

Cisco Secure Client (AnyConnect) - Setting up NAM module

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FAQ-Artikel-Ausdruck

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Schlüsselwörter

Cisco AnyConnect NAM-Modul

Lösung (öffentlich)

Setup

Please download CISCO AnyConnect [1] from the ZIH-website and perform the setup as described in the setup guides, that you can find on the same webpage.

TAKE CARE: check whether the correct link text is displayed in the URL line of the browser:

"https://tu-dresden.de/zih/dienste/service-katalog/arbeitsumgebung/zugang_datennetz/vpn/ssl_vpn"

You should also check the authenticity of the certificate by clicking on the small lock symbol to the left of the URL. The connection must be secure and the certificate valid. Otherwise the website is fake and someone wants to phish your credentials or offer you malware for download, in which case you should contact the [2]Service Desk):

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Now download the Cisco Network Management (NAM) tool on the same webpage. Execute the file you just downloaded. The security warning "Möchten Sie diese Datei ausführen?" appears. Press "Ausführen".

Screenshot NAM module: security warning
- The Setup Wizard starts. Choose "Next" to start the setup.

Screenshot NAM module: start installation

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After that the License Agreement appears. Choose "I accept the terms in the License Agreement" and confirm by clicking "Next".

Screenshot NAM module: accept end user license agreement

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Now choose "Install" to start the Setup. Confirm the Windows-Security-Warning, that may appear.

Screenshot NAM module: begin installation
- Wait until the installation is completed.

Screenshot NAM module: wait for installation to get finished

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The setup is now completed. If you confirm by clicking "Finish".

Screenshot NAM module: complete installation

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Finally, a notification appears that the system must be restarted for the changes in the configuration to take effect. Press "Yes" to restart your computer. Note that unsaved changes to your work may be lost. If you have to finish other work before restarting, press "No" and restart your computer manually.

Screenshot NAM module: restart required

Configuration

After restarting Cisco AnyConnect will start automatically. In addition to the normal view, there is now the Cisco NAM-Module. There you can select different networks and connect to them easily. But before you can do this, the networks have to be configured.

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To do this, press the "gear-icon" on the lower left.

Screenshot CISCO AnyConnect: start window with NAM module

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Select Network. An overview of all saved networks is shown.

Screenshot CISCO AnyConnect: Status Overview

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To add a new network click the button "Add..." below the overview.

Screenshot CISCO AnyConnect: Network Access Manager

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On the line "Media" select "Wired" to add a new, wired Network.

Screenshot CISCO AnyConnect: add network

Insert the name of the VLAN to which you want to connect at "Descriptive Name" (you can find an overview of the available VLANs in the [3]Dyport Portal).

Screenshot CISCO AnyConnect: add network selection Wired

Choose "802.1X" ("Security") and "EAP-TTLS" ("password"). When you are done selecting the options, confirm by pressing "OK".

Screenshot CISCO AnyConnect: add network security settings

The order of the entries can be changed using the arrow buttons on the right. Each time the TP is activated and each time the computer is started, the top wired entry is used first. Without an active TP connection, the WLAN can be used automatically with a WiFi entry for eduroam.

Screenshot CISCO AnyConnect: network added Usage

To connect to the previously configured network, select it from the drop-down-list on the main screen.

Screenshot CISCO AnyConnect: Secure Mobility Client Network Selection

When connecting for the first time, you are asked to enter your login and password. Your login is your "ZIH-login@VLAN-name" you wish to connect to. Your password is your ZIH-password. The password is saved in AnyConnect so that a quick network change is possible.

Screenshot CISCO AnyConnect: Secure Mobility Client enter credentials

Further information on 802.1X and MAB can be found in the [4]Dyport description.

Troubleshooting

If the Windows login is denied with the error Only one user after the NAM module installation or if multiple login sessions are required, the following registry entry must be set:

[5]HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Authentication\Credential Providers\{B12744B8-5BB7-463a-B85E-BB7627E73002}\EnforceSingleLogon=0

A description can be found in the [6]AnyConnect Secure Mobility Client Administrator Guide.

[1] https://tu-dresden.de/zih/dienste/service-katalog/arbeitsumgebung/zugang_datennetz/vpn/ssl_vpn

[2] <mailto:service@tu-dresden.de>

[3] <https://dyport.zih.tu-dresden.de/>

[4] https://tu-dresden.de/zih/dienste/service-katalog/arbeitsumgebung/bereitstellung_datennetz/dyport

[5] http://HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Authentication\Credential Providers\{B12744B8-5BB7-463a-B85E-BB7627E73002}\EnforceSingleLogon=0

[6] https://www.cisco.com/c/en/us/td/docs/security/vpn_client/anyconnect/anyconnect41/administration/guide/b_AnyConnect_Administrator_Guide_4-1/configure_nam.html