Remotelabs – How it works

You will be connecting to your lab environment via Remote Desktop. Remotelabs is one half of our solution that allows you to connect from anywhere (the other half being LiveClass), rather than needing to be physically present for courses.

Contents

How is this going to work?

Since May 2020 we have 2 ways of connecting to the lab environment:

1. RDP via RDGS
2. RDP via HTML5

Ahead of the class we'll send you an email with a Remote Desktop Connection (.rdp) file (using which you'll then be able to connect to your environment) along with the required login credentials.

Option 1: RDP via RDGS

What do you need?

To open a remote desktop connection, you need a Remote Desktop client. One such client is included in Windows: it is called "Remote Desktop Connection", which is another name for mstsc.exe. We strongly recommend that you connect from a Windows machine (7, 8, 8.1 or 10), however there are also RDP clients for OSX, iOS, Android, and Linux/Unix if you prefer (however, we may not be able to help you, should you run into technical issues).

To achieve the best possible performance, we strongly recommend that you use a wired connection instead of Wireless when possible. An internet connection of 100Mb/s or better is also highly recommended, especially if you will be sharing the connection with family or co-workers.

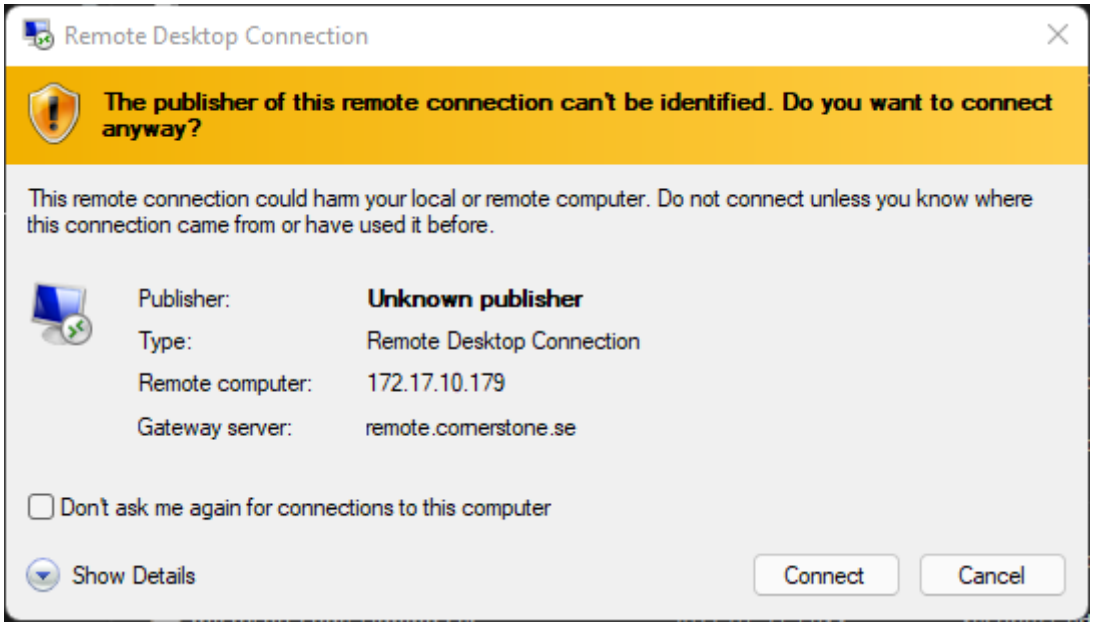
To verify that you are able to connect, you can run the connection test outlined on the next page ("Connect in 4 simple steps"). This will verify that your client machine is properly configured, and that there are no firewalls or other complications blocking you.

Technical details (for your IT staff)

To facilitate connections to the lab environments we use a Remote Desktop Gateway Server (RDGS), located at remote.cornerstone.se (IP: 94.254.117.67). This server uses a certificate from Let's Encrypt (R3, Let's Encrypt, US), root (ISRG Root X1) and intermediate (Let's Encrypt R3) certificates can be downloaded from https://letsencrypt.org/certificates/ if necessary.

Clients connect to the Remote Desktop Gateway server on port 443 (TCP) so if you have firewalls blocking outgoing traffic you may need to whitelist outgoing connections to the above address on these ports.

The .rdp file is not signed, so the user may receive a warning like this when executing the file:



This is expected behaviour, but may stop the user from connecting if the "**Allow .rdp files from valid publishers and user's default .rdp settings**" or "**Allow .rdp files from unknown publishers**" Group Policy is disabled.

For users of Windows XP or earlier

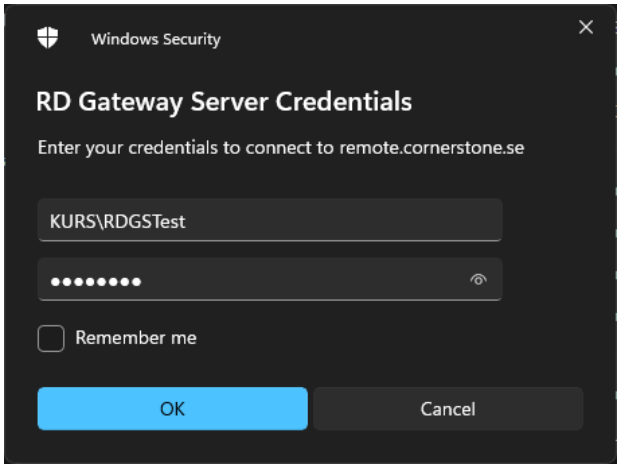
Since Windows has ended all support for Windows XP as of April 2014 we would like to encourage you use a more modern OS when connecting to the lab environments.

You may be able to connect from a Windows XP-based client, however if you run into technical issues we may well be unable to help you.

Test RDP via RDGS

Step 1: download the RDP file

Using the following link you can download an RDP file with connection details to our test environment: http://remotelabs.cornerstone.se/f/RDGSTest.rdp

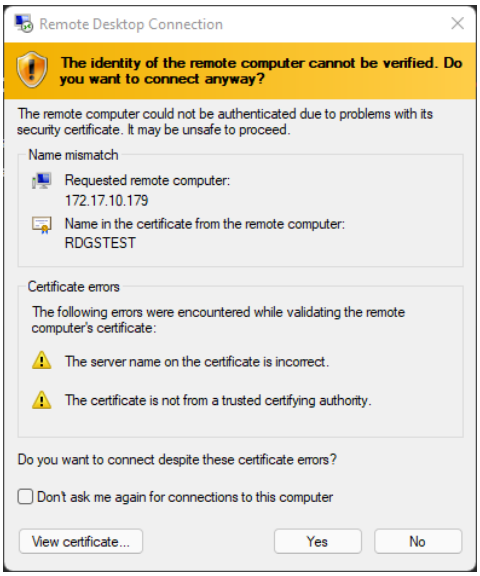


Step 2

Step 2: Log in to our Remote Desktop Gateway Server

Username: `KURS\RDGSTEST`

Password: `password`



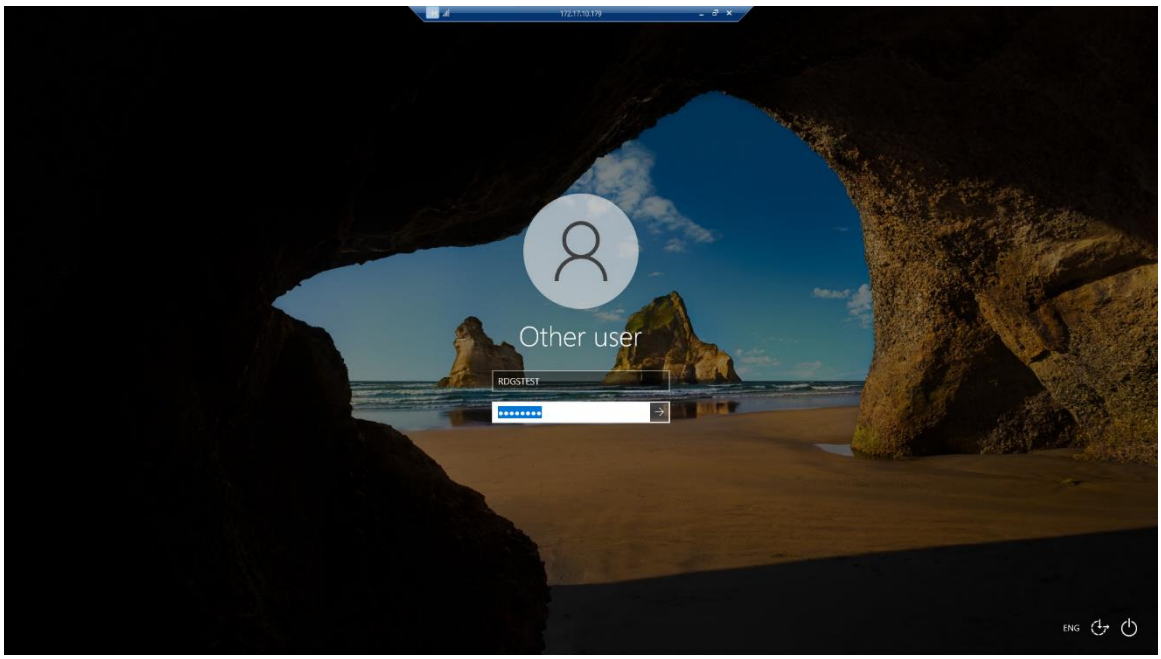
Step 3

Step 3: Accept the lab environment's certificate

Lastly you need to accept the environments self-signed certificate. To do this, just click "Yes" when prompted.

Step 4: Log in to the remote environment

The password is: **password**



Step 4

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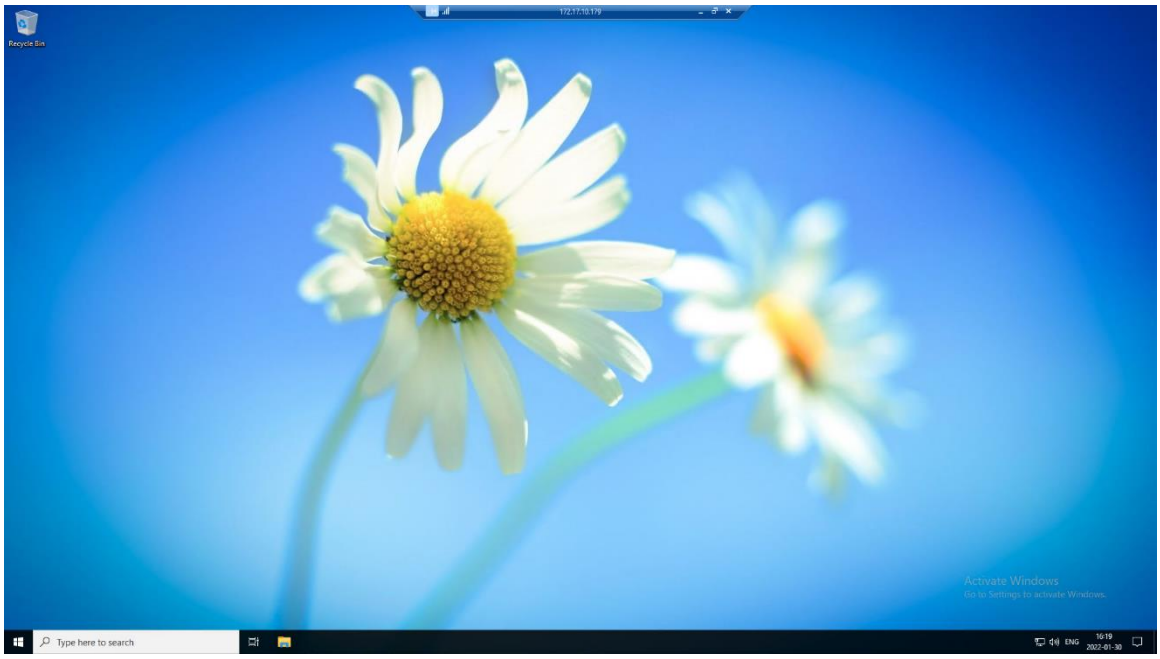
211 18 Malmö
040-33 08 50

www.cornerstone.se
info@cornerstone.se

Steg 5: Welcome, you should now be logged into the test environment

This environment is not related to any course you'll be attending: it is simply used for this connection test.



Desktop on RDGSTEST, our test machine.

Take note!
Remember to run the above test from the computer and network that you'll use when attending the course, as different networks may be configured. Many companies have an internal network that is more tightly controlled and one for guests that is more open.

Option 2: RDP via HTML5

As of May 2020, we offer a web-based HTML5 client that you can use to connect to your lab-environment.

What do you need?

An HTML5-compatible browser. More specifically this requires support for WebSocket and Canvas elements.

Most modern browser have these capabilities.

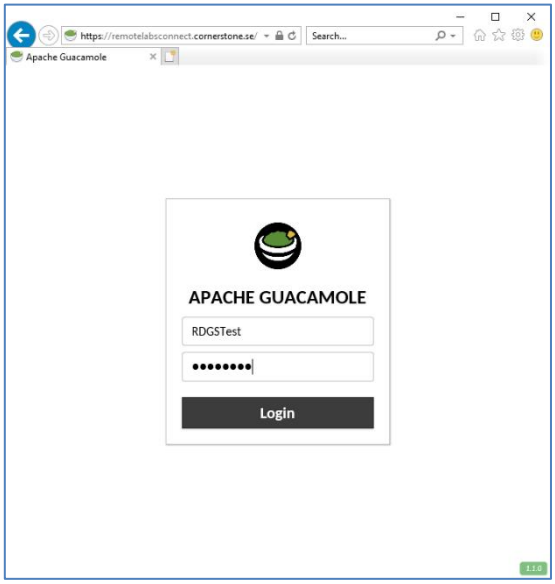
Technical details (for your IT staff)

In order to connect with the environment, outbound connections to port 443 on "remotelabsconnect.cornerstone.se" (94.254.117.82) must be allowed.

The SSL certificate for this site is issued by Let's Encrypt.

Test RDP via HTML5

To test the connectivity to our HTML5 client site, open the browser or browsers that you intend to use when connecting and navigate to https://remotelabsconnect.cornerstone.se.



Step 1

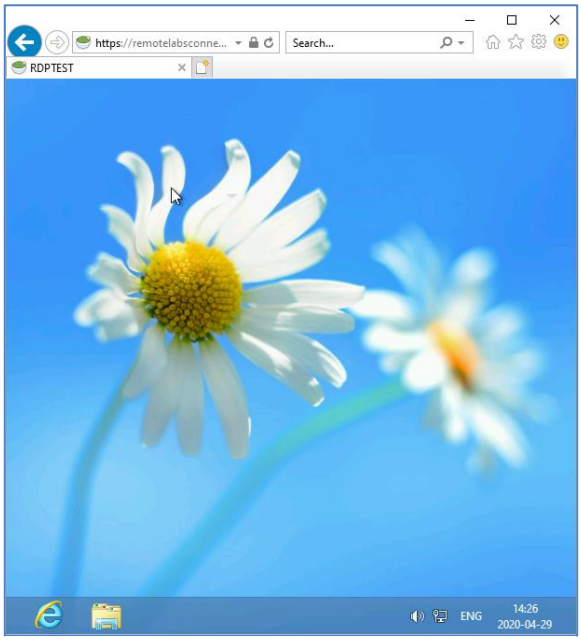
Step 1: log in.

Enter the following credentials:

Username: **RDGSTest**
Password: **password**

Step 2: Verify that you are connected

You should now be logged on to our test machine ("RDPTest", running Windows 8) and can interact with the desktop as usual.



Step 2

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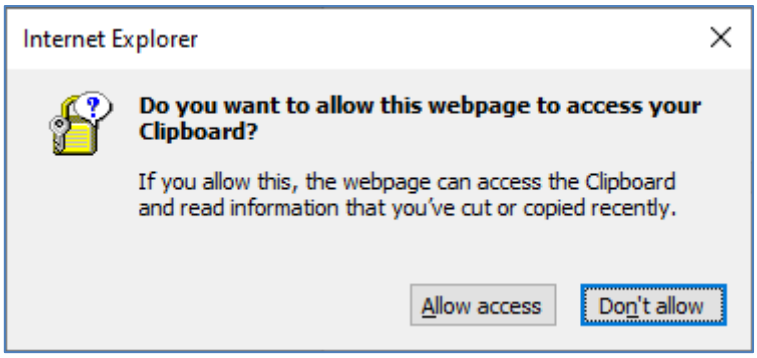
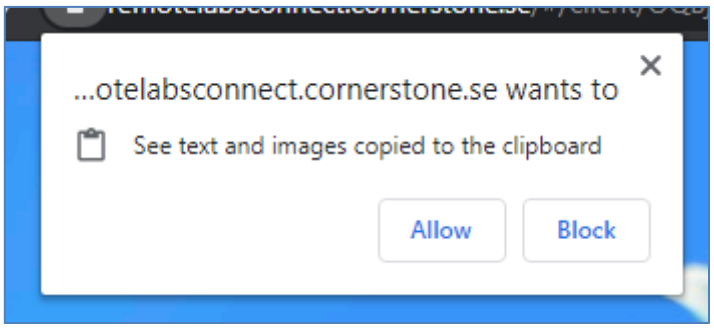
On loging in, you may be prompted to give the website access to you Clipboard.

We strongly recommend that you allow this, as it will allow you top copy/paste information to and from the lab environment smoothly.

This prompt may look different depending on what browser you use, for example:





Questions

If you have any questions or are unable to connect, please refer to your sales-representative. You can also email support@cornerstone.se.