Network Connection

How to check connectivity

There are different small icons on the taskbar in the lower right most corner of the Windows desktop. The following icon shows that you are connected to the local area network, authenticated on ad.cerge-ei.cz Active Directory and connected further to Internet.
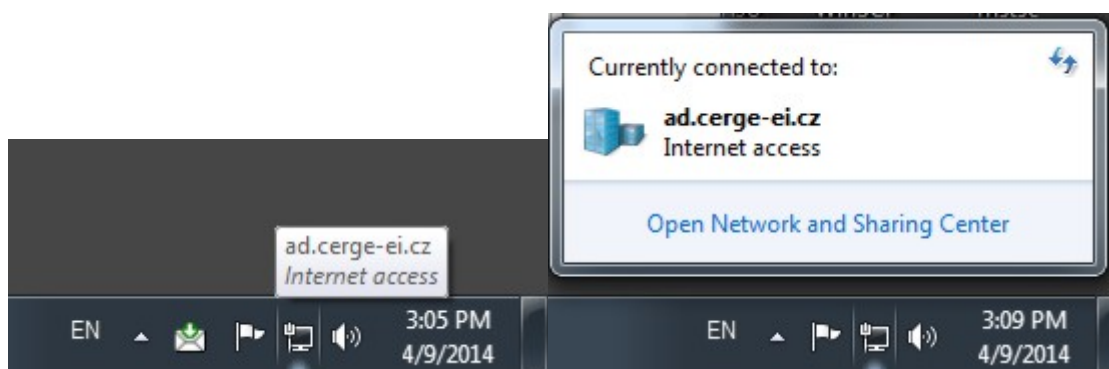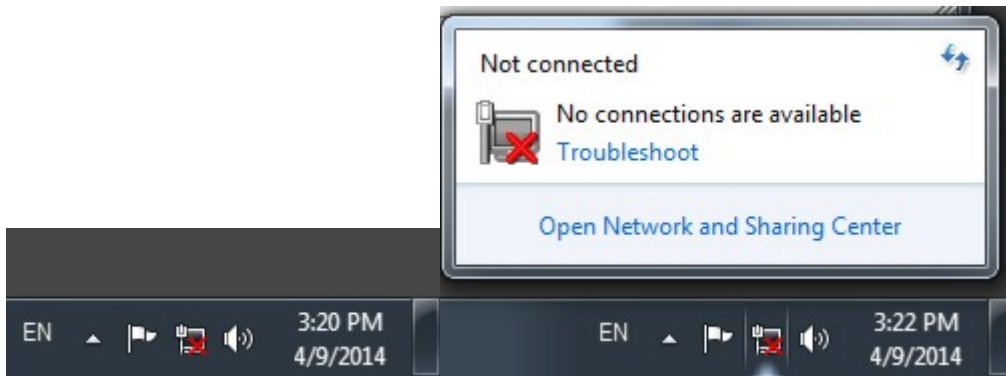

If you click on the icon and further on **Open Network and Sharing Center**, you'll get the following window:
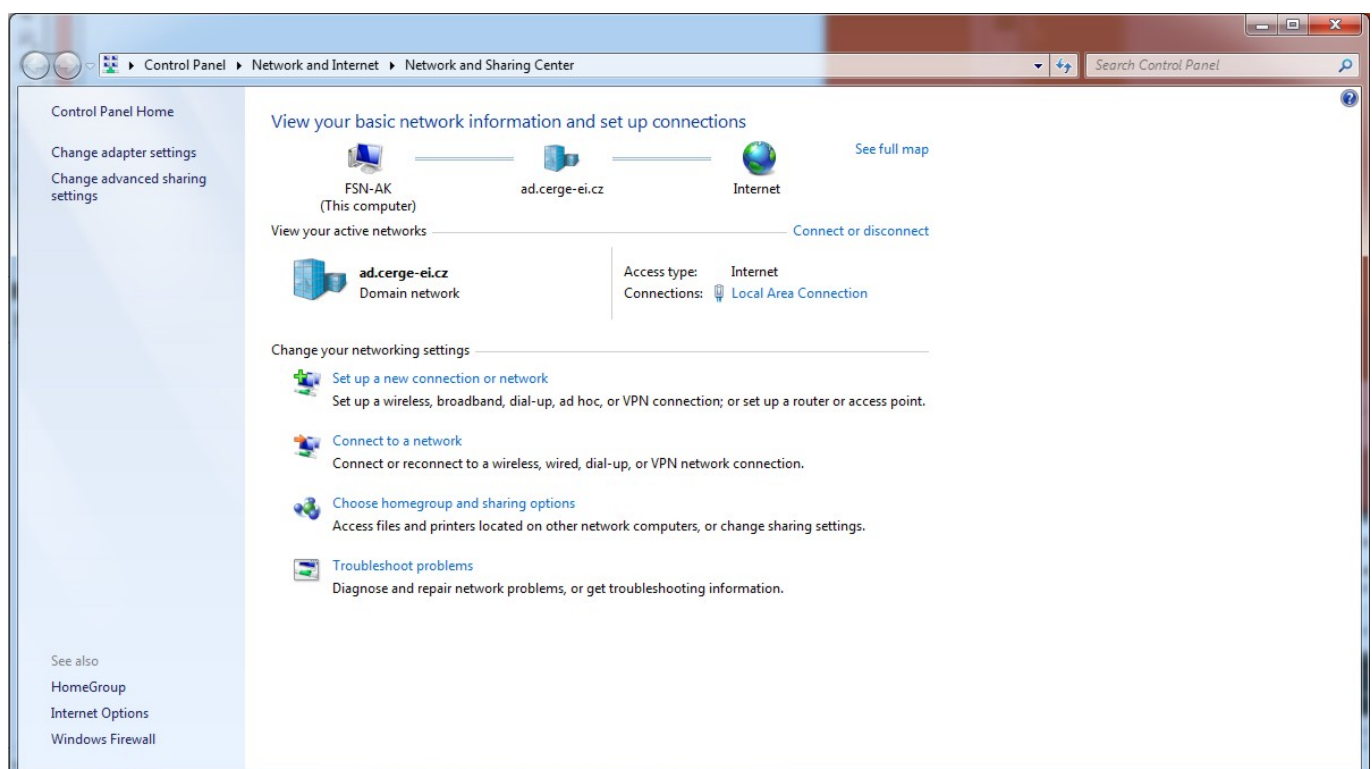
It provides basic network information and set up connections (your computer name, domain network name/Active Directory etc.)

If the icon is crossed out, as shown bellow, it means that your computer has no network connection


Malfunctions in network services

Loss of network connectivity can manifest itself in different ways: logon failure due to inaccessible domain controller, no internet connection, mail server inaccessible, network resources inaccessible etc. Computer networking is structured in so called layers (https://en.wikipedia.org/wiki/OSI_model), where **layer 1** is the physical layer, which is practically the physical connection, a cable. Although you can't trace completely the whole physical route, at least you can first check the connection of your device to the network socket via a UTP cable, provided you are connected by a cable to the network. If you notice that your device has no network connectivity (see "Check connectivity") **check the cable first**.

RJ45 connector of UTP data cable and **Data wall socket**
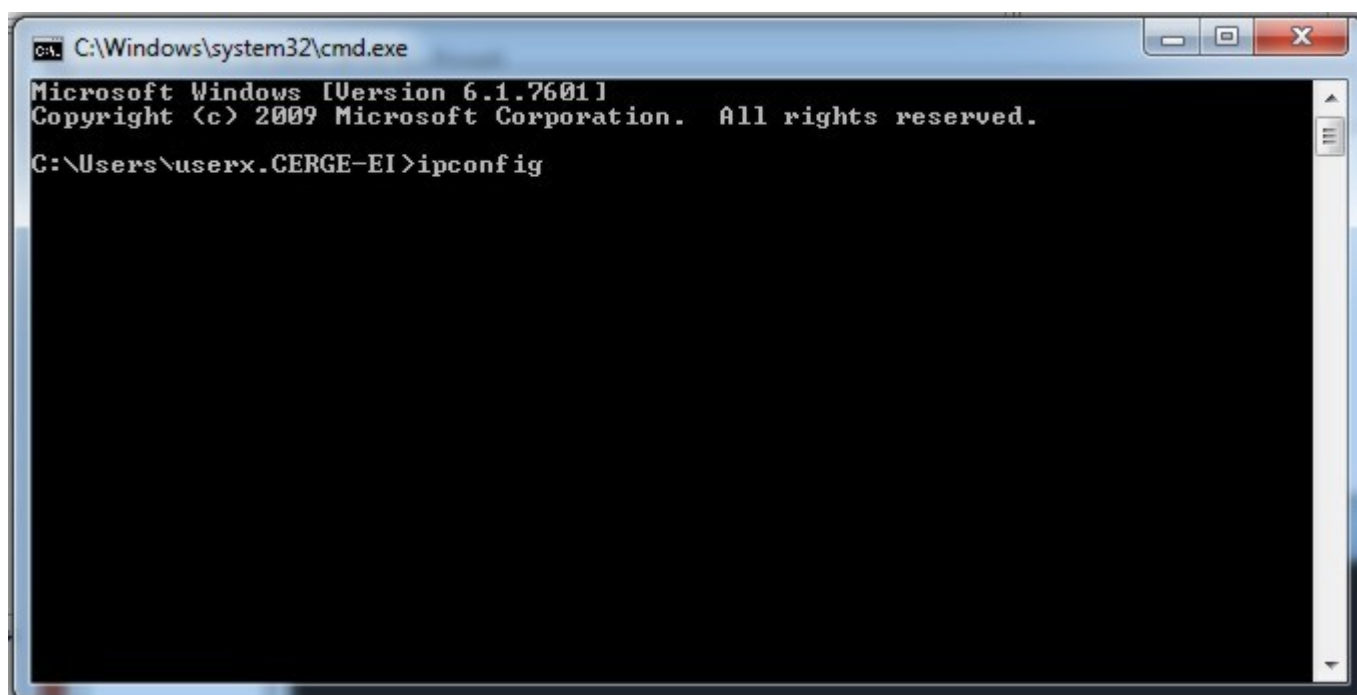
How to check IP address

1. Left-click on the windows icon in the bottom left of your screen;
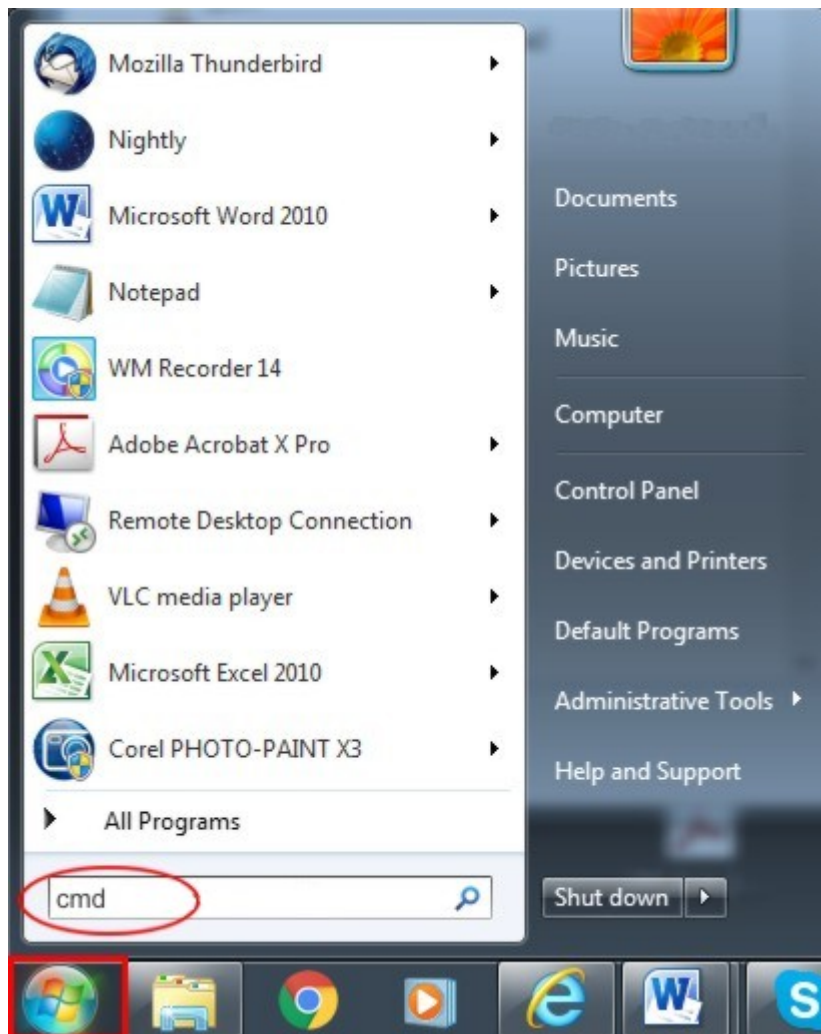
type **cmd** as indicated above and press Enter;

type **ipconfig** as indicated bellow

The IP address of your computer is displayed as indicated.

```
C:\Windows\system32\cmd.exe

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C:\Users\userx.CERGE-EI>ipconfig

Windows IP Configuration


Ethernet adapter Local Area Connection:

   Connection-specific DNS Suffix  . : cerge-ei.cz
   Link-local IPv6 Address . . . . . : fe80::f83a:82e9:6195:61a2%11
   IPv4 Address. . . . . . . . . . . : 195.113.13.240
   Subnet Mask . . . . . . . . . . . : 255.255.255.224
   Default Gateway . . . . . . . . . : 195.113.13.225

Tunnel adapter 6TO4 Adapter:

   Connection-specific DNS Suffix  . : cerge-ei.cz
   IPv6 Address. . . . . . . . . . . : 2002:c371:df0::c371:df0
   Default Gateway . . . . . . . . . : 2002:c058:6301::c058:6301

Tunnel adapter Teredo Tunneling Pseudo-Interface:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

Tunnel adapter isatap.cerge-ei.cz:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . : cerge-ei.cz
```

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