CERGE-EI Infrastructure Services - https://wiki.cerge-ei.cz/

Network Connection

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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.

Currently connected to:

ad.cerge-ei.cz Internet access

Open Network and Sharing Center



If you click on the icon and further on **Open Network and Sharing Center**, you'll get the following window:

Control Panel	 Network and Internet Network and Sharing Center 	ter	Search Control Panel
Control Panel Home	View your basic network information and set up connections		
Change adapter settings	A	See full map	
Change advanced sharing settings	FSN-AK ad.cer (This computer)	ge-ei.cz Internet	
	View your active networks	Connect or disconnect	
	ad.cerge-ei.cz	Access type: Internet	
	Domain network	Connections: 🏢 Local Area Connection	
	Change your networking settings		
	Set up a new connection or network		
	set up a wreless, broadband, dial-up, ad noc, or very connection, or set up a router or access point.		
	Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.		
	Choose homegroup and charing options		
	Access files and printers located on other network computers, or change sharing settings.		
	Troubleshoot problems		
	Diagnose and repair network problems, or get troubleshooting information.		
ee also			
lomeGroup			
nternet Options			

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



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.



How to differentiate 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

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