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For Cloud Desktop version 1.1

Cloud Desktop tool

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# Install Application and support tools

## Install azure PowerShell support pack

|  |  |
| --- | --- |
|  | <http://go.microsoft.com/fwlink/p/?linkid=320376&clcid=0x413> |
|  | You can see the following popup |
|  | Follow the wizard and press install. |
|  | Press I Accept |
|  | All needed components will be installed |
|  |  |

<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)

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

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

|  |  |
| --- | --- |
|  | Need to make this part |
|  |  |
|  |  |

### Login to Azure

|  |  |
| --- | --- |
|  |  |
|  | Press Login |
|  | Type the username/email address of your azure account |
|  | Select Microsoft-Account |
|  | Type your password |
|  | Select your subscription to deploy your server is |
|  | 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> |
|  | password Type the password you want to use to login to your server. |
|  | From this point the tool will create all components needed for your desktop.  Like networking, storage and of Corse your virtual desktop.  If you have a cpels desktop account you also get a public available DNS name and certificate.  Al steps can take up to 30 min depending on desktop type (small, medium, large) you selected and azure itself. |
|  |  |

### Removing your desktop

|  |  |
| --- | --- |
|  |  |
|  | Just go to desktop tasks 🡪 Remove old desktop.  Now your cloud desktop including all the data will be deleted. |
|  |  |
|  |  |

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

## Connecting to your desktop

### When you have no cpels account

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

### When you have a cpels account

#### Directly connect to your Cloud Deskop

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)

|  |  |
| --- | --- |
|  |  |
|  | The connect button will only be seen when your server is turned on.  When you press Connect you will be able to access your computer.  The difference is that you now use an official DNS name and certificate.  Next to the arrow you will see the name your server will have. |
|  | Press Connect |
|  | Type your username and password. |
|  | Press Yes |
|  |  |

#### Directly connect later to your Cloud Deskop from every Windows PC

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

##### Using your personal web page

|  |  |
| --- | --- |
|  |  |
|  | First get your DNS name from the Azure Cloud Desktop application (in the sample charl.cloudddeskop.cpels.com)  You need this name for the next step. |
|  | Open internet explorer (other browsers will NOT work) and go to http://<YourDNSname>/rdweb  Where yourDnsName would be the one you find in the previous step, in the sample it would be http://charl.clouddesktop.cpels.com/rdweb  The domain\username is rdpweb1\<username>  The username you have configured [here](#_Configuration)  Then type your password, you have given the password during deployment of your desktop [here](#_password)  Now press Sign in |
|  | Click on Connect to a remote PC.  In connect to type: 127.0.0.1  Press connect.  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. |
|  | Press Connect |
|  | Now we login to the gateway  The username is rdpsvr1\<username>  The username you have configured [here](#_Configuration)  The type your password, you have given the password during deployment of your desktop [here](#_password)  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](#_Configuration)  The type your password, you have given the password during deployment of your desktop [here](#_password)  Basically the same credentials you used for login to the website.  Now press Ok |
|  | Press Yes |
|  | You are now connected to your desktop. |

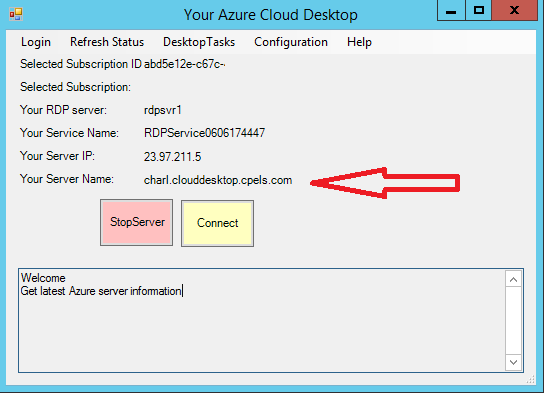
##### Using an RDP File.

|  |  |
| --- | --- |
|  |  |
|  | Go to 🡪 Desktop Tasks 🡪 Select Create Remote Desktop File. |
|  | Select where you want to store your rdp file and press save. |
|  | You can click on the file to connect to your server.  File can be opened from any modern windows desktop or server. |

##### Android or Apple Systems

You can access your server from everywhere for this your 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)