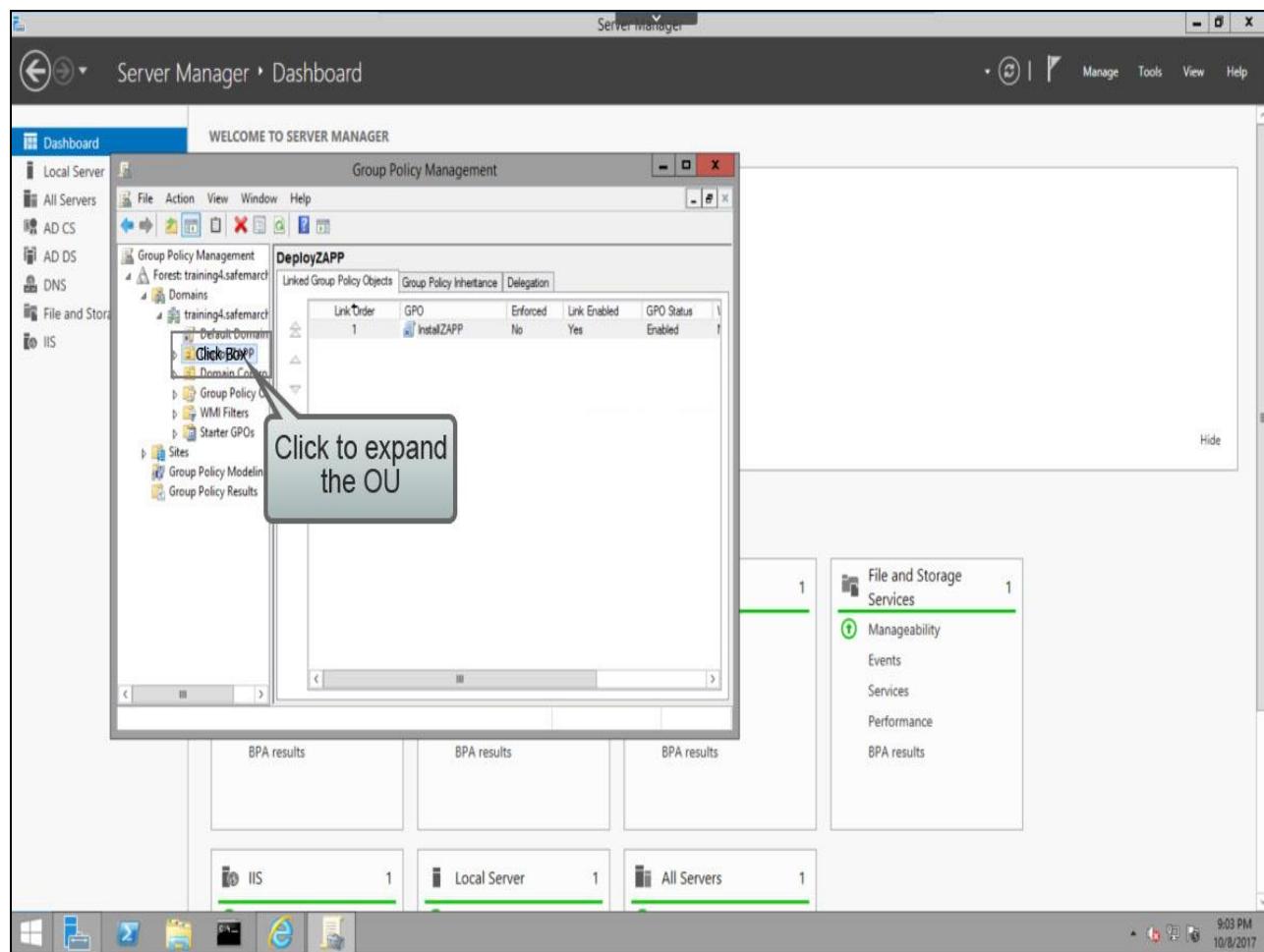
Slide 100 - Slide 100



Slide notes

Give the new GPO a name, and click OK, ...

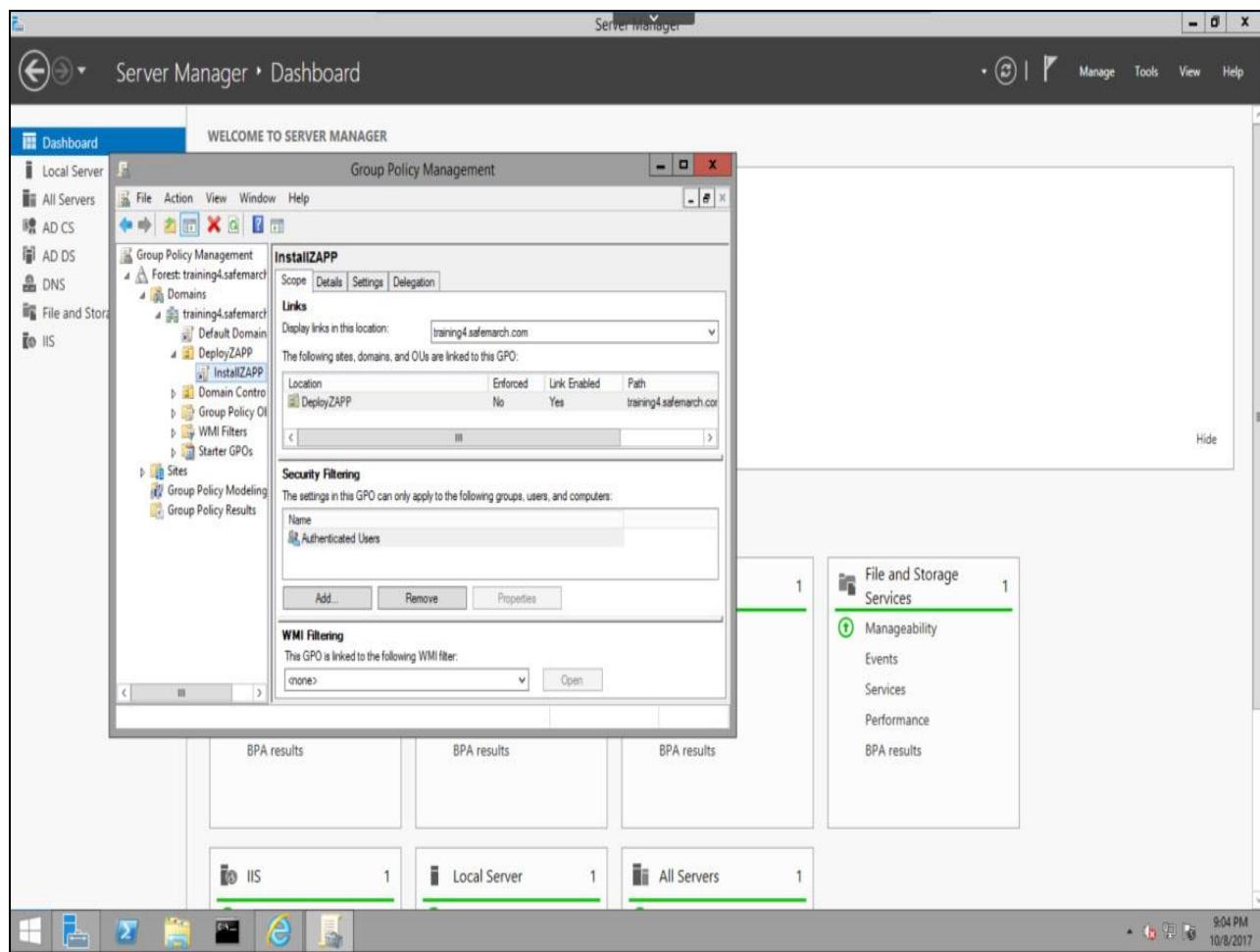
Slide 101 - Slide 101



Slide notes

...then click to expand your OU.

Slide 102 - Slide 102



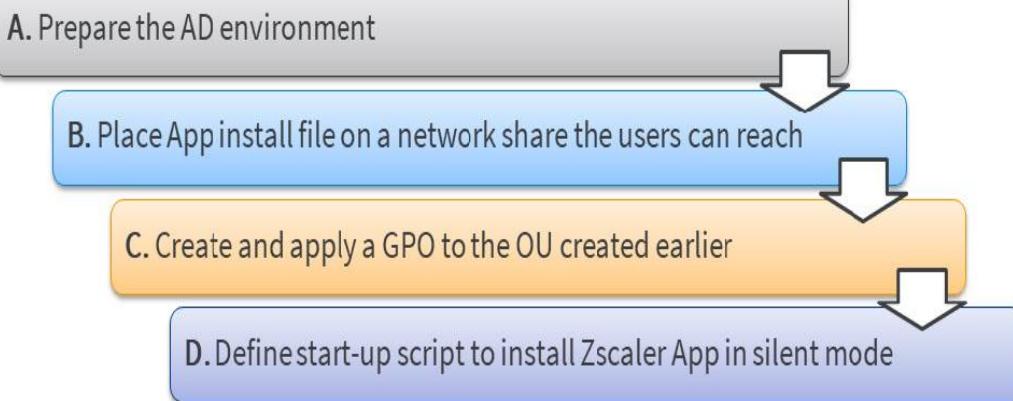
Slide notes

Slide 103 - Deploying the App: Personal Computers (Windows)



Deploying the App: Personal Computers (Windows)

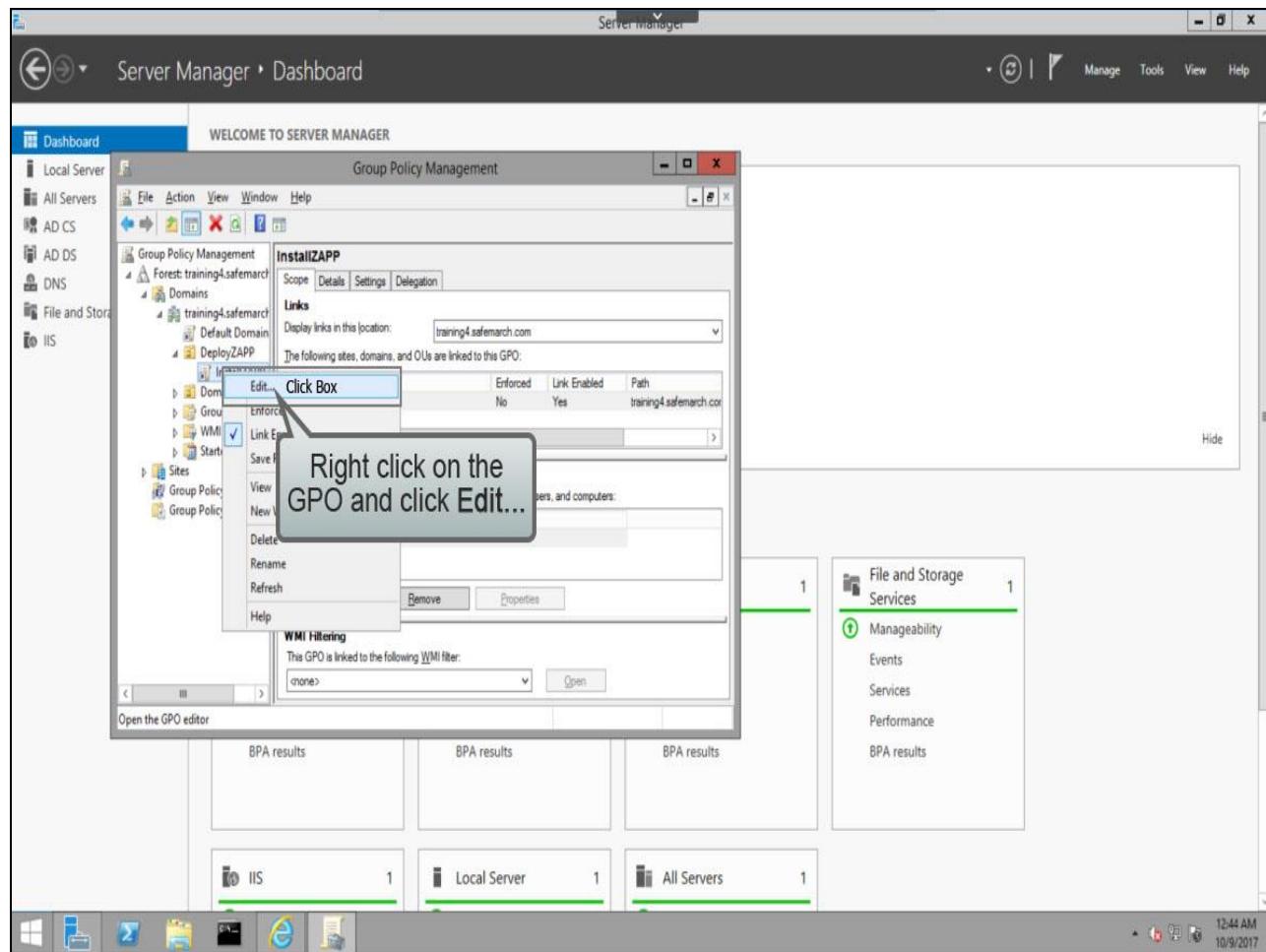
- Deploy using an Active Directory Group Policy Object (GPO)



Slide notes

- D. Next, define a system start-up script to install the Zscaler App in silent mode using either the **.MSI** or **.EXE** options.

Slide 104 - Slide 104

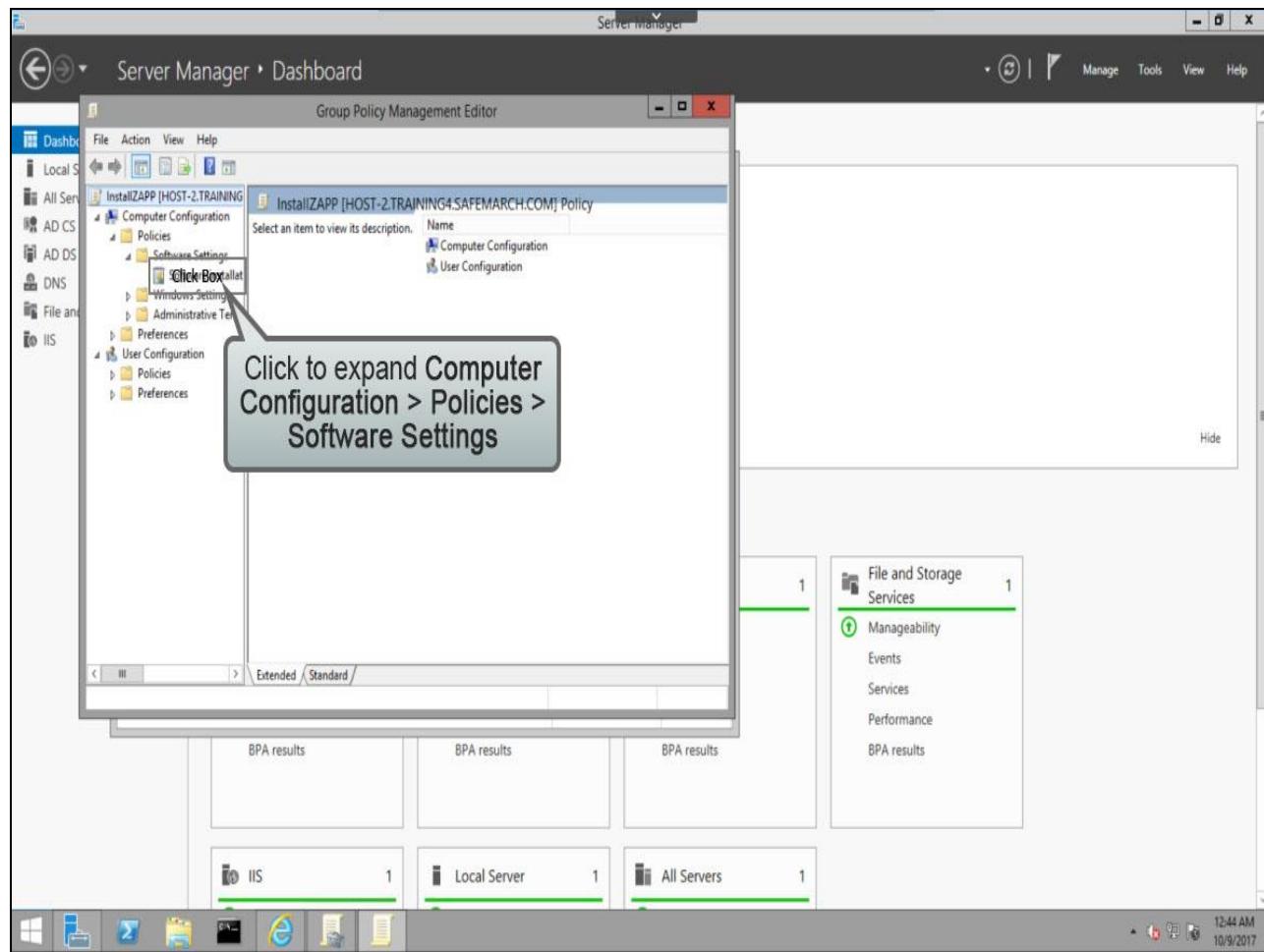


Slide notes

At this point you have a choice as to how to deploy the installer for Windows, you can: Install using the .EXE file with command line options and a startup script for the computers; install using the full set of options available that have been added to a Microsoft .MST file created using **Orca**; or simply install with minimal options using the Microsoft .MSI file.

In this example we will use this last method, to push the install of the Zscaler App with minimal configuration options. Right click on the GPO you created earlier and select **Edit**.

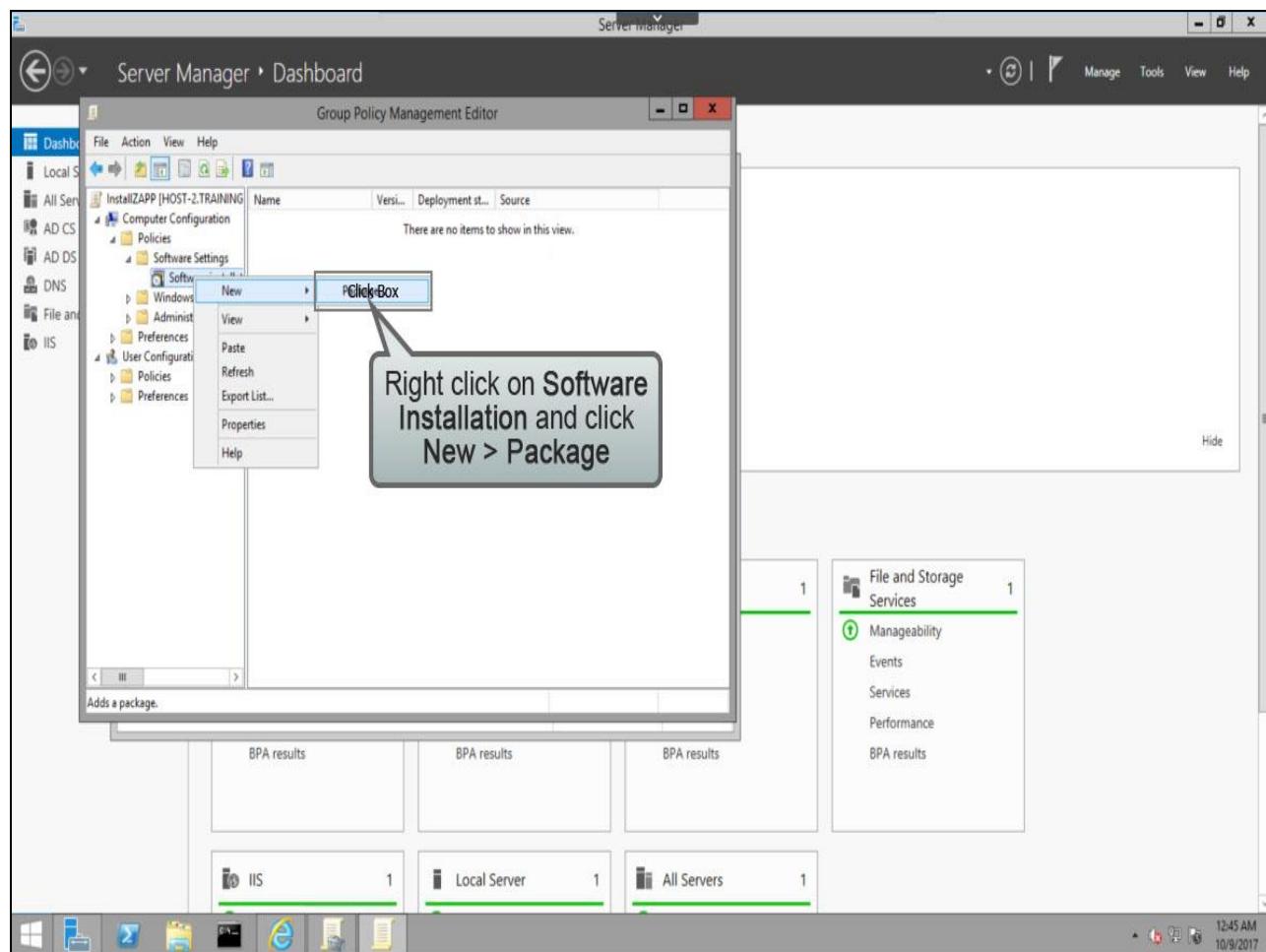
Slide 105 - Slide 105



Slide notes

In the **Group Policy Editor**, expand the **Computer Configuration > Policies > Software Settings** page. Note that in this example we will deploy to the computer (rather than to a specific user), so that the Zscaler App will be available for all users of the PCs it is installed to.

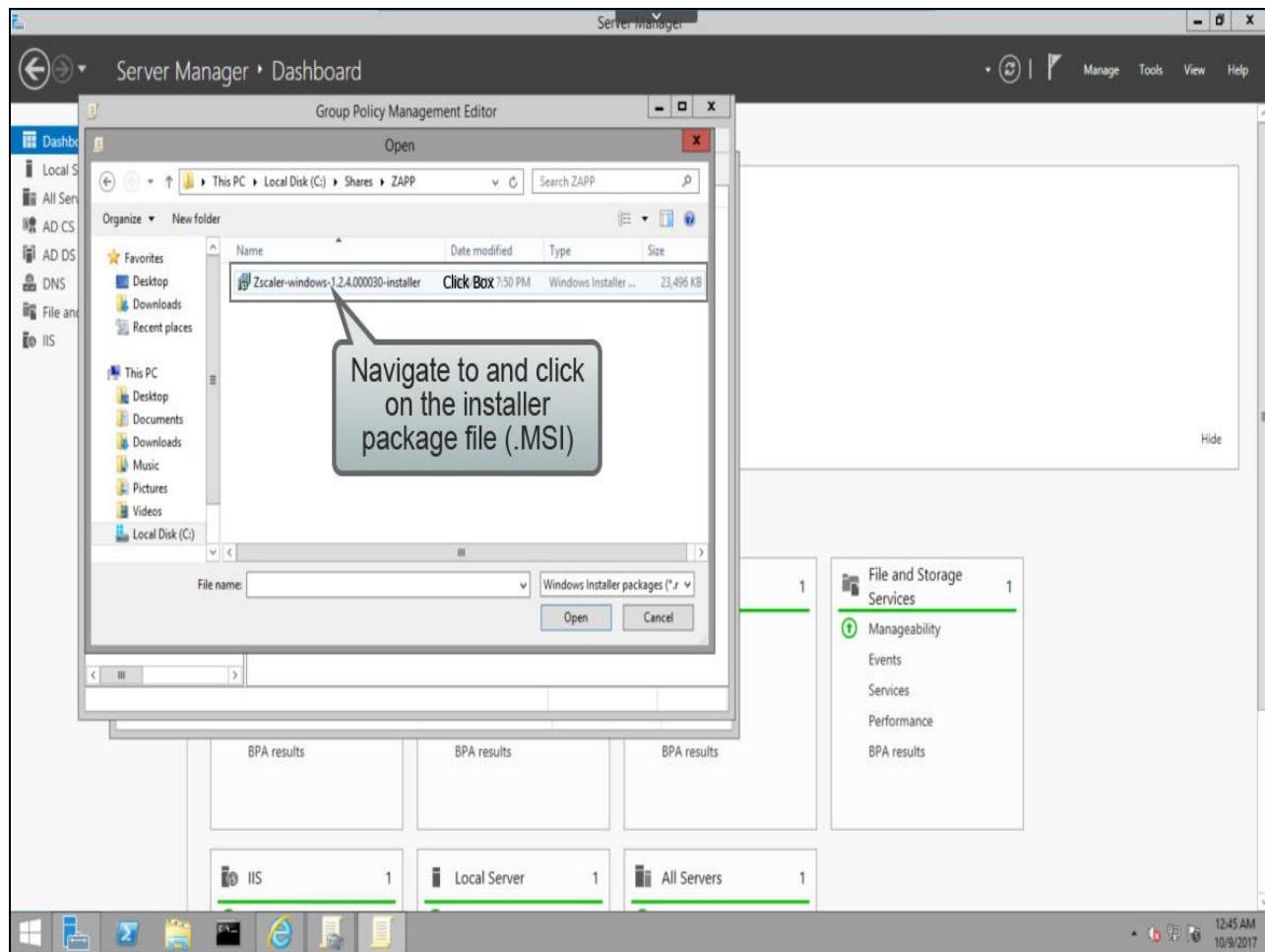
Slide 106 - Slide 106



Slide notes

Right click on **Software Settings** and select **New > Package**.

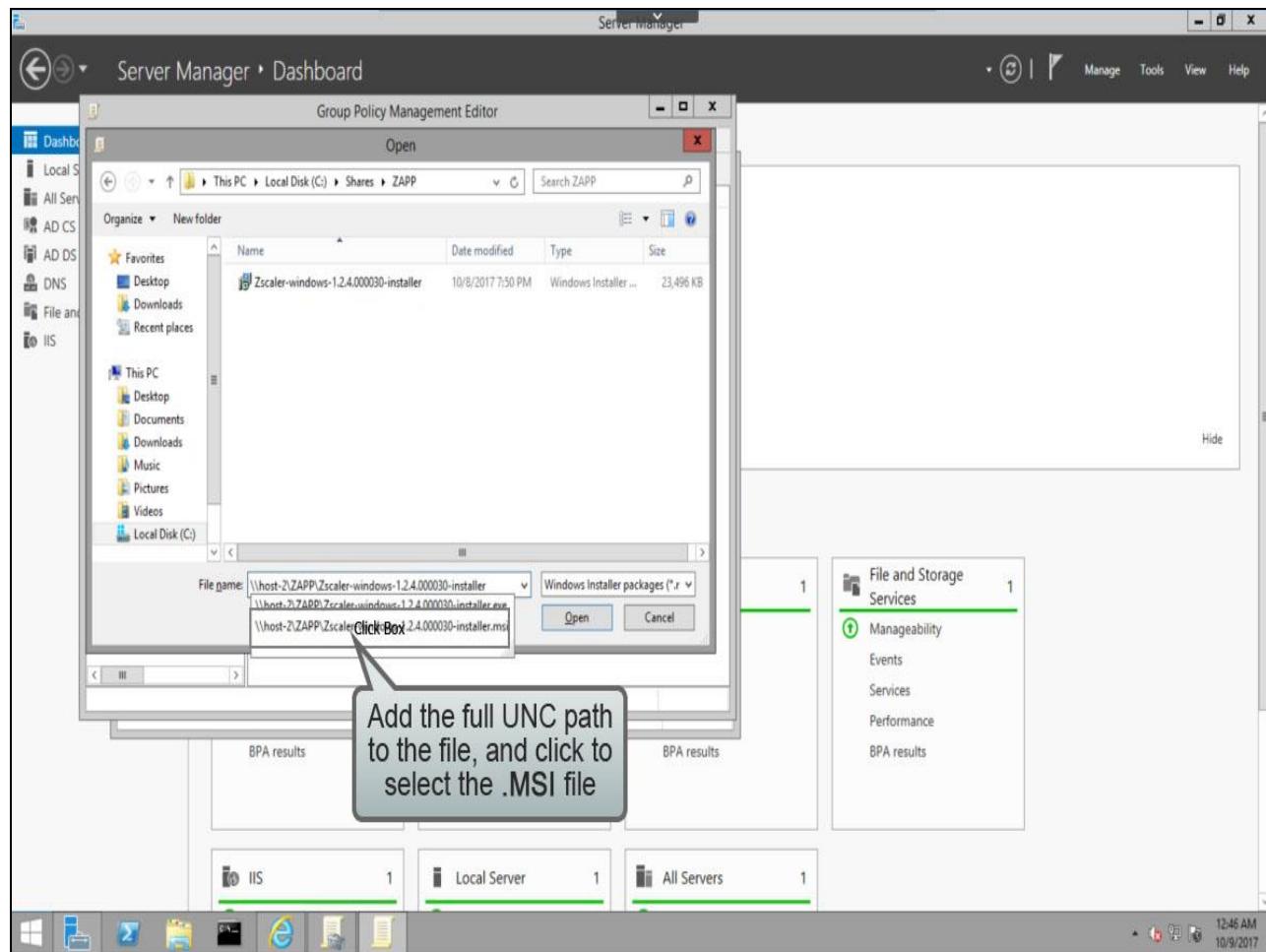
Slide 107 - Slide 107



Slide notes

Navigate to the share you created earlier and select the .MSI installer file that you downloaded to it.

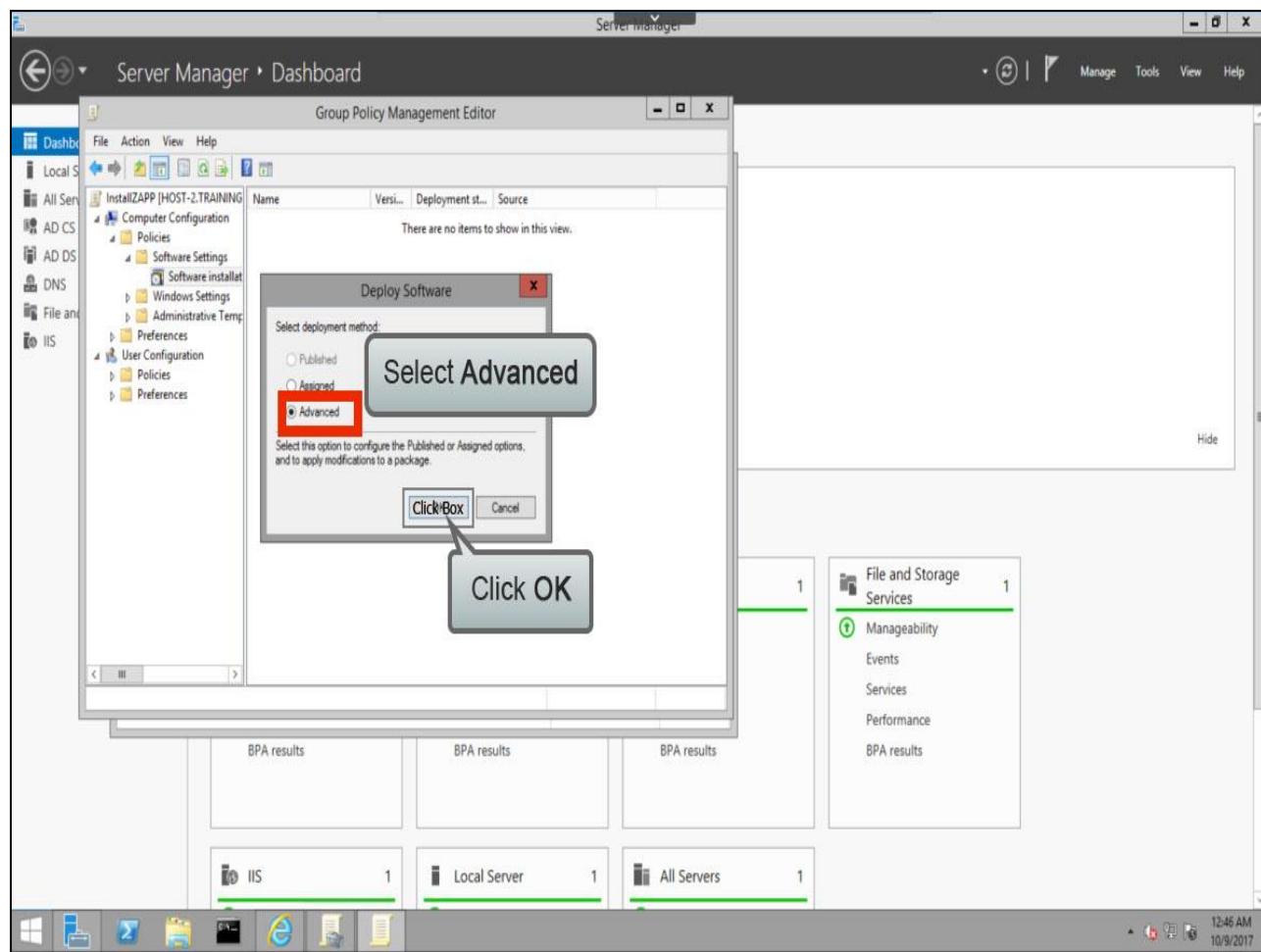
Slide 108 - Slide 108



Slide notes

It is critical to specify a path to the install file that the end user device can reach, this may be a relative path using a mapped drive, or an absolute path using the uniform naming convention (UNC) notation. UNC paths are generally a better option, and this is what we will use in this example. Be sure to select the .MSI installer.

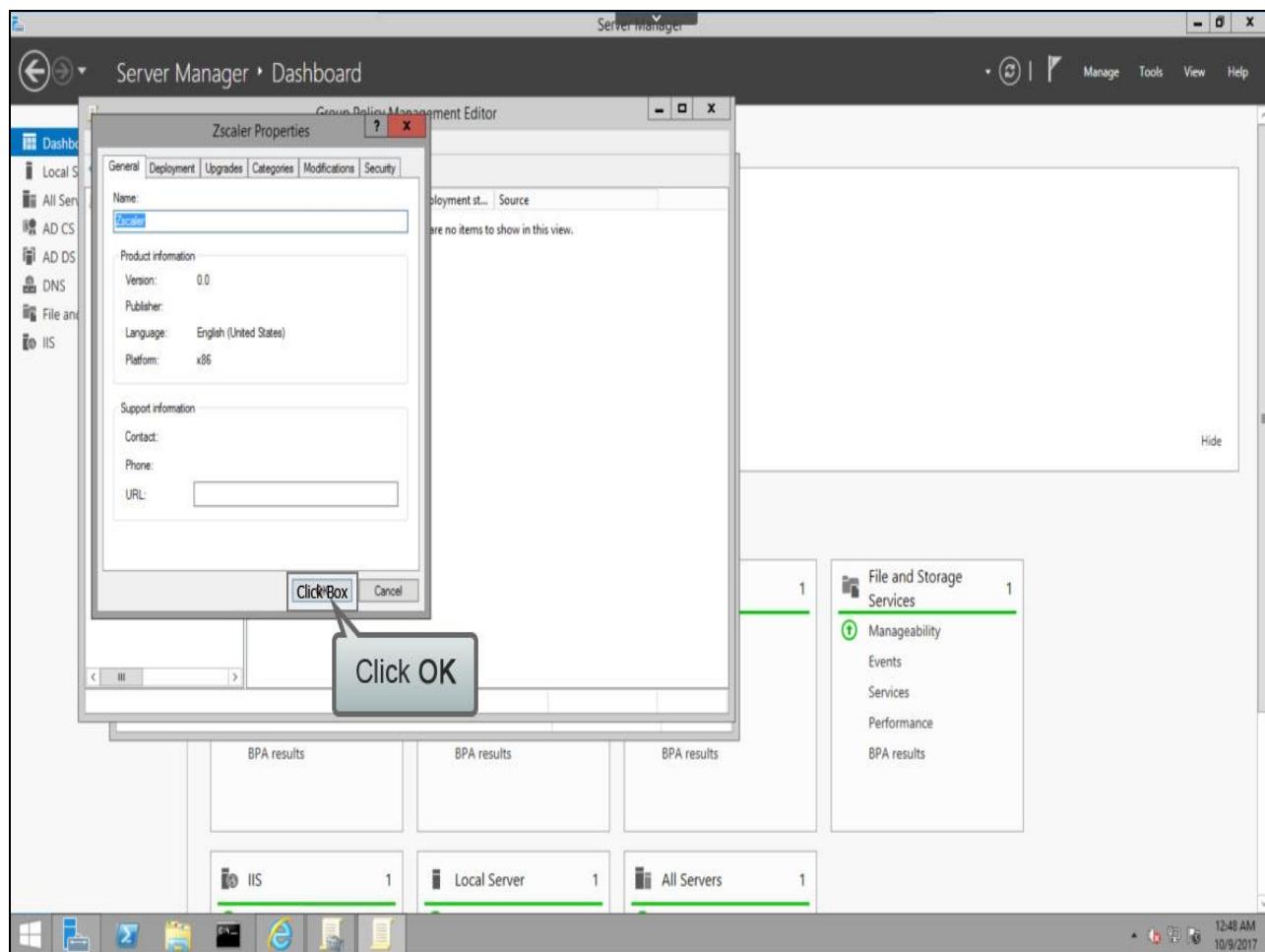
Slide 109 - Slide 109



Slide notes

Select the **Advanced** deployment method, and click **OK**, ...

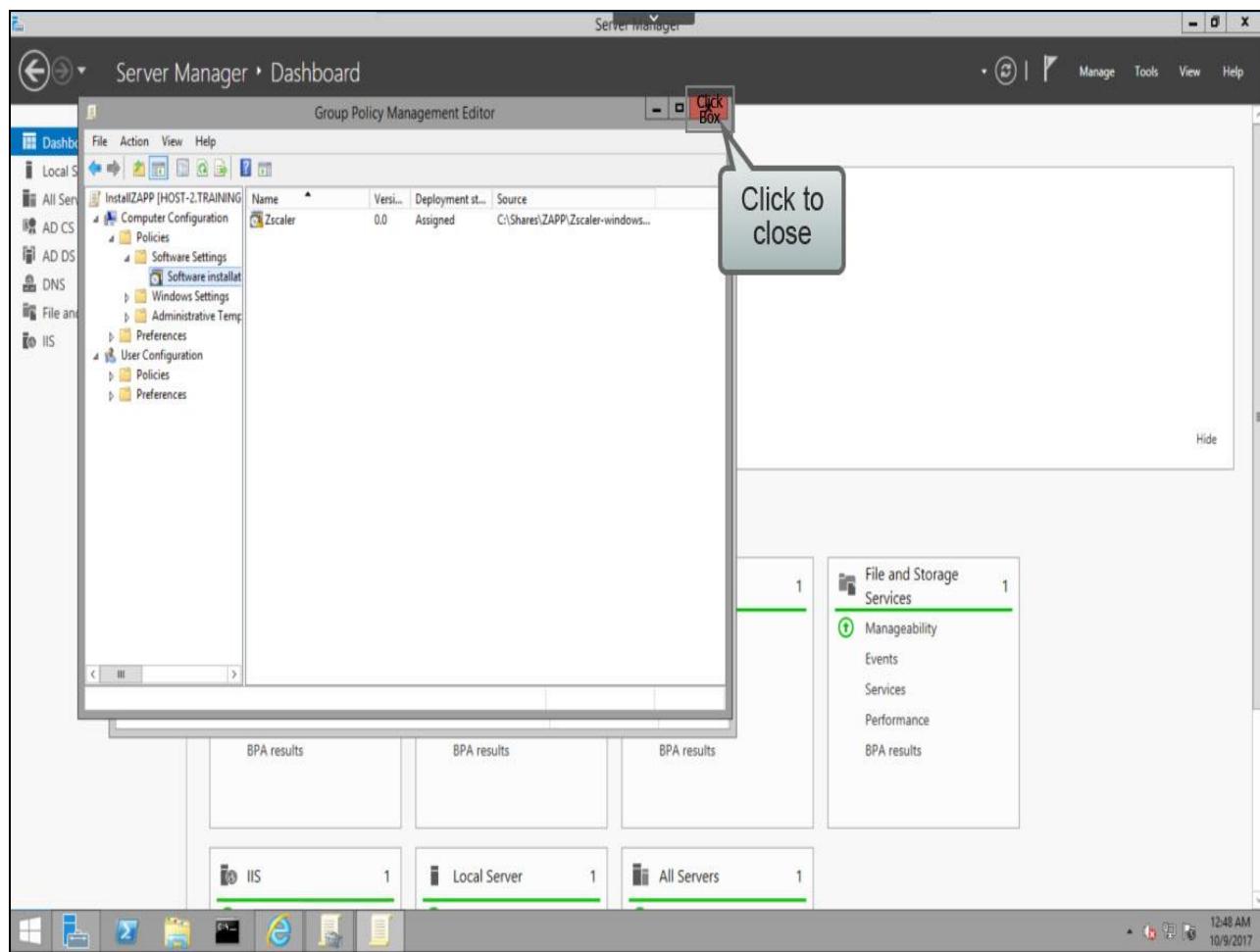
Slide 110 - Slide 110



Slide notes

...then click **OK** again. Note that there are options available within these settings to make the installation silent, however we will not use them for this example so we can see the install taking place. Refer to the Zscaler Support Portal for full details of the install options available.

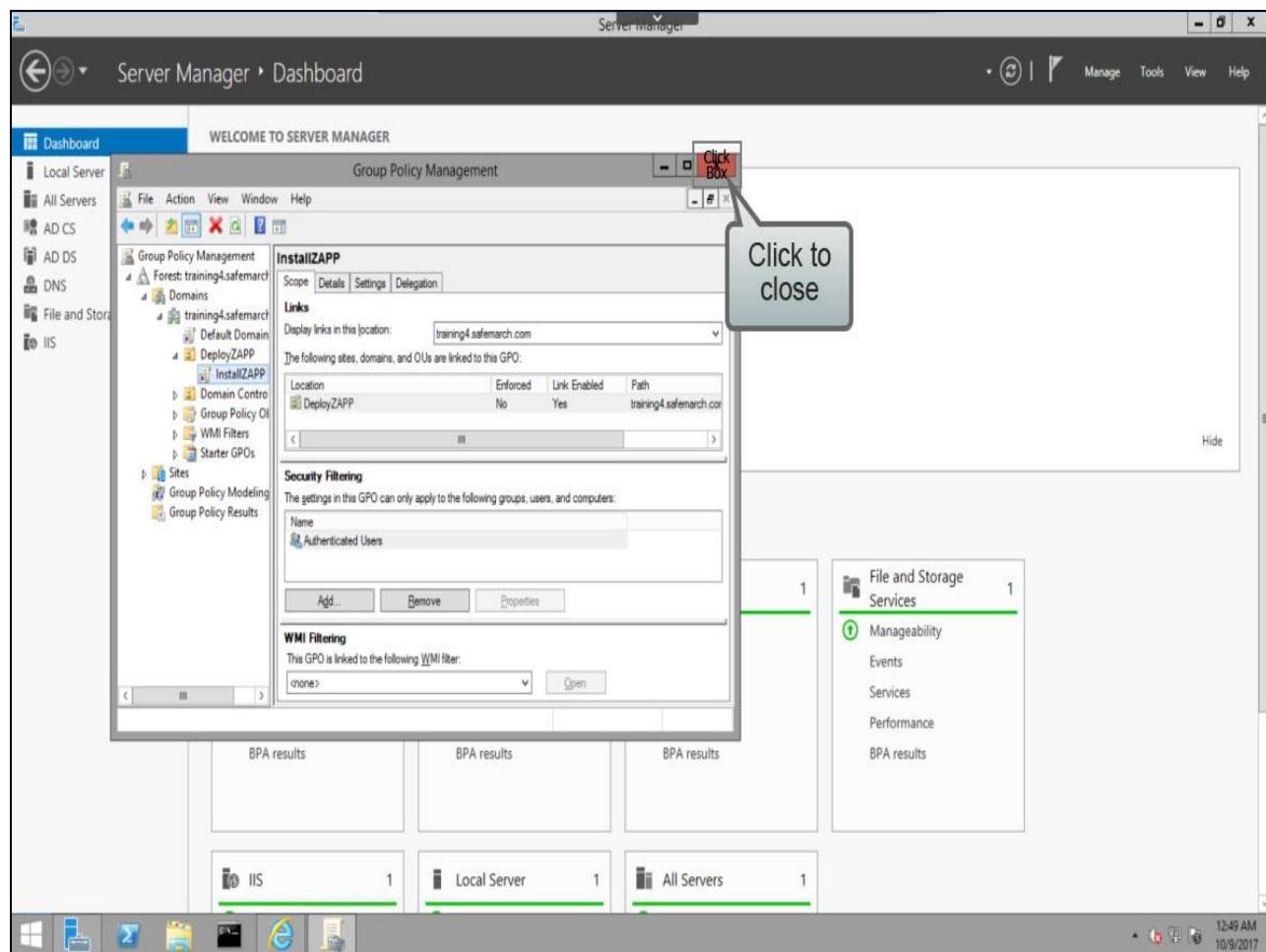
Slide 111 - Slide 111



Slide notes

Then close the **Group Policy Management Editor**, ...

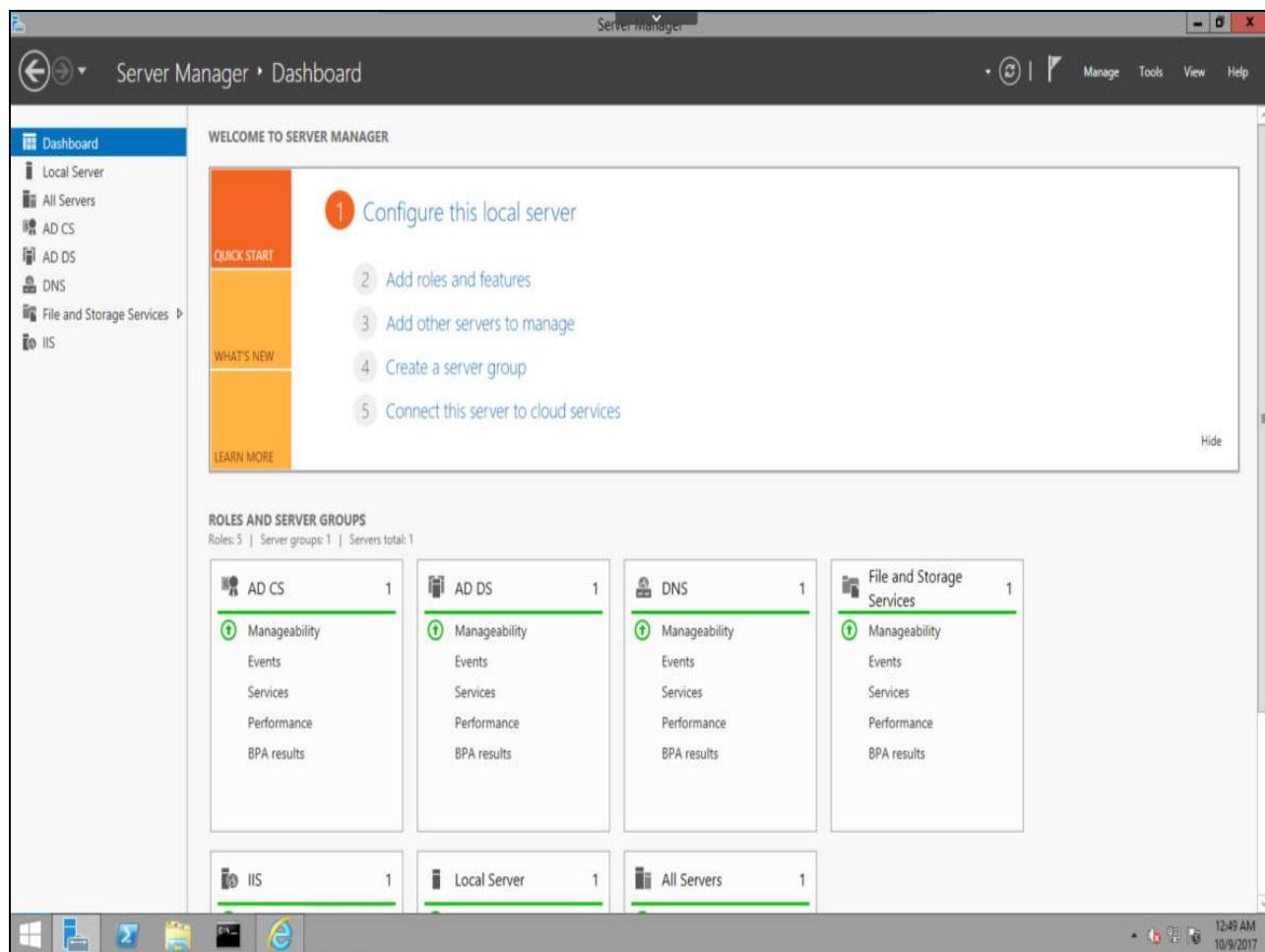
Slide 112 - Slide 112



Slide notes

...and the **Group Policy Management** window.

Slide 113 - Slide 113



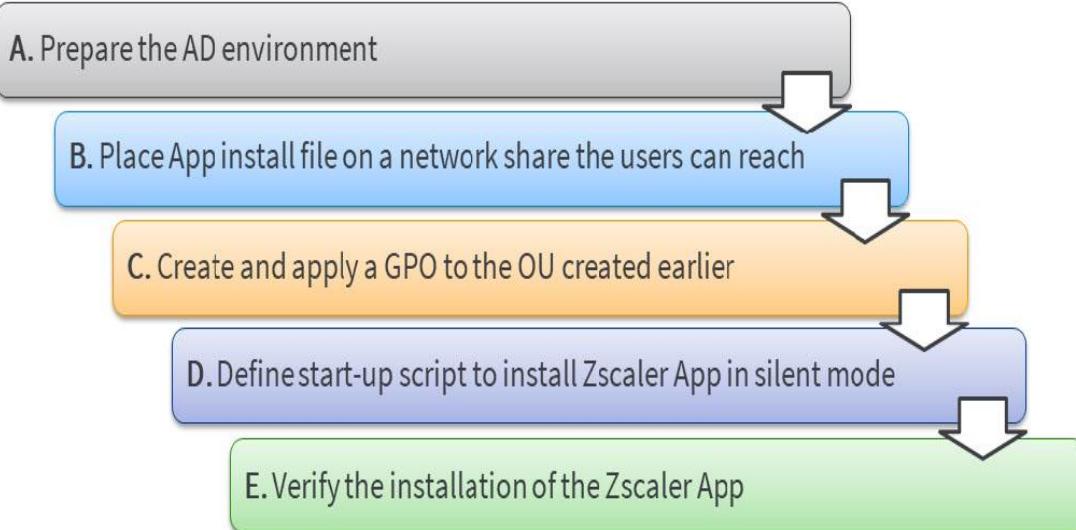
Slide notes

Slide 114 - Deploying the App: Personal Computers (Windows)



Deploying the App: Personal Computers (Windows)

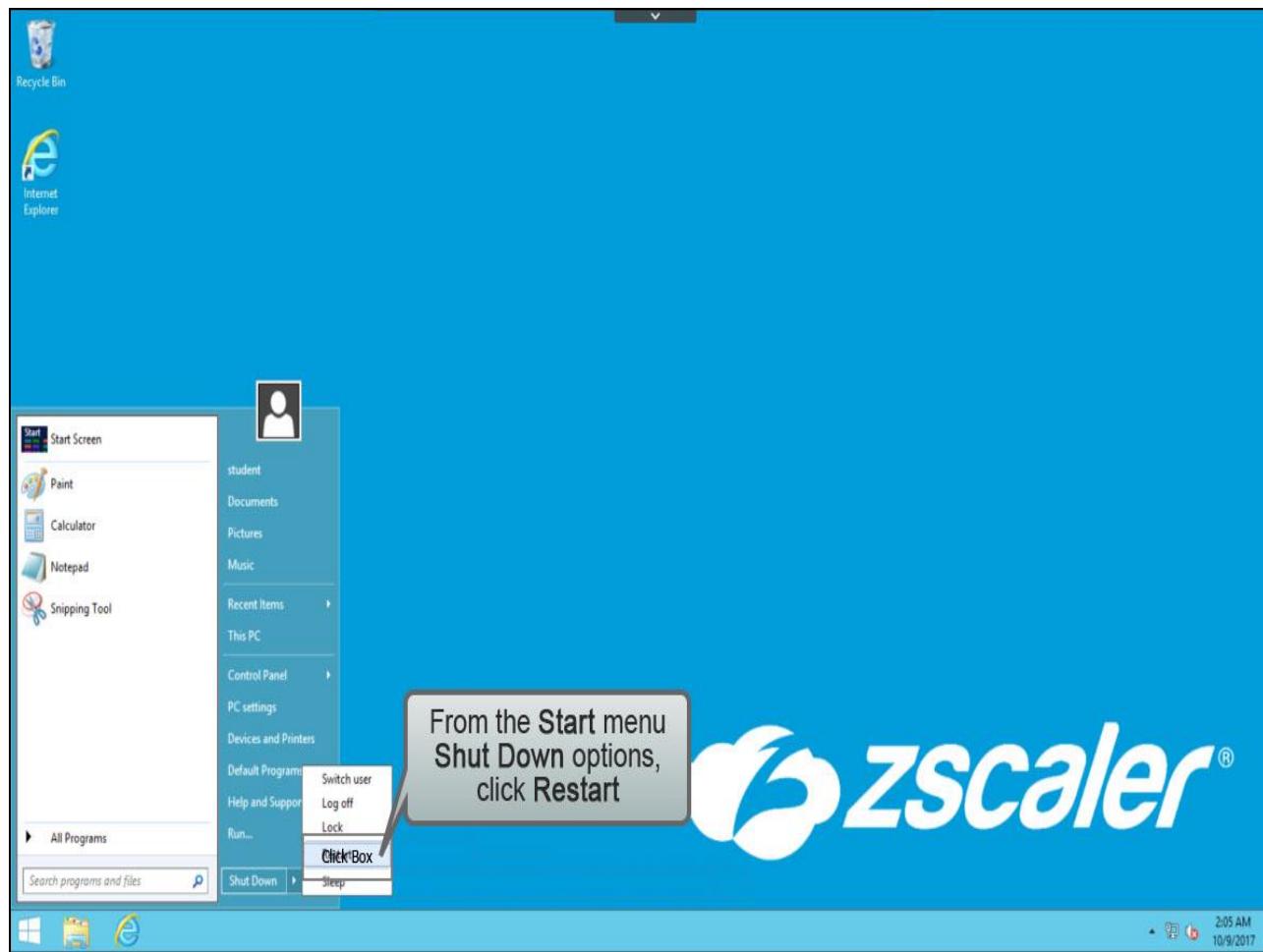
- Deploy using an Active Directory Group Policy Object (GPO)



Slide notes

E. ...and finally, verify the successful installation of the app on the OU's Windows systems.

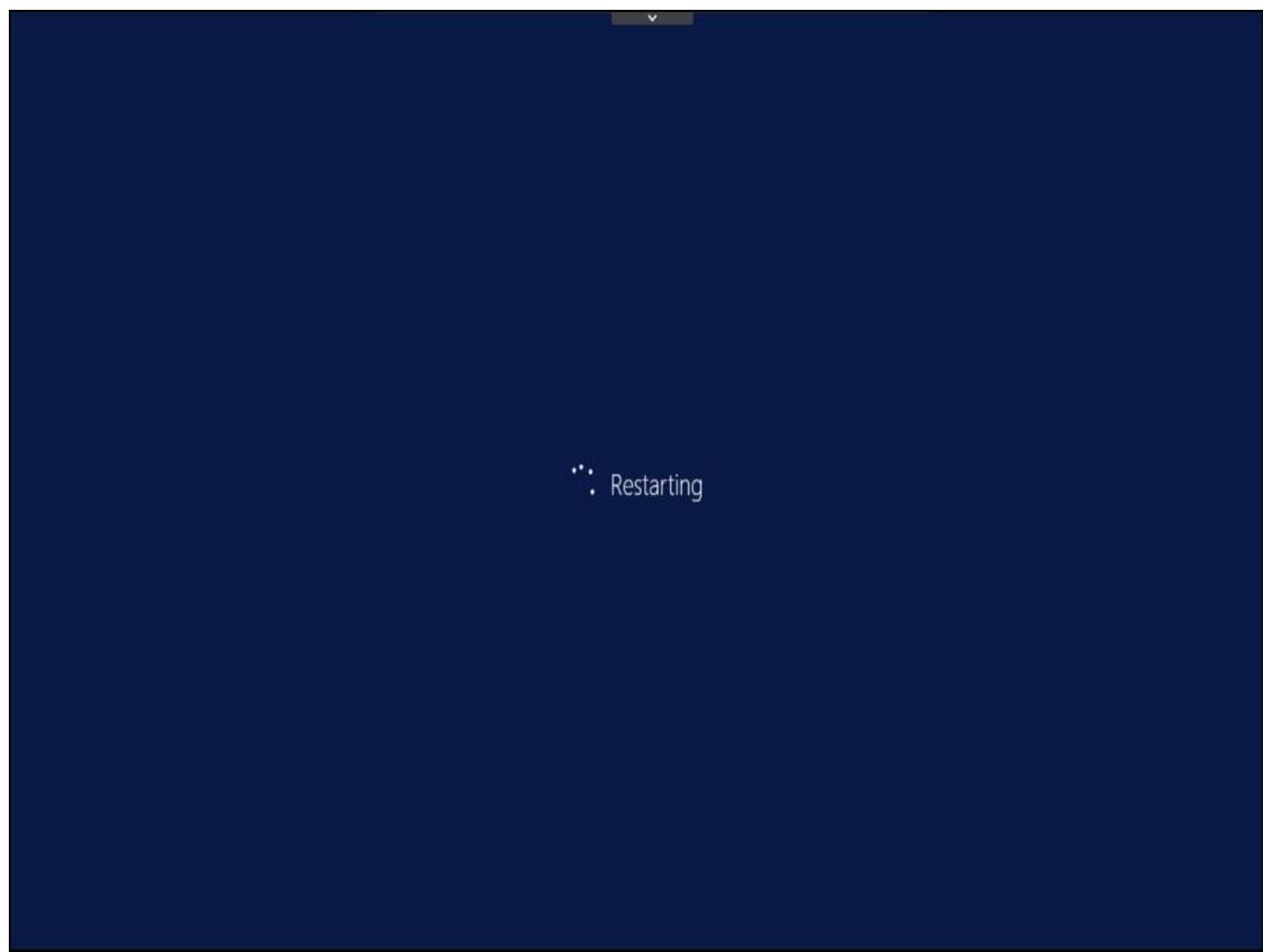
Slide 115 - Slide 115



Slide notes

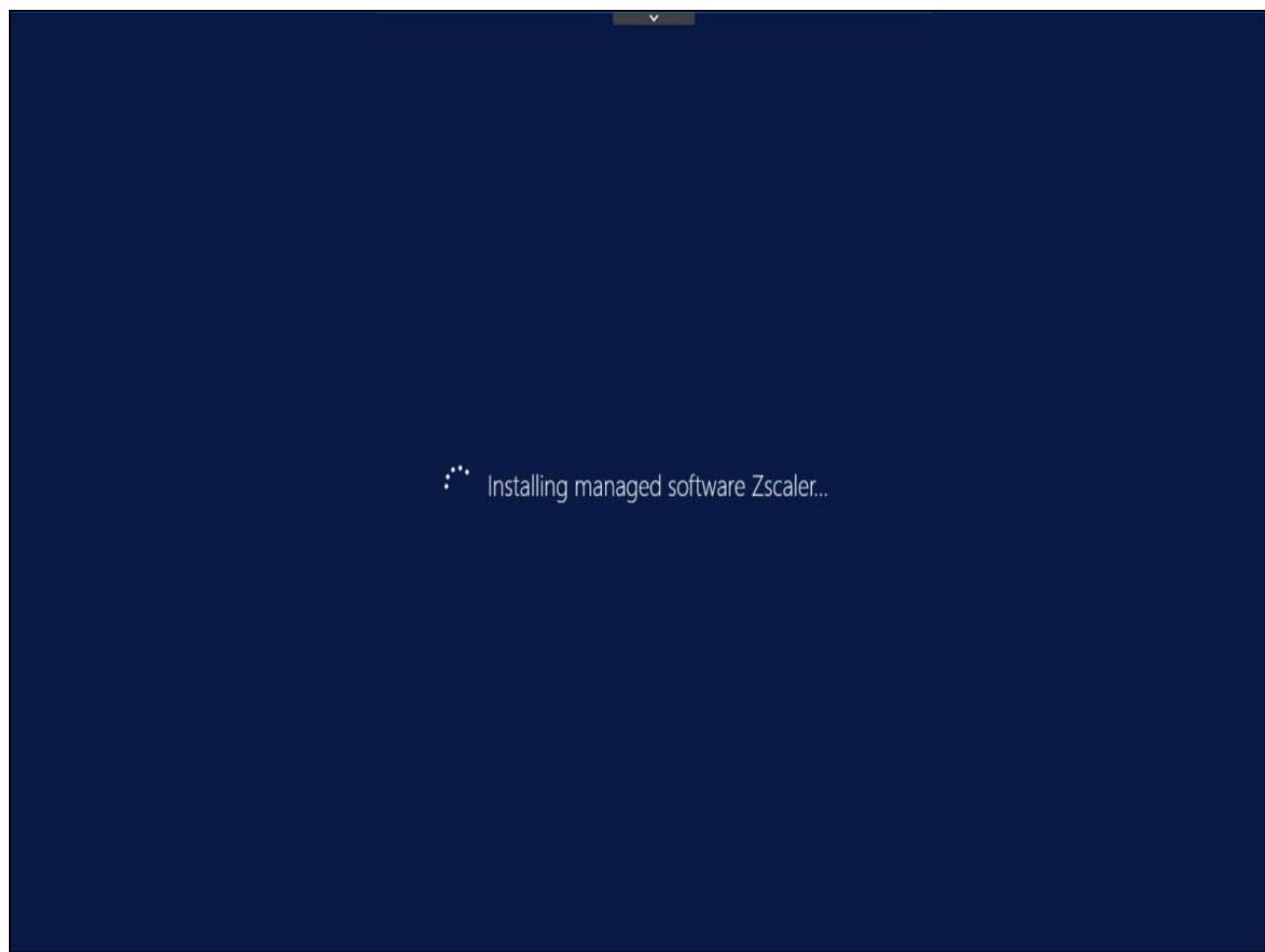
On a Domain-joined client PC, click to **Restart** it from the **Start** menu **Shut Down** options.

Slide 116 - Slide 116



Slide notes

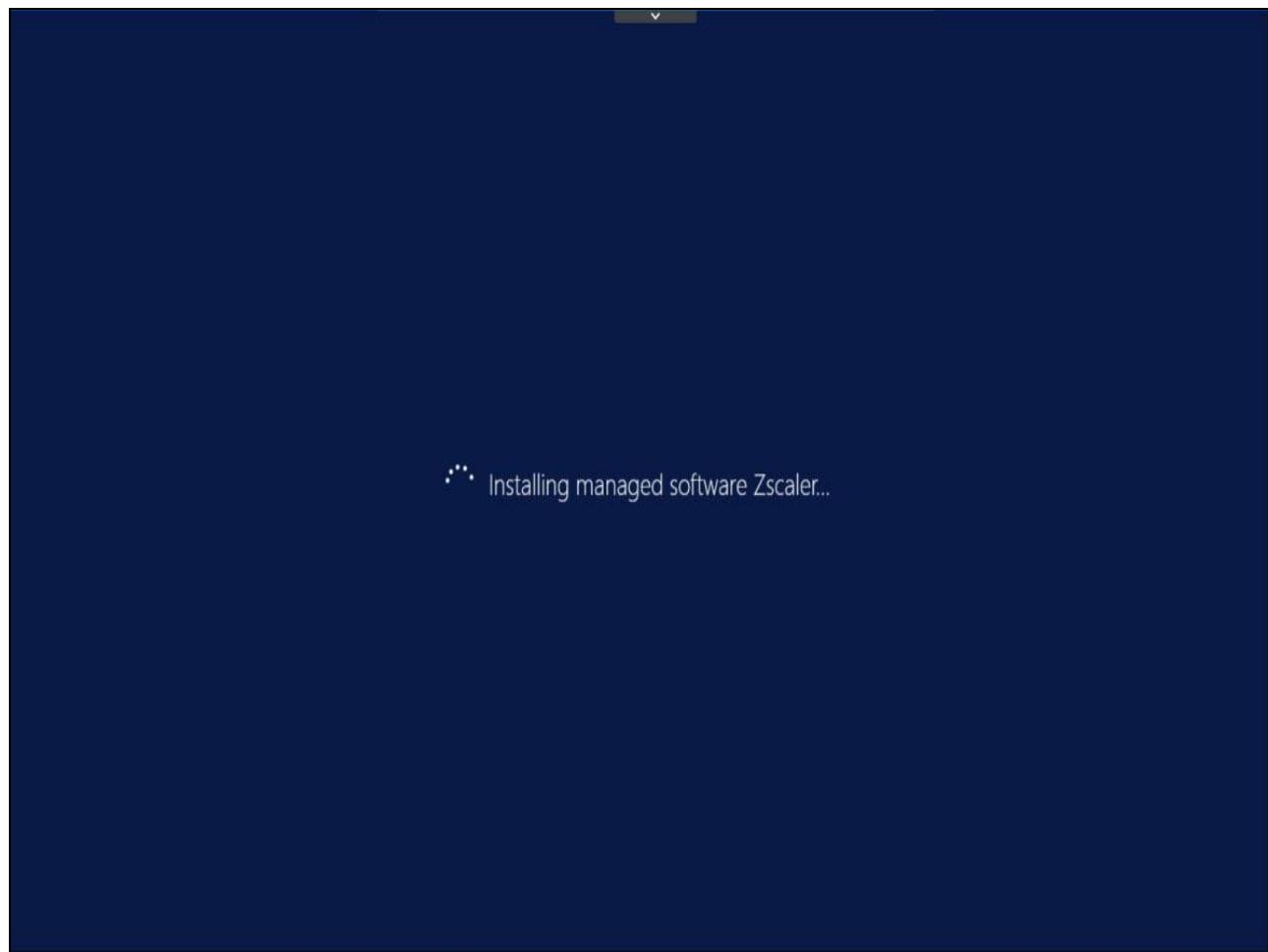
Slide 117 - Slide 117



Slide notes

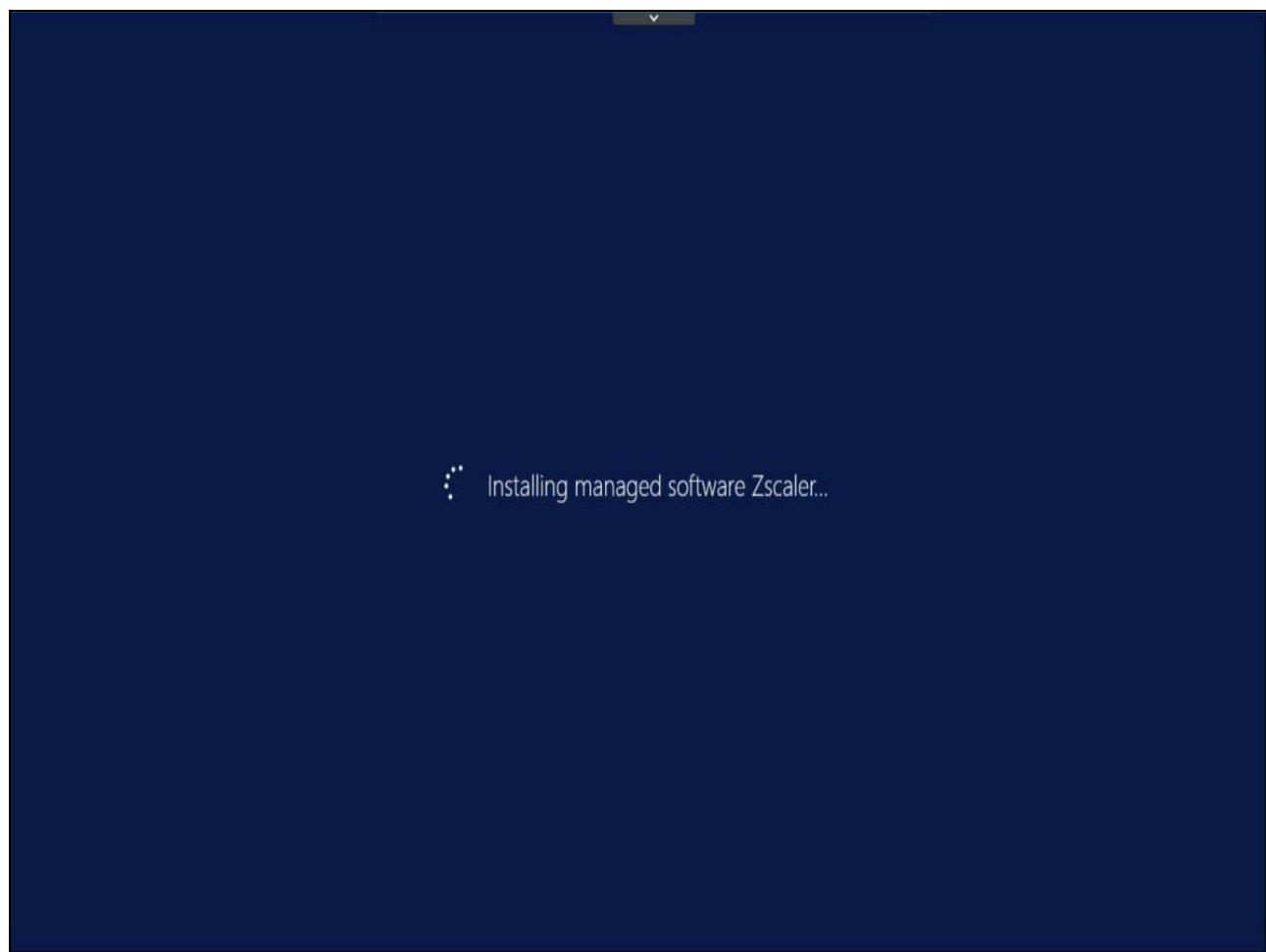
On restart, the Zscaler installer will be pushed to the PC. Note this install messaging can be suppressed using a silent install option.

Slide 118 - Slide 118



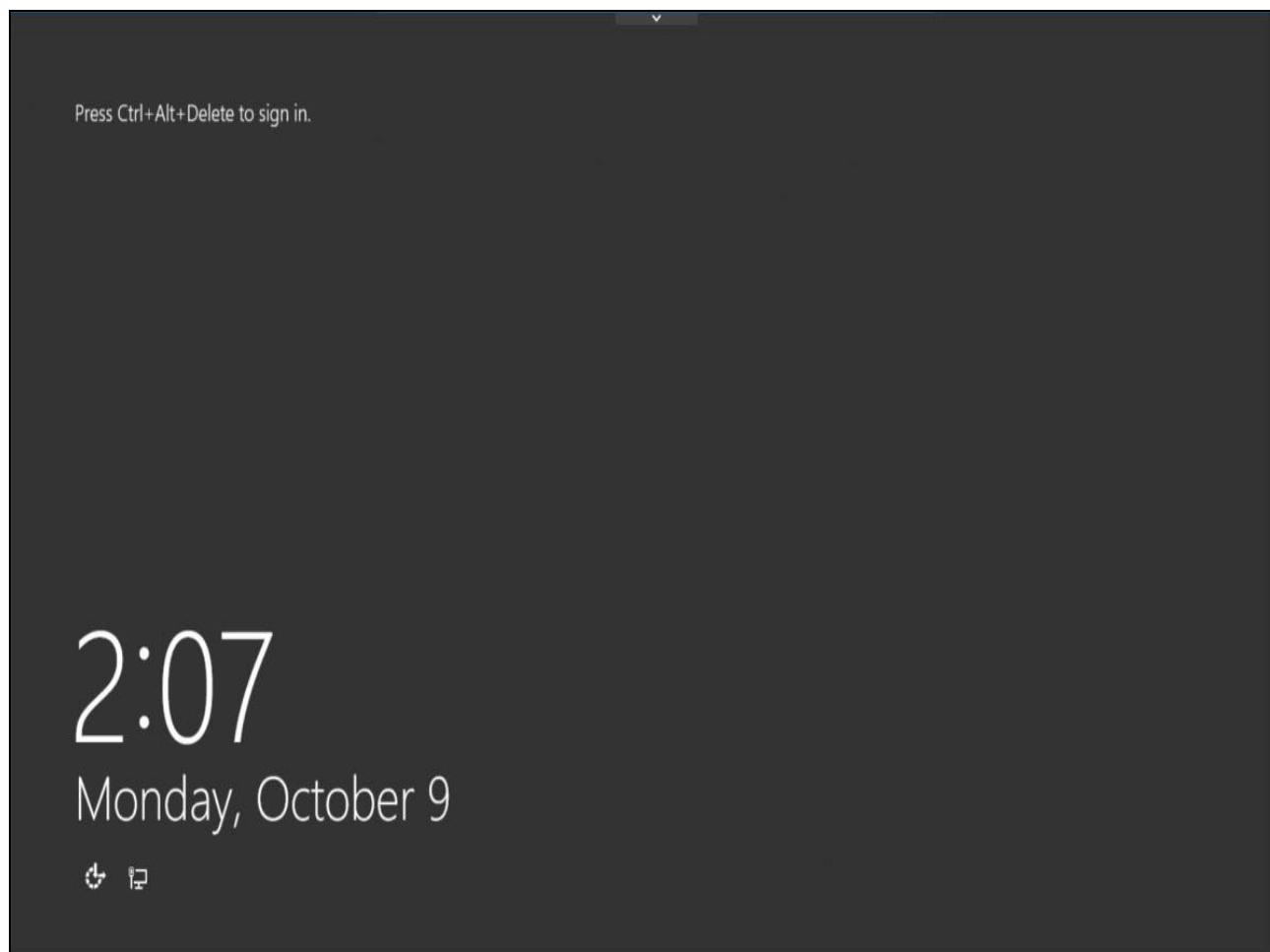
Slide notes

Slide 119 - Slide 119



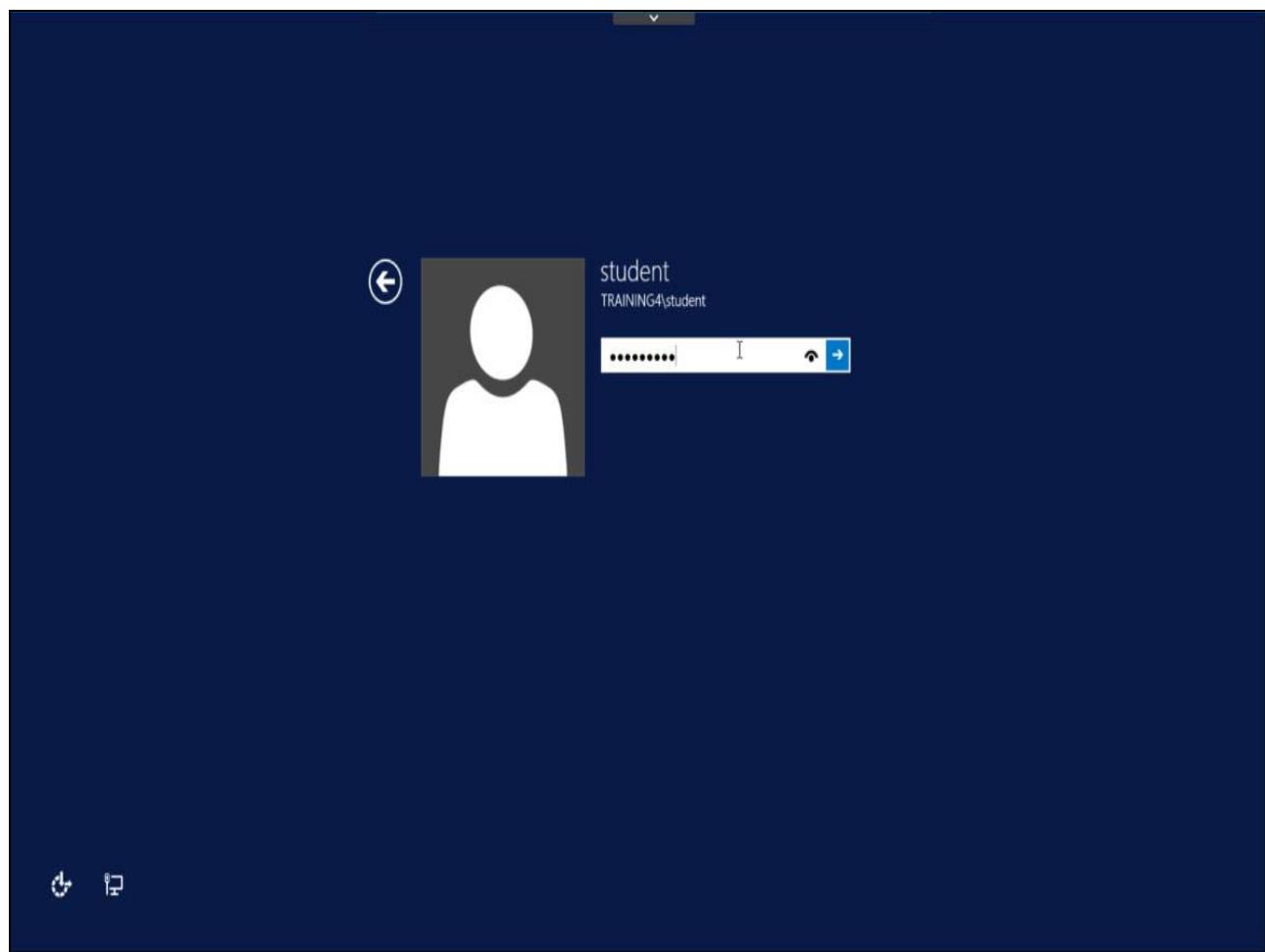
Slide notes

Slide 120 - Slide 120



Slide notes

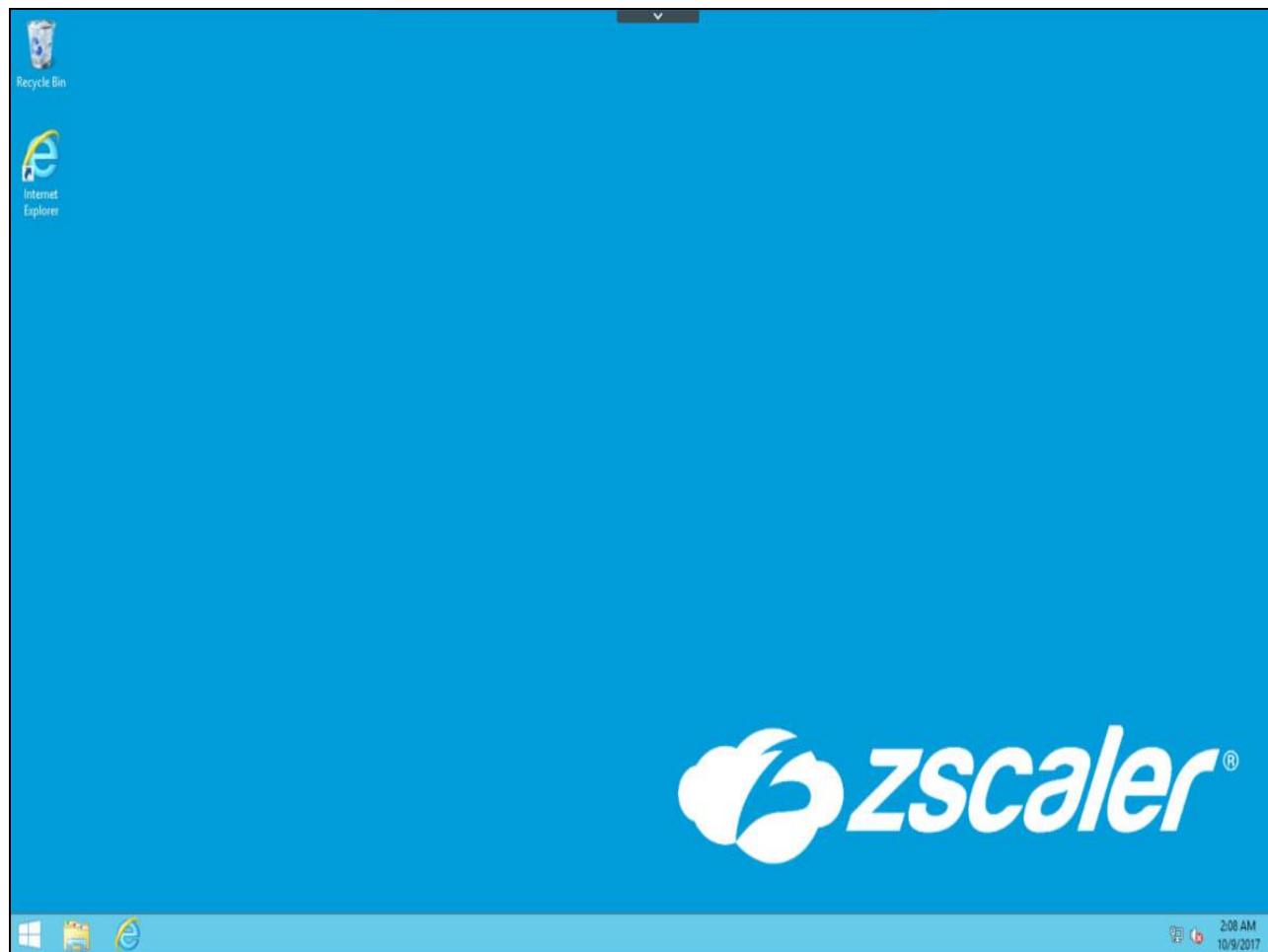
Slide 121 - Slide 121



Slide notes

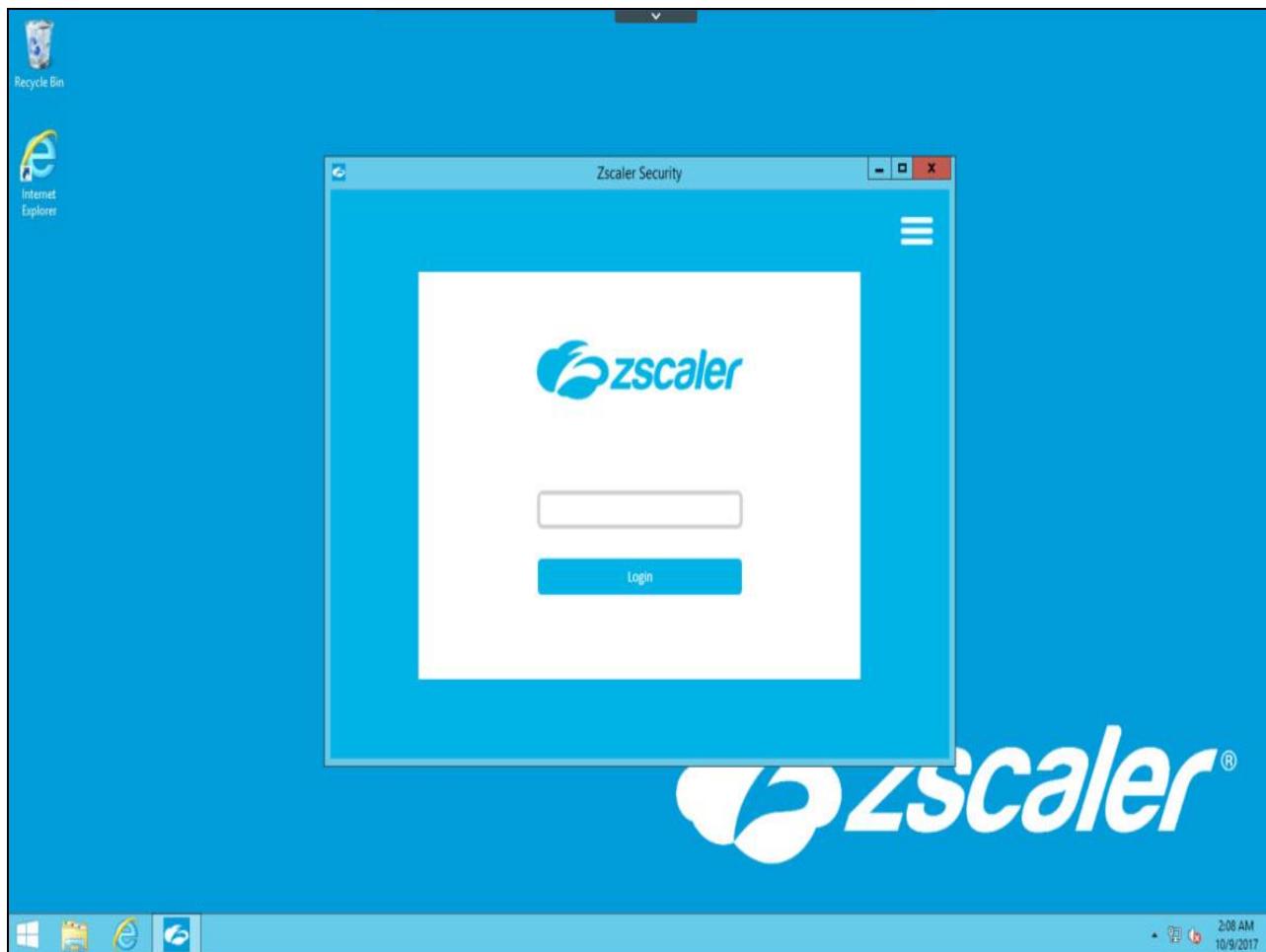
When the user logs back into the machine...

Slide 122 - Slide 122



Slide notes

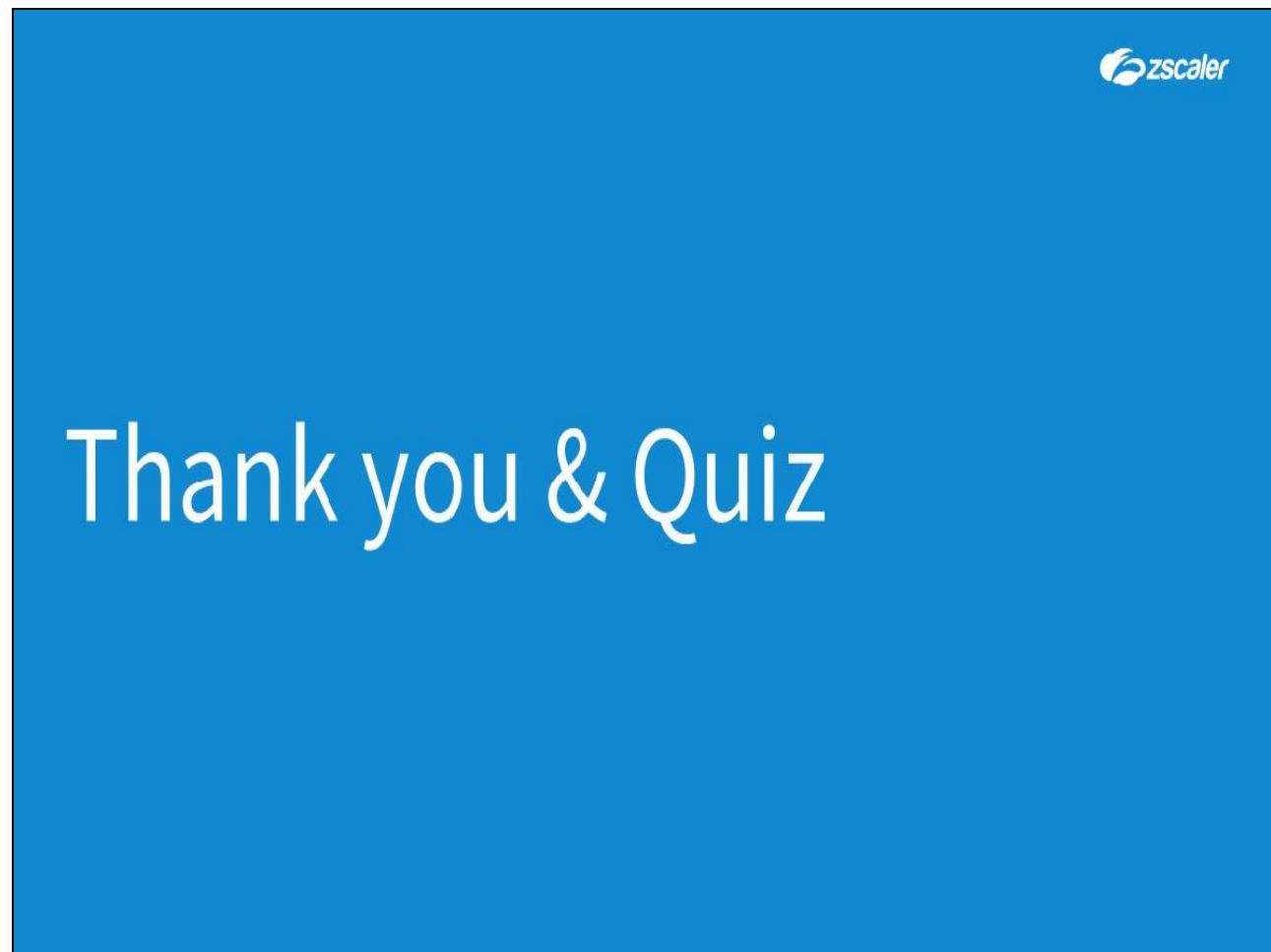
Slide 123 - Slide 123



Slide notes

...they will see the Zscaler App interface, and the prompt to enroll into the app. Note that the enrollment screen can also be made into a silent process with the right combination of install options, either using IWA, or the Zscaler App Portal IdP.

Slide 124 - Thank you & Quiz

**Slide notes**

Thank you for following this Zscaler training module, we hope this module has been useful to you and thank you for your time.

Click the X at top right to close this interface, then launch the quiz to test your knowledge of the material presented during this module. You may retake the quiz as many times as necessary in order to pass.