



7/18/2015

# Cloud Desktop tool

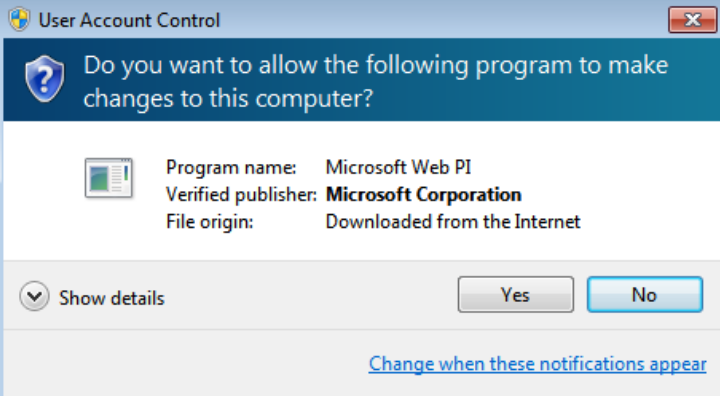
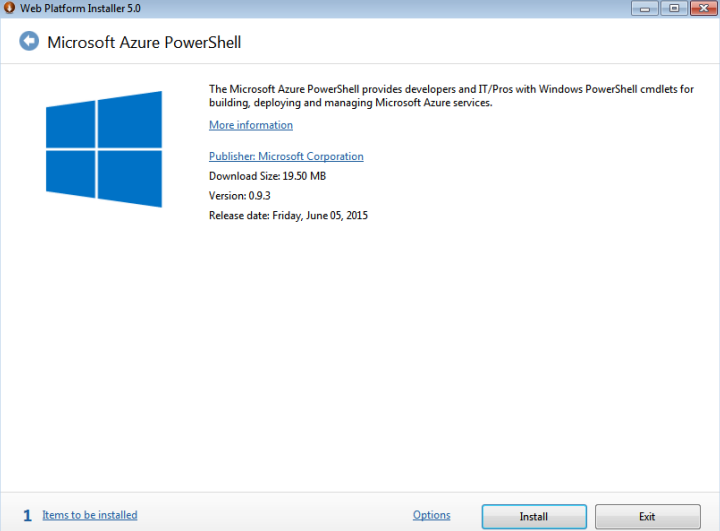
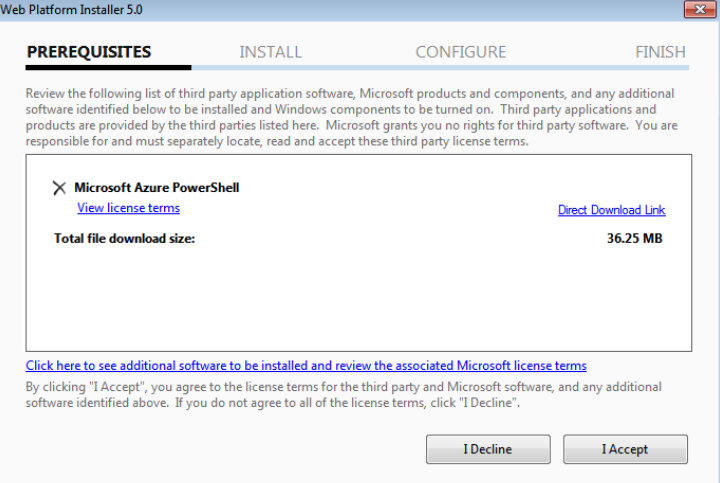
Pels, Charl Pels  
For Cloud Desktop version 1.1

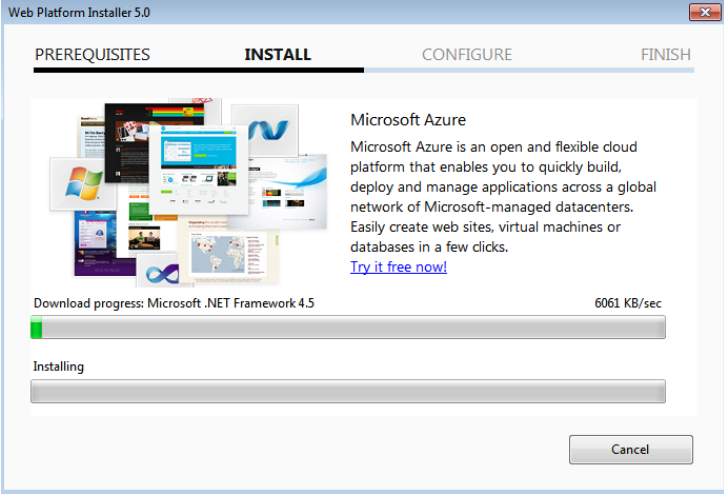
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## Install Application and support tools

### Install azure PowerShell support pack

	<a href="http://go.microsoft.com/fwlink/p/?linkid=320376&amp;clcid=0x413">http://go.microsoft.com/fwlink/p/?linkid=320376&amp;clcid=0x413</a>
 A User Account Control (UAC) dialog box titled "User Account Control". It asks, "Do you want to allow the following program to make changes to this computer?". The program details are: Program name: Microsoft Web PI, Verified publisher: Microsoft Corporation, File origin: Downloaded from the Internet. There are "Yes" and "No" buttons, a "Show details" link, and a "Change when these notifications appear" link at the bottom.	You can see the following popup
 A screenshot of the Web Platform Installer 5.0 window. The title bar says "Web Platform Installer 5.0". The main content area shows "Microsoft Azure PowerShell" with a Windows logo icon. Text describes it as a tool for building, deploying, and managing Microsoft Azure services. It lists the publisher as Microsoft Corporation, download size as 19.50 MB, version as 0.9.3, and release date as Friday, June 05, 2015. At the bottom, there's a progress bar showing "1 Items to be installed" and buttons for "Options", "Install", and "Exit".	Follow the wizard and press install.
 A screenshot of the Web Platform Installer 5.0 window, showing the "PREREQUISITES" tab. It lists "Microsoft Azure PowerShell" as a prerequisite with a download size of 36.25 MB. There are links for "View license terms" and "Direct Download Link". At the bottom, there are "I Decline" and "I Accept" buttons. The window title is "Web Platform Installer 5.0".	Press I Accept

	<p>All needed components will be installed</p>
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<https://azure.microsoft.com/nl-nl/documentation/articles/powershell-install-configure/>

Download and run the Cloud Desktop tool

You can download the latest version of the tool from the cloud desktop website.

<http://www.cpels.nl/cloud-desktop>

Source code can be found on github <https://github.com/CharlPels/CloudDesktop>

## Using the Cloud Desktop tool

### Using the tool with Microsoft Azure

#### Activate your Azure account

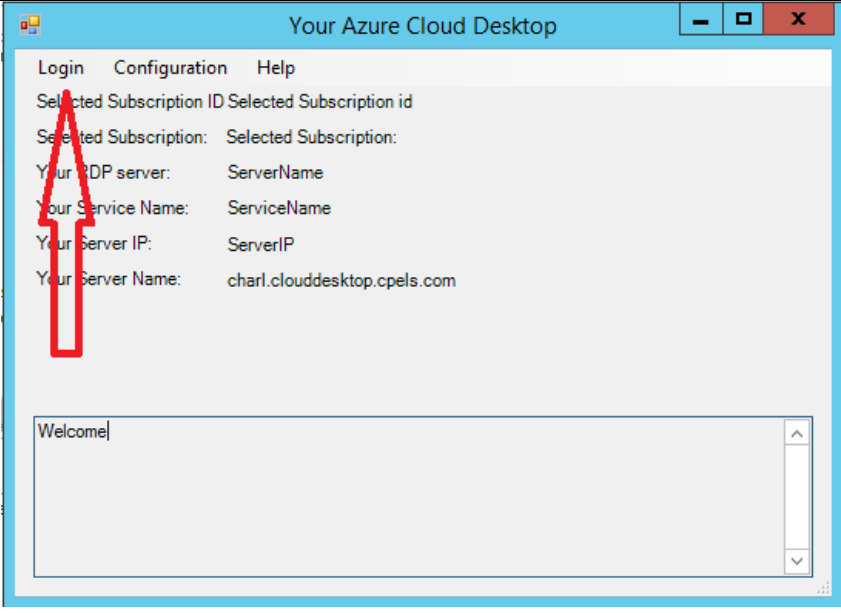
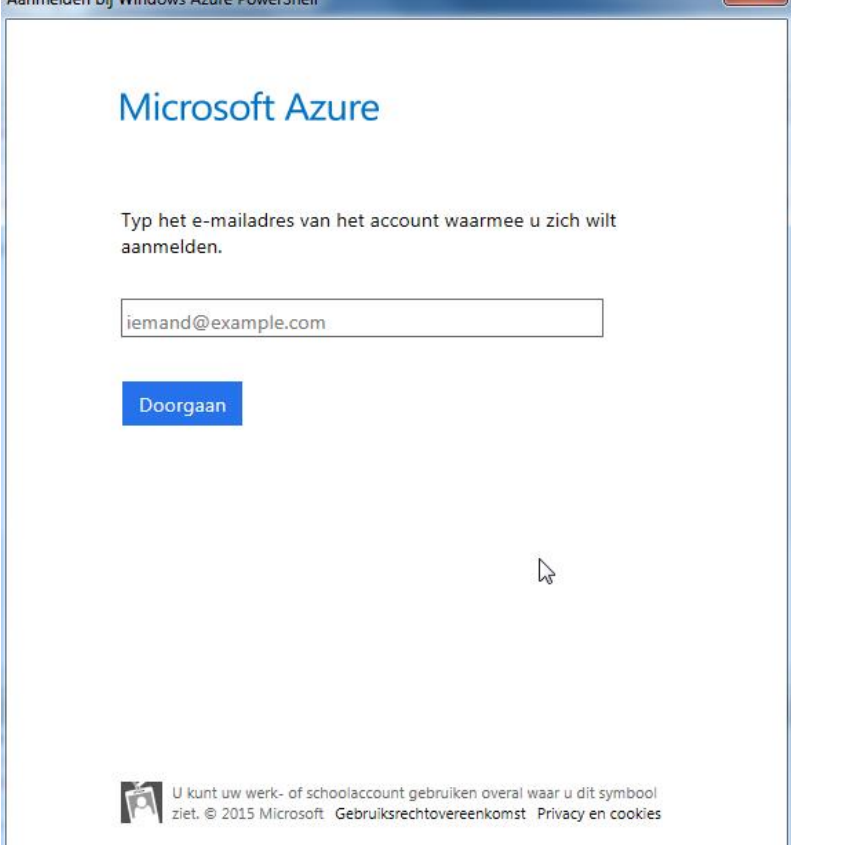
##### *Activating Azure for MSDN accounts (Free)*



	<a href="http://azure.microsoft.com/nl-nl/pricing/member-offers/msdn-benefits/">http://azure.microsoft.com/nl-nl/pricing/member-offers/msdn-benefits/</a>  Press Activate your free benefits
	Need to update this part

##### *Creating a trail Azure account (Free)*

	Need to make this part

## Login to Azure

 <p>The screenshot shows a window titled "Your Azure Cloud Desktop" with a menu bar containing "Login", "Configuration", and "Help". Below the menu, there are labels for "Selected Subscription ID", "Selected Subscription id", "Your RDP server:", "Your Service Name:", "Your Server IP:", and "Your Server Name:". The values for these labels are "Selected Subscription id", "Selected Subscription:", "ServerName", "ServiceName", "ServerIP", and "charl.clouddesktop.cpels.com" respectively. A red arrow points to the "Login" button. At the bottom of the window, there is a text box containing the word "Welcome".</p>	<p>Press Login</p>
 <p>The screenshot shows a window titled "Aanmelden bij Windows Azure PowerShell". It features the "Microsoft Azure" logo at the top. Below the logo, there is a prompt in Dutch: "Typ het e-mailadres van het account waarmee u zich wilt aanmelden." (Type the email address of the account with which you want to log in). A text input field contains the email address "iemand@example.com". Below the input field is a blue button labeled "Doorgaan" (Continue). At the bottom of the window, there is a small icon and text: "U kunt uw werk- of schoolaccount gebruiken overal waar u dit symbool ziet. © 2015 Microsoft. Gebruiksrechtsovereenkomst Privacy en cookies".</p>	<p>Type the username/email address of your azure account</p>

<div data-bbox="203 184 993 1052"> <p>Aanmelden bij Windows Azure PowerShell</p> <h2>Microsoft Azure</h2> <p>Het lijkt erop dat charl.pels@capgemini.com met meerdere accounts wordt gebruikt. Welk account wilt u gebruiken?</p> <div>  <div> <p>Werk- of schoolaccount</p> <p>Toegewezen door uw werk of school</p> </div> </div> <div>  <div> <p>Microsoft-account</p> <p>Persoonlijk account</p> </div> </div> <p>←</p> <p>Annuleren</p> <p>U kunt uw werk- of schoolaccount gebruiken overal waar u dit symbool ziet. © 2015 Microsoft Gebruiksrechtovereenkomst Privacy en cookies</p> </div>	<p>Select Microsoft-Account</p>
<div data-bbox="203 1060 961 1890"> <p>Aanmelden bij je Microsoft-account</p> <h2>Microsoft-account</h2> <h1>Aanmelden</h1> <p>Microsoft-account <a href="#">Wat is dit?</a></p> <p>charl.pels@capgemini.com</p> <p>Wachtwoord</p> <p>••••••••••</p> <p><input checked="" type="checkbox"/> Aangemeld blijven</p> <p><b>Aanmelden</b></p> <p><a href="#">Heb je geen toegang tot het account?</a></p> <p>Geen Microsoft-account? <a href="#">Registreer je nu</a></p> <p><a href="#">Privacy en cookies</a>   <a href="#">Gebruiksrechtovereenkomst</a>   <a href="#">Pc-versie</a></p> <p>© 2015 Microsoft</p> </div>	<p>Type your password</p>

\$subscription = \$subscription | Out-GridView -OutputMode Single

Filter

Add criteria

SubscriptionId	SubscriptionName	Environment	SupportedModes	DefaultAccount	Accounts
	Visual Studio Ultimate met MSDN new	AzureCloud	AzureServiceManagement,AzureResourceManager		s@ce
	Visual Studio Ultimate met MSDN	AzureCloud	AzureServiceManagement,AzureResourceManager		s@ce
	Betalen naar gebruik	AzureCloud	AzureServiceManagement,AzureResourceManager		

OKCancel

Select your subscription to deploy your server is

Your Azure Cloud Desktop

LoginRefresh StatusDesktopTasksConfigurationHelp

Selected Subscription ID c1486c2d-78a0-425t

Selected Subscription: Betalen naar gebruik

Your RDP server:

Your Service Name:

Your Server IP:

Welcome

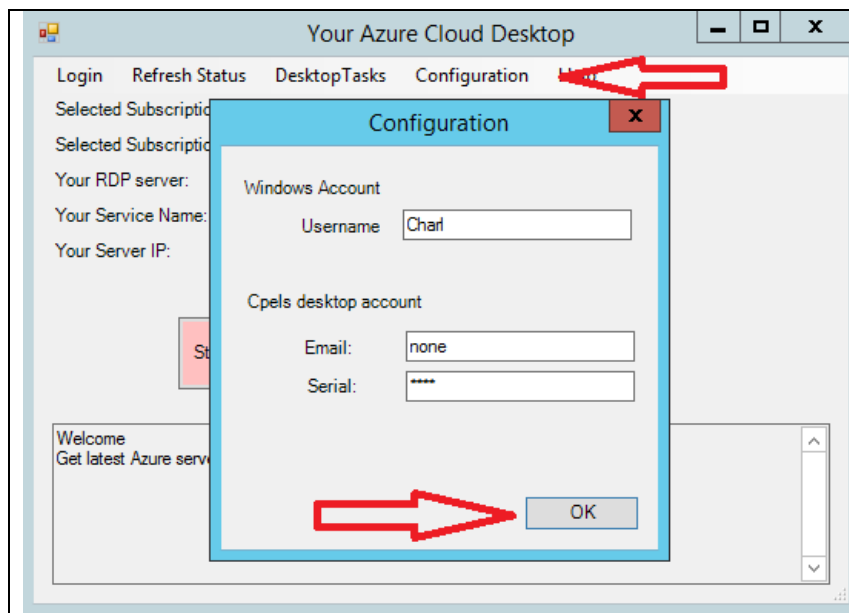
Get latest Azure server information

Get latest Azure server information

Now you will see your selected subscription information and are you ready for the next step.

Create your desktop using Your Cloud Desktop Tool with Azure





### Configuration

Go to Configuration and type a username.

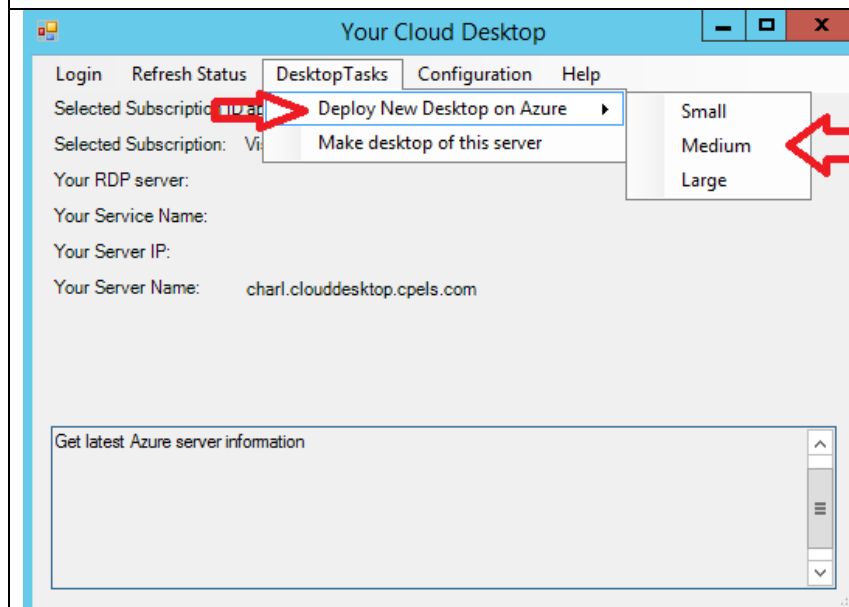
This account information will be used to configure your server.

You will need the username and password for logging in to your new cloud desktop.

The password will be asked later.

Here you can also type your Cpels desktop account. If you don't have a cpels desktop account please leave default values.

Press Ok

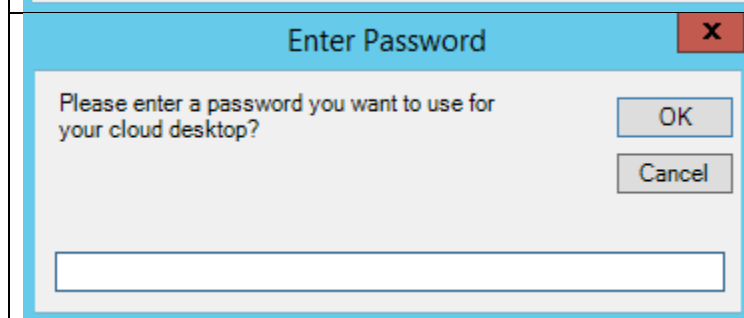


Now it is time to create your new desktop.

Go to Desktop Tasks -> Deploy new Desktop on Azure and choose your model.

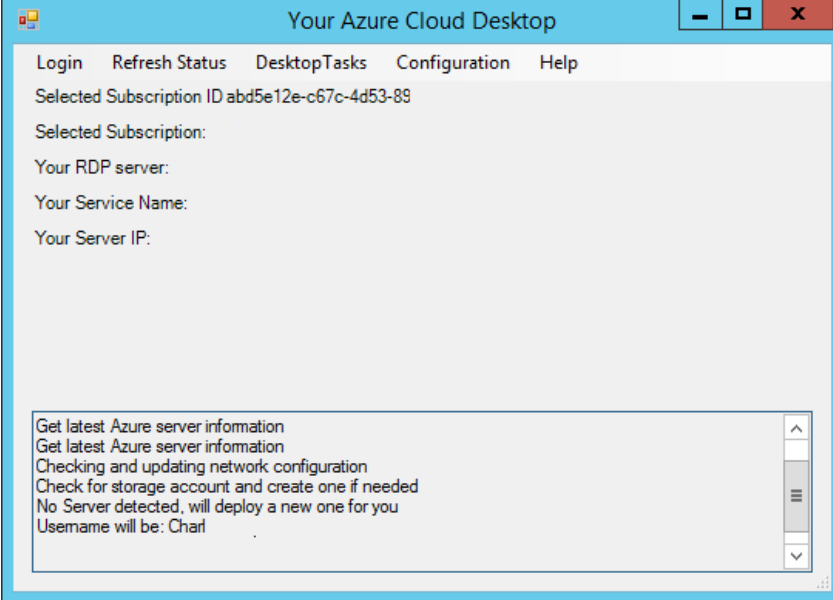
Small (1 core, 1.75 GB Memory)  
Medium (2 cores, 3.5 GB Memory)  
Large (4 cores, 7 GB Memory)

[https://msdn.microsoft.com/en-us/library/dn168976\(v=nav.70\).aspx](https://msdn.microsoft.com/en-us/library/dn168976(v=nav.70).aspx)

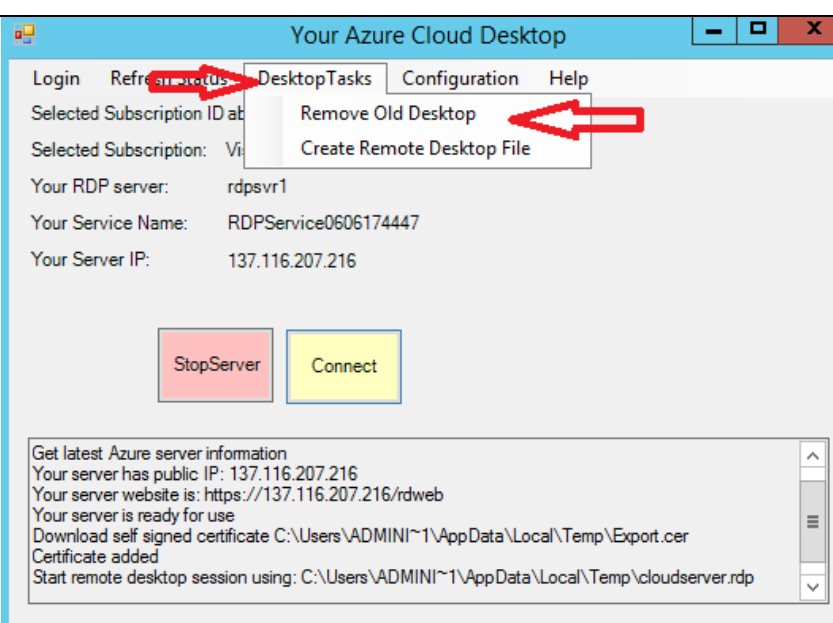


### password

Type the password you want to use to login to your server.

	<p>From this point the tool will create all components needed for your desktop.</p> <p>Like networking, storage and of Corse your virtual desktop.</p> <p>If you have a cpels desktop account you also get a public available DNS name and certificate.</p> <p>Al steps can take up to 30 min depending on desktop type (small, medium, large) you selected and azure itself.</p>
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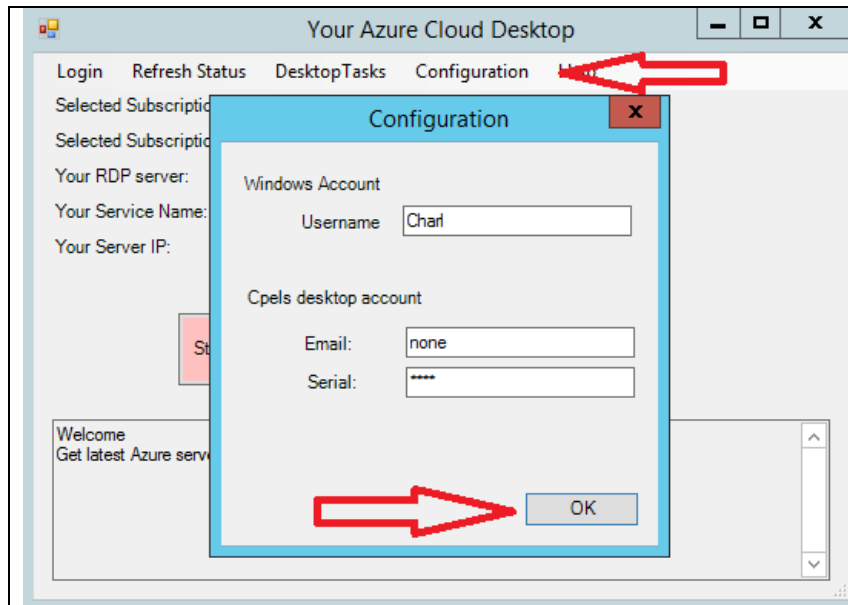
## Removing your desktop

	<p>Just go to desktop tasks →</p> <p>Remove old desktop.</p> <p>Now your cloud desktop including all the data will be deleted.</p>
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## Using the tool with a Windows 2012 R2 server

In this setup you can convert any Windows 2012 R2 server to a Cloud Desktop that you can access from everywhere.

This solution will work on any virtual solution Hyper-V, VMware, VirtualBox or cloud provider, all you need is a standard fresh/new Windows 2012R2 server.



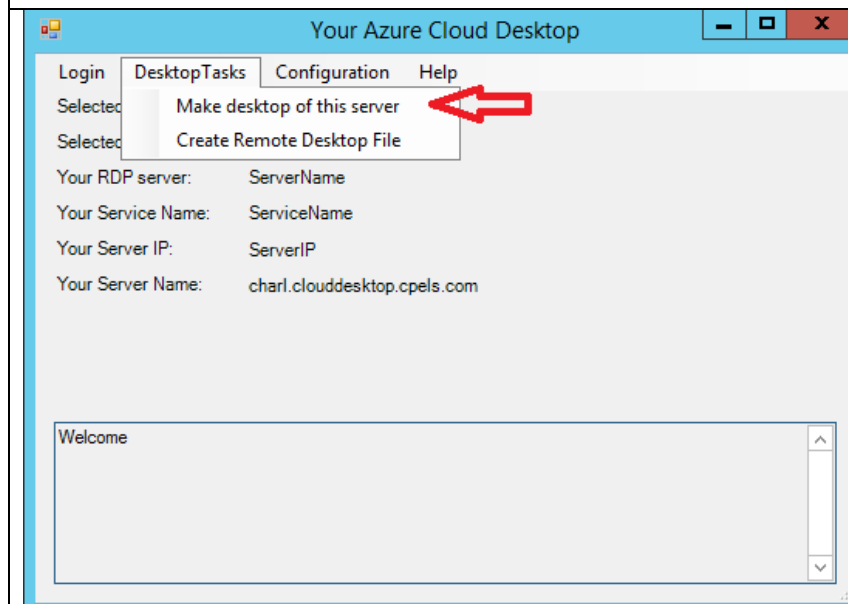
### Configuration

Go to Configuration and type a username.

In this setup you can type anything, you already have access to your server so this will be ignored.

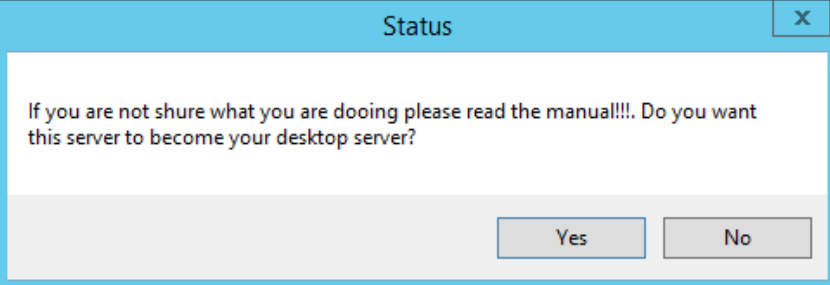
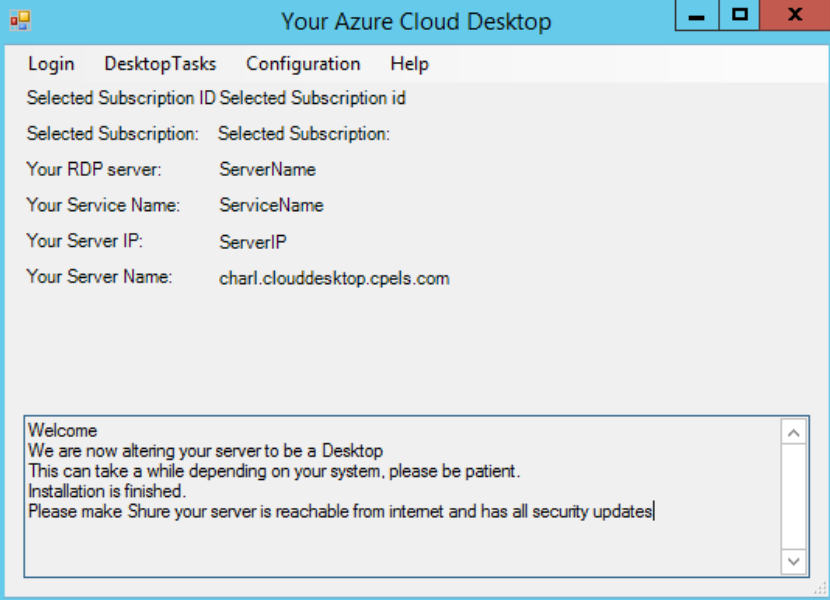
Here you can also type your Cpels desktop account. If you don't have a cpels desktop account please leave default values.

Press Ok



Now it is time to create your new desktop.

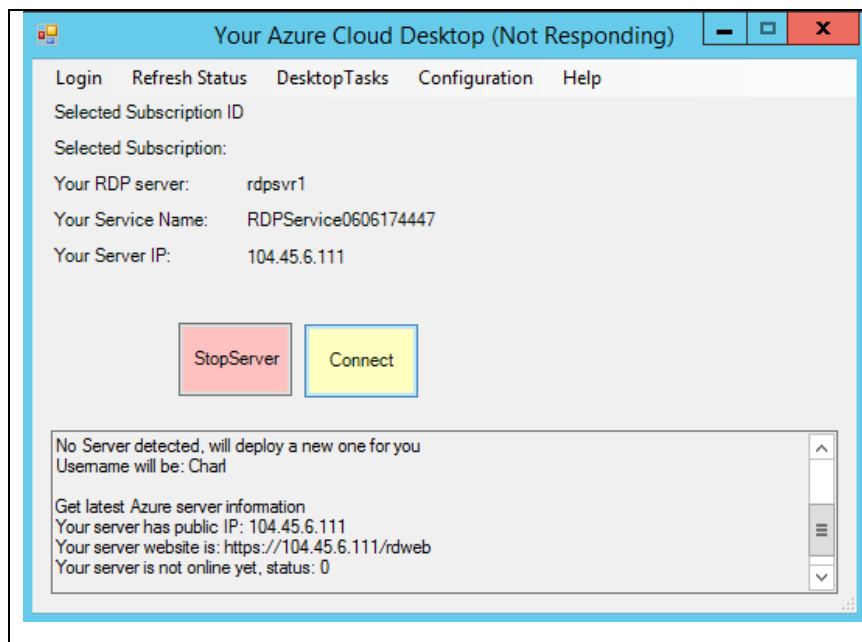
Go to Desktop Tasks -> Make desktop of this server.

	<p>You will get a warning. The configuration of server this tool will run on will be altered (installing Windows components etc).</p>
	<p>From this point the tool will install and configure all components needed for your desktop.</p> <p>If you have a cpels desktop account you also get a public available DNS name and certificate.</p> <p>Al steps can some time depending on hardware used.</p>
	<p>Now you need to configure your router, firewall, gateway to allow traffic from internet to your server. When done please go to <a href="#">connecting to your desktop</a></p>

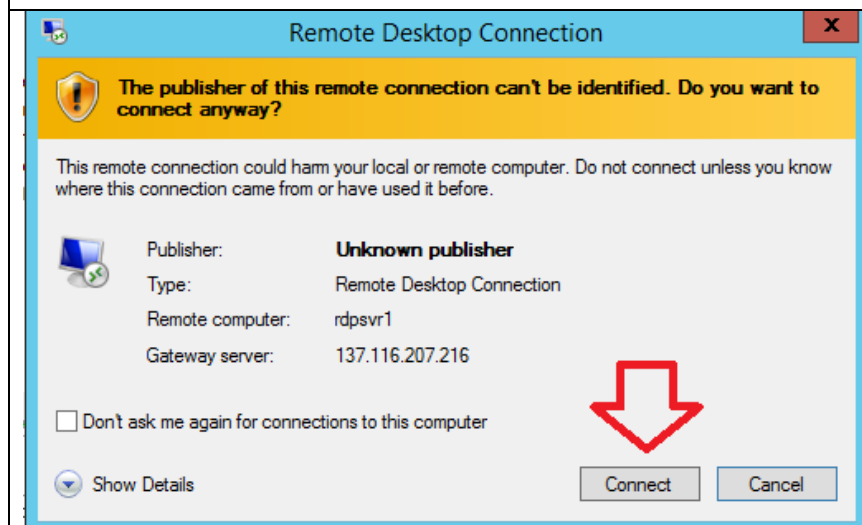
## Connecting to your desktop

When you have no cpels account

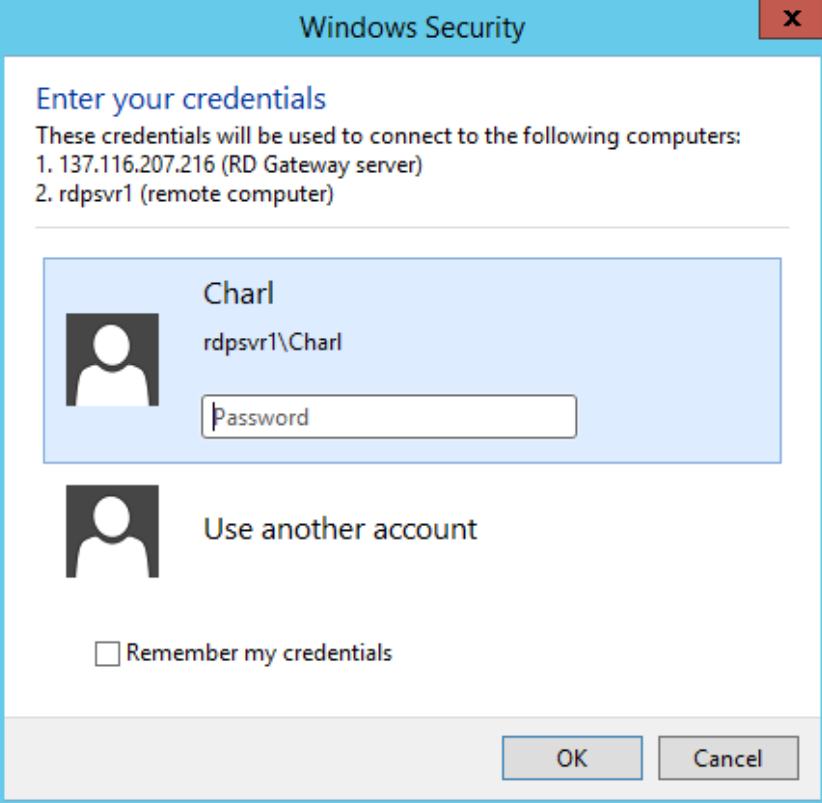
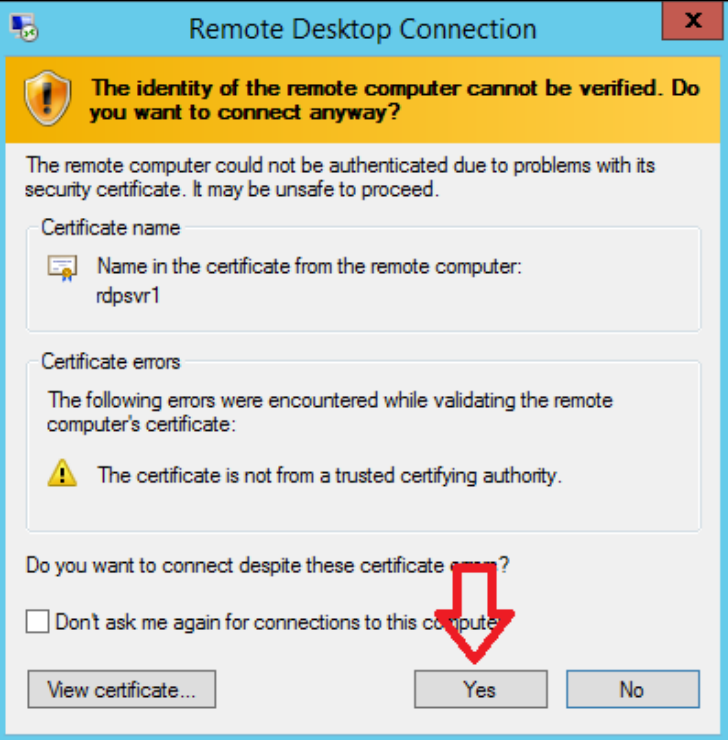
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To connect button will only be seen when your server is turned on.  
When you press Connect it will check to see the server is online and ready for use.



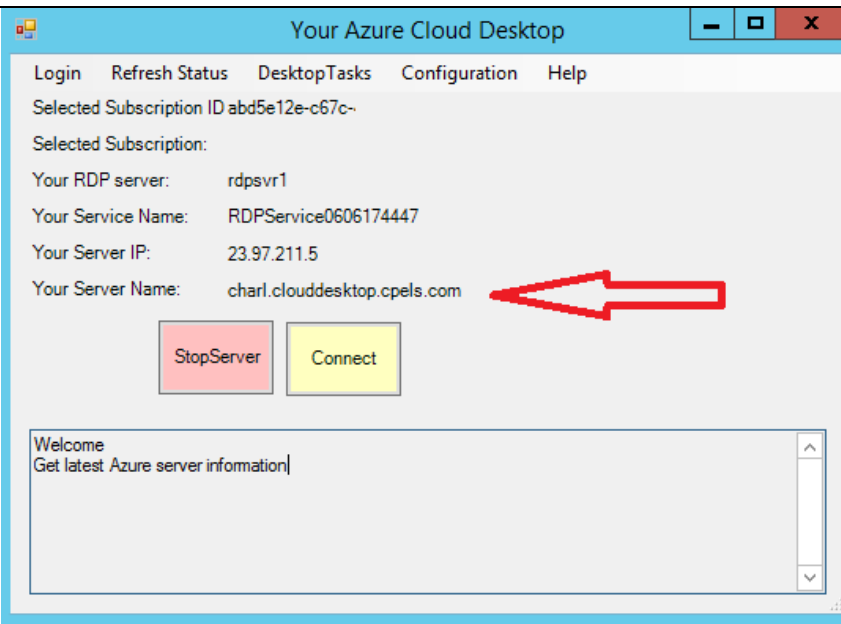
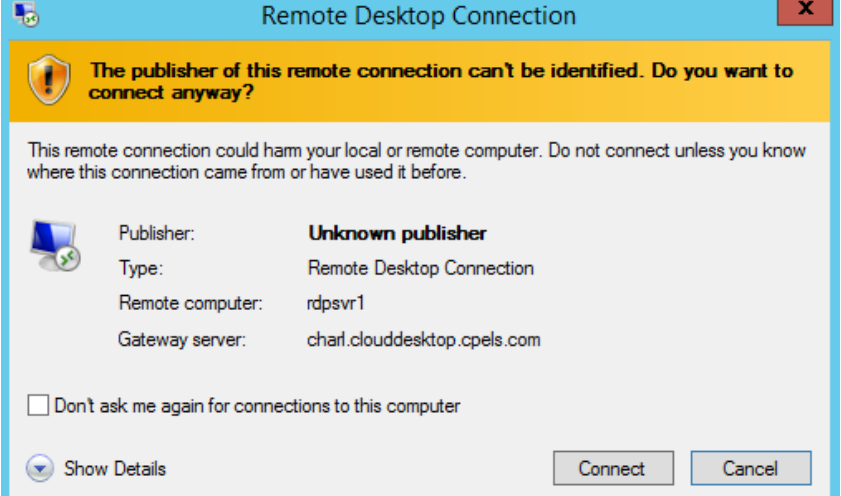
Press Connect

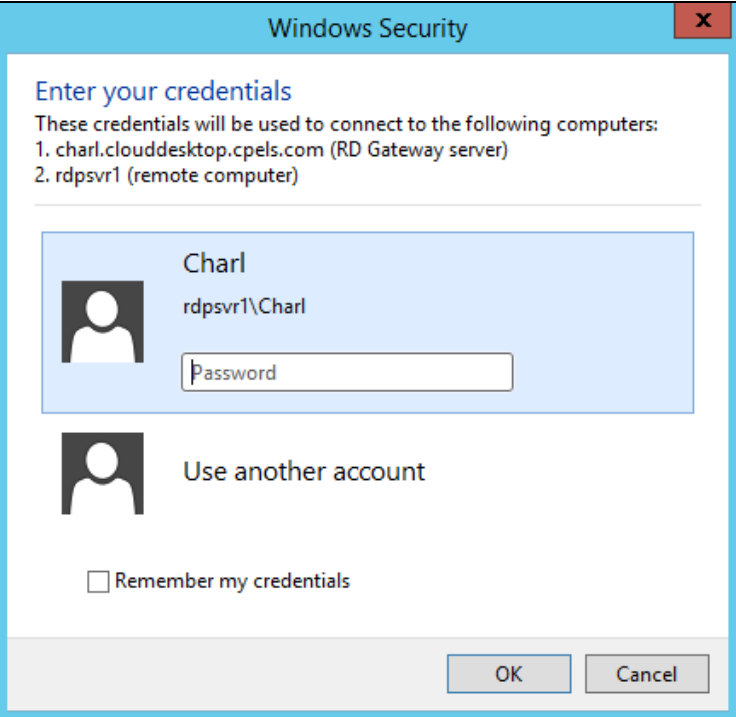
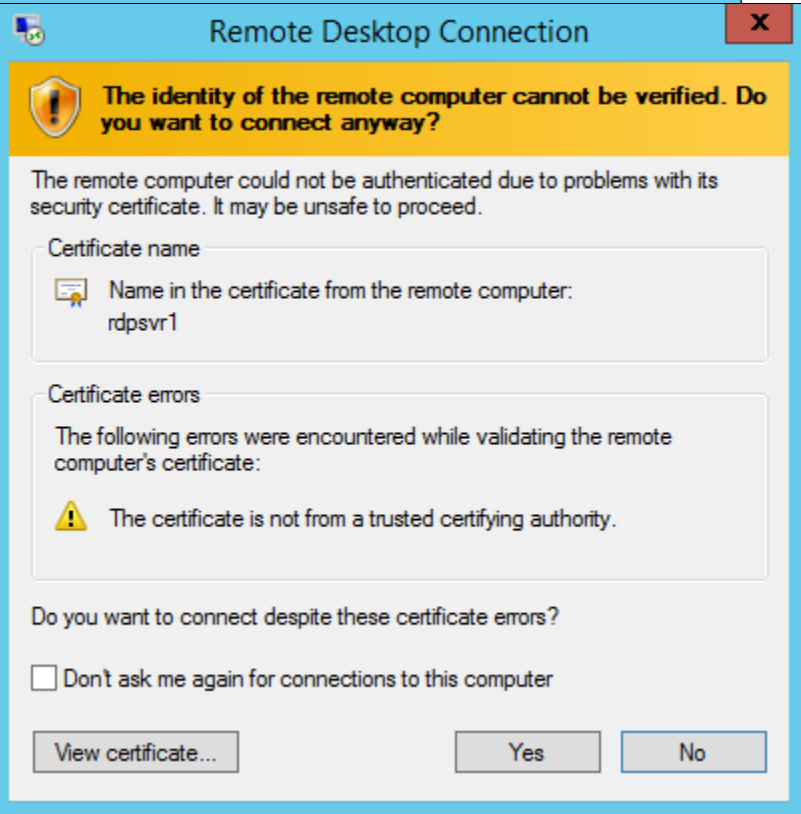
	<p>Now you can login to your server.</p> <p>If all is correct your username in this example rdpsvr1\Charl is already filled in.</p> <p>The password is the one you typed in during configuration of your application.</p> <p>As mentioned here</p>
	<p>Press Yes</p>
	<p>You will now see your desktop, have fun.</p>

When you have a cpels account

### *Directly connect to your Cloud Desktop*

Please don't press connect directly after your started your server, an existing server will take about 10 min to start a new server can take up to 30 min or more depending on model your have chosen (small/medium/large)

 <p>The screenshot shows the 'Your Azure Cloud Desktop' application window. It has a menu bar with 'Login', 'Refresh Status', 'DesktopTasks', 'Configuration', and 'Help'. Below the menu, it displays 'Selected Subscription ID abd5e12e-c67c~'. Under 'Selected Subscription:', it lists 'Your RDP server: rdpsvr1', 'Your Service Name: RDPService0606174447', 'Your Server IP: 23.97.211.5', and 'Your Server Name: charl.clouddesktop.cpels.com'. At the bottom, there are 'StopServer' and 'Connect' buttons. A red arrow points to the 'Connect' button.</p>	<p>The connect button will only be seen when your server is turned on.</p> <p>When you press Connect you will be able to access your computer.</p> <p>The difference is that you now use an official DNS name and certificate.</p> <p>Next to the arrow you will see the name your server will have.</p>
 <p>The screenshot shows the 'Remote Desktop Connection' dialog box. It has a yellow warning banner that says 'The publisher of this remote connection can't be identified. Do you want to connect anyway?'. Below the banner, it says 'This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.' The fields are: 'Publisher: Unknown publisher', 'Type: Remote Desktop Connection', 'Remote computer: rdpsvr1', and 'Gateway server: charl.clouddesktop.cpels.com'. There is a checkbox for 'Don't ask me again for connections to this computer' and a 'Show Details' link. At the bottom are 'Connect' and 'Cancel' buttons.</p>	<p>Press Connect</p>

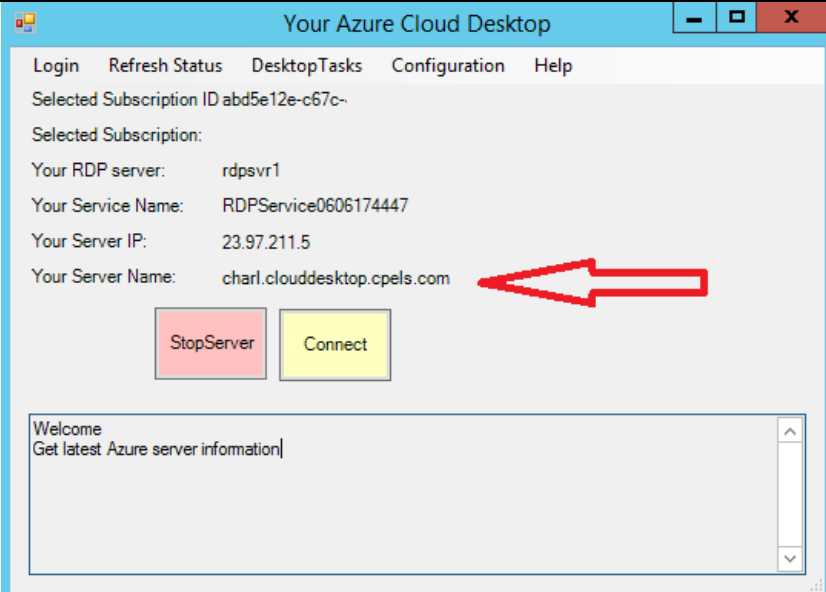
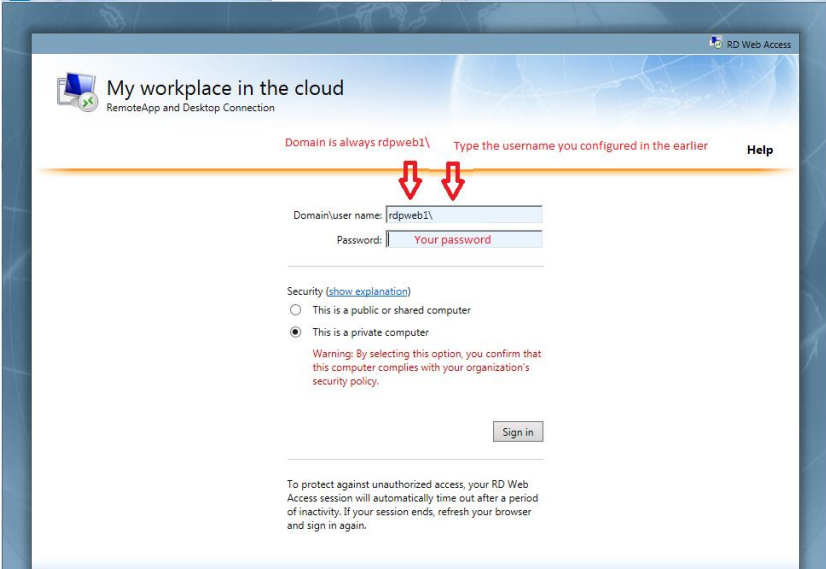
	<p>Type your username and password.</p>
	<p>Press Yes</p>

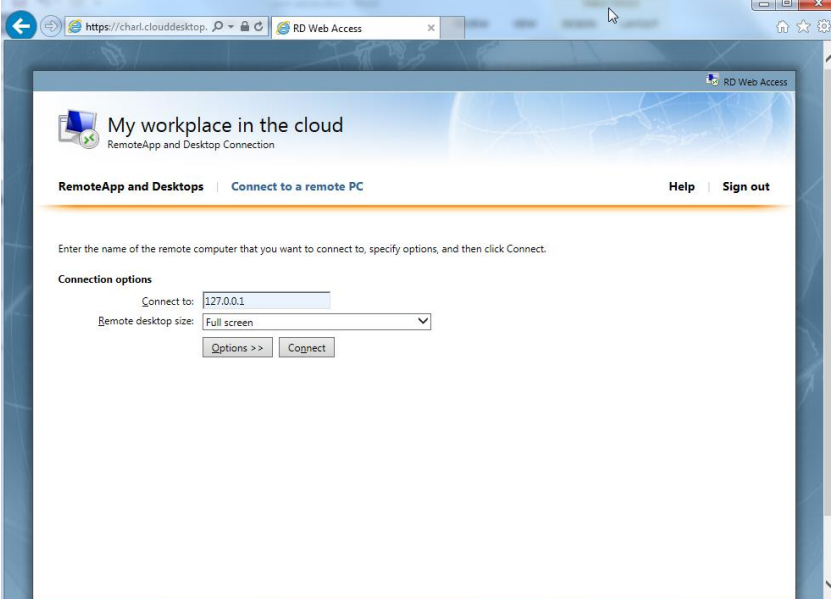
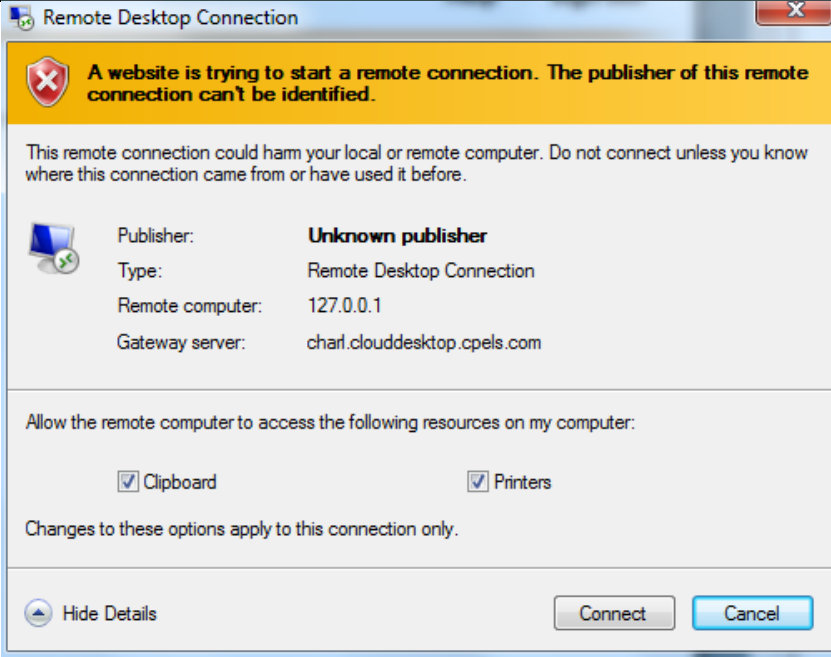
*Directly connect later to your Cloud Desktop from every Windows PC*

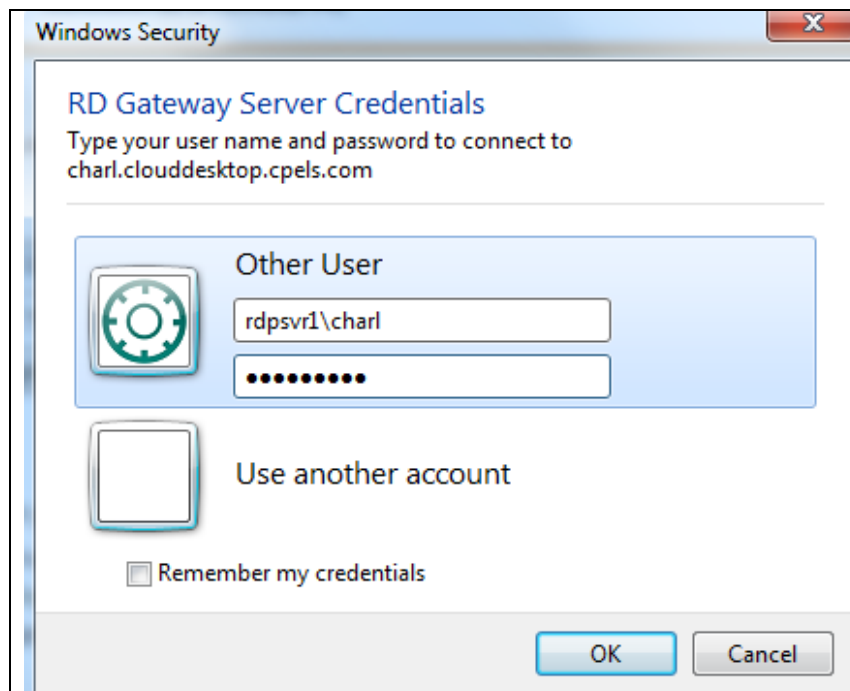


- Using your personal web page
- Using an RDP File.
- Android or Apple Systems

### Using your personal web page

	<p>First get your DNS name from the Azure Cloud Desktop application (in the sample charl.cloudddesktop.cpels.com)</p> <p>You need this name for the next step.</p>
	<p>Open internet explorer (other browsers will NOT work) and go to <a href="http://&lt;YourDNSName&gt;/rdweb">http://&lt;YourDNSName&gt;/rdweb</a></p> <p>Where yourDnsName would be the one you find in the previous step, in the sample it would be <a href="http://charl.cloudddesktop.cpels.com/rdweb">http://charl.cloudddesktop.cpels.com/rdweb</a></p> <p>The domain\username is rdpweb1\&lt;username&gt; The username you have configured <a href="#">here</a></p> <p>Then type your password, you have given the password during deployment of your desktop <a href="#">here</a></p>

	<p>Now press Sign in</p> <p>Click on Connect to a remote PC.</p> <p>In connect to type: 127.0.0.1</p> <p>Press connect.</p> <p>Tip: you basically can connect to every remote desktop in the world, just type the name or IP in the connect to field of the server you want to connect.</p>
	<p>Press Connect</p>



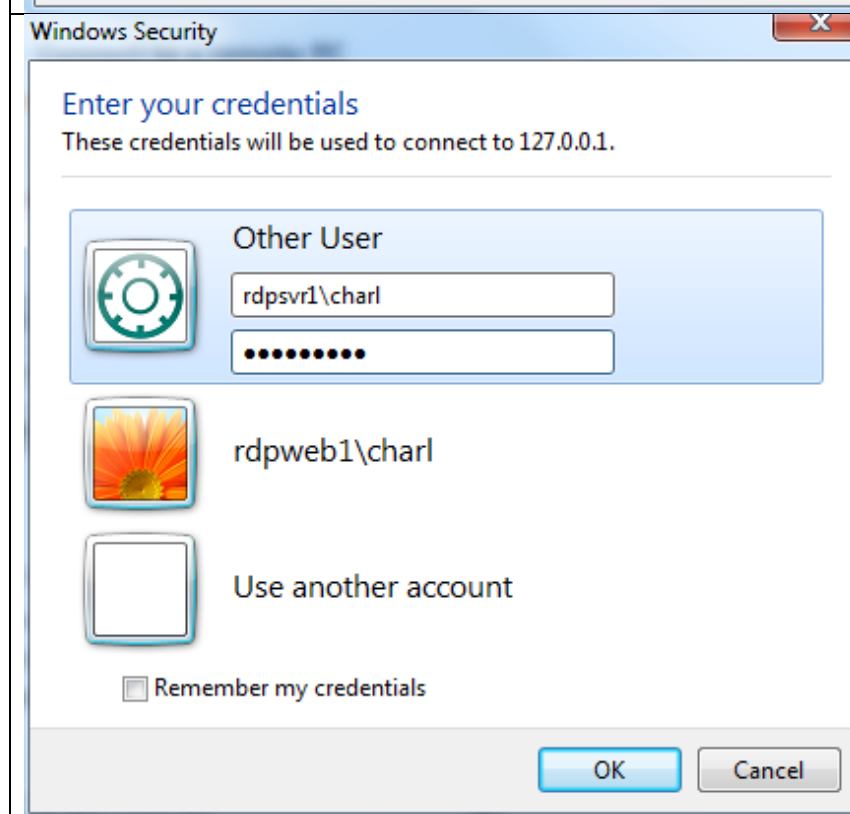
Now we login to the gateway

The username is  
rdpsvr1\<username>  
The username you have  
configured [here](#)

The type your password, you  
have given the password  
during deployment of your  
desktop [here](#)

Basically the same  
credentials you used for login  
to the website.

Now press Ok



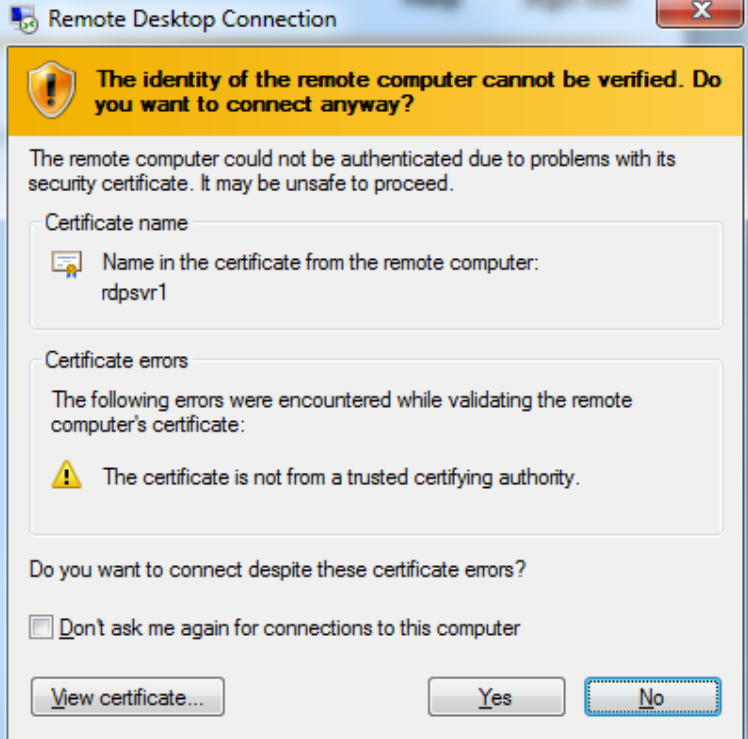
The second login screen is for  
the actual server.

The username is  
rdpsvr1\<username>  
The username you have  
configured [here](#)

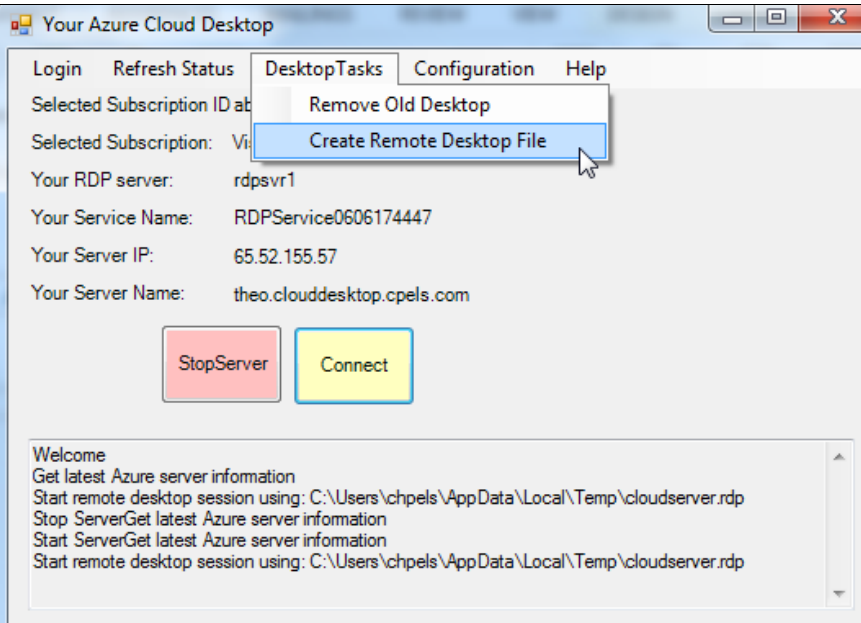
The type your password, you  
have given the password  
during deployment of your  
desktop [here](#)

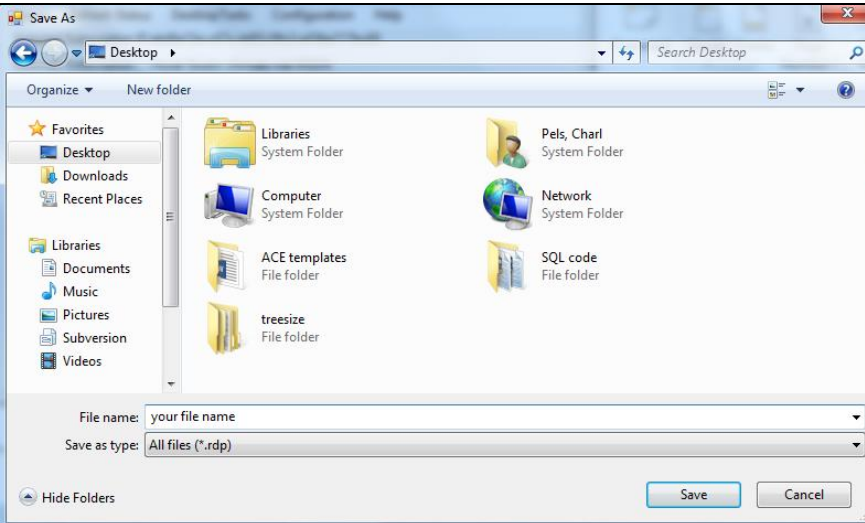

Basically the same  
credentials you used for login  
to the website.

Now press Ok

	<p>Press Yes</p>
	<p>You are now connected to your desktop.</p>

Using an RDP File.

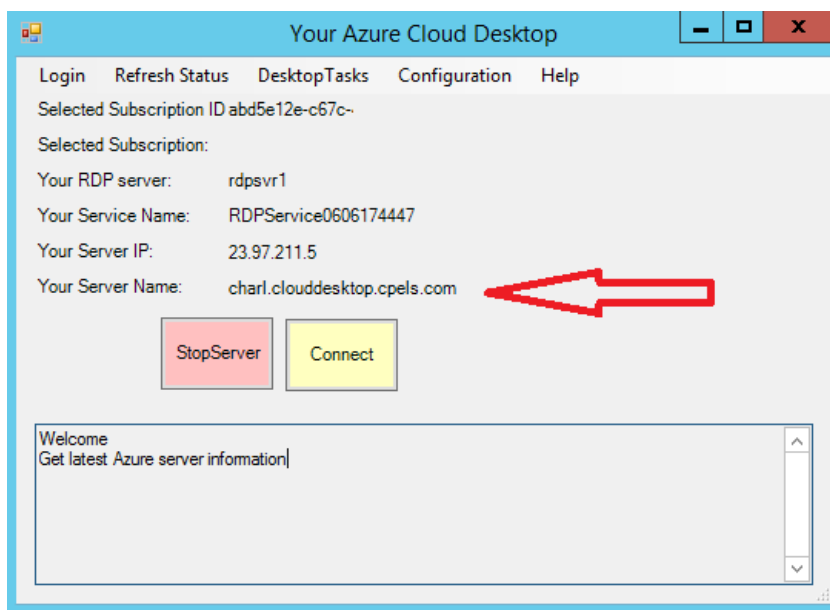
	<p>Go to → Desktop Tasks → Select Create Remote Desktop File.</p>
--	---

	<p>Select where you want to store your rdp file and press save.</p>
	<p>You can click on the file to connect to your server. File can be opened from any modern windows desktop or server.</p>

### Android or Apple Systems

You can access your server from everywhere for this you need to fill in the RDP gateway in your application.

The url of this server can be found in your Azure cloud desktop tool



## Appendix: Used tools and Services

Powershell part (your cloud desktop tool)

- Powershell Studio 2015 trail
- Powergui
- Azure Blob store for downloading support scripts and xml files

VB.net (Used for web service interface to support the cpels features)

- Visual Studio 2015 beta
- Azure SQL (cpels account and subdomain storage)
- Azure Blobs (File Storage)
- Azure web services (for API and site hosting)
- SendGrid (for email handling)
- Visual Studio online (Version Control and Build testing)
- Route53 for DNS zone hosting (Amazon Service)