

OpenVPN Installation, Automatic Start and Automatic Connection using Windows 10

This presentation installs OpenVPN. The presentation configures OpenVPN to launch at startup and log into the M State mait VPN. The presentation joins the domain "mait.minnesota.edu".

OS: Windows 10 1909

Preuss
3/31/2020



The presentation logs into a virtual machine as non-administrator. This screen shows the virtual machine configuration.

Virtual Machine Settings

Hardware Options

Device	Summary
Memory	4 GB
Processors	2
Hard Disk (SCSI)	60 GB
CD/DVD (SATA)	Using file C:\Program Files (x...
Floppy	Auto detect
Network Adapter	Bridged (Automatic)
USB Controller	Present
Sound Card	Auto detect
Display	Auto detect

Add... Remove

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: 4096 MB

- Maximum recommended memory (Memory swapping may occur beyond this size.) 27.7 GB
- Recommended memory 2 GB
- Guest OS recommended minimum 1 GB

The virtual machine will use up to 1 GB of this memory for graphics memory. You can change this amount in the Display settings page.

OK Cancel Help



File Explorer window titled "Downloads" with the "Extract" ribbon tab selected. The ribbon includes "File", "Home", "Share", "View", and "Compressed Folder Tools". The address bar shows "This PC > Downloads".

Name	Date modified	Type	Size
Earlier this year (1)			
vpn-spring2020	1/3/2020 11:58 AM	Compressed (zipp...	3,965 KB

A yellow sticky note is overlaid on the file list with the text: "The presentation downloads a copy of the current semester VPN zip file from the class D2L Bright Space page."

At the bottom left of the window, it says "1 item | 1 item selected 3.87 MB".



Extract Downloads

vpn-spring2020

File Home Share View

< > > This PC > Downloads > vpn-spring2020 > Search vpn-spring2020

Name	Date modified	Type	Size
vpn	3/31/2020 8:41 AM	File folder	

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- OneDrive
- This PC
- Network

The presentation uncompresses the zip file. The presentation enters the folder shown.

1 item



Extract Downloads

File Home Share View

← → ↕ ↑ > This PC > Downloads > vpn-spring2020 > vpn > Search vpn

Name	Date modified	Type	Size
Android	3/31/2020 8:41 AM	File folder	
IOS	3/31/2020 8:41 AM	File folder	
Linux	3/31/2020 8:41 AM	File folder	
Macintosh	3/31/2020 8:41 AM	File folder	
Windows	3/31/2020 8:41 AM	File folder	

Quick access: Desktop, Downloads, Documents, Pictures, OneDrive, This PC, Network

5 items

The presentation opens the "Windows" folder.



Windows

File Home Share View

← → ↕ ↑ > This PC > Downloads > vpn-spring2020 > vpn > Windows

Name	Date modified	Type	Size
openvpn-egypt-UDP4-1194-spring2020_s...	12/23/2019 11:57 AM	Application	3,990 KB

Quick access

- Desktop
- Downloads
- Documents
- Pictures
- OneDrive
- This PC
- Network

The presentation launches the OpenVPN Windows installer.

1 item

The presentation gives administration permission to the OpenVPN installer.

User Account Control ✕

Do you want to allow this app from an unknown publisher to make changes to your device?

openvpn-postinstall.exe

Publisher: Unknown
File origin: Hard drive on this computer

[Show more details](#)


To continue, enter an admin user name and password.

tpreuss

DESKTOP-SR1JEHC\tpreuss



OpenVPN Configuration Setup



Welcome to OpenVPN installer.


This wizard will guide you through the installation of the OpenVPN client and configuration.

This will automatically install the configuration files needed for your connection.

The presentation selects "Install" to continue.



OpenVPN 2.4.7-I603 Setup



Welcome to the OpenVPN 2.4.7-I603 Setup Wizard

This wizard will guide you through the installation of OpenVPN , an Open Source VPN package by James Yonan.

Note that the Windows version of OpenVPN will only run on Windows Vista, or higher.

Next > Cancel

The presentation selects "Next" to continue



OpenVPN 2.4.7-I603 Setup

OPENVPN License Agreement
Please review the license terms before installing OpenVPN 2.4.7-I603.

Press Page Down to see the rest of the agreement.

OpenVPN (TM) -- An Open Source VPN daemon
Copyright (C) 2002-2018 OpenVPN Inc <sales@openvpn.net>
This distribution contains multiple components, some of which fall under different licenses. By using OpenVPN or any of the bundled components enumerated below, you agree to be bound by the conditions of the license for each respective component.
OpenVPN trademark

If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install OpenVPN 2.4.7-I603.

Nullsoft Install System v2.51-1

< Back I Agree Cancel

The presentation reviews the license. The presentation selects "I Agree" to continue.



OpenVPN 2.4.7-I603 Setup

Choose Components
Choose which features of OpenVPN 2.4.7-I603 you want to install.

Select the components to install/upgrade. Stop any OpenVPN processes or the OpenVPN service if it is running. All DLLs are installed locally.

Select components to install:

- OpenVPN User-Space Components
- OpenVPN Service
- TAP Virtual Ethernet Adapter
- OpenVPN GUI
- EasyRSA 2 Certificate Management Scripts
- Advanced**

Space required: 14.1MB

Description
Position your mouse over a component to see its description.

Nullsoft Install System v2.51-1

< Back **Next >** Cancel

The presentation leaves the default options. The presentation does not make any changes. The presentation selects "Next" to continue.



OpenVPN 2.4.7-I603 Setup

OPENVPN Choose Install Location
Choose the folder in which to install OpenVPN 2.4.7-I603.

Setup will install OpenVPN 2.4.7-I603 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.

Destination Folder

Browse...

Space required: 14.1MB
Space available: 33.8GB

Nullsoft Install System v2.51-1

< Back Install Cancel


The presentation does not change the destination folder. The presentation selects "Install" to continue.




OpenVPN 2.4.7-I603 Setup

Windows Security

Would you like to install this device software?

 Name: TAP-Windows Provider V9 Network adapters
Publisher: OpenVPN Technologies, Inc.

Always trust software from "OpenVPN Technologies, Inc." Install Don't Install

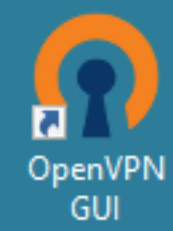
 You should only install driver software from publishers you trust. [How can I decide which device software is safe to install?](#)

Extract: tap-windows.exe
Installing TAP (may need confirmation)...

Nullsoft Install System v2.51-1

< Back Next > Cancel

The presentation selects "Install" to install the device software.



OpenVPN 2.4.7-I603 Setup

OPENVPN **Installation Complete**
Setup was completed successfully.

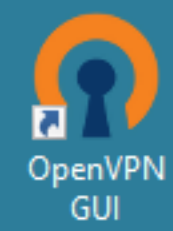
Completed

Output folder: C:\Program Files\OpenVPN
Extract: icon.ico
Output folder: C:\Program Files\OpenVPN\doc
Extract: license.txt
Created uninstaller: C:\Program Files\OpenVPN\Uninstall.exe
Starting OpenVPN Interactive Service
Checking .NET Framework version...
.NET Framework 4.0 Full found, no need to install.
Proceeding with remainder of installation.
Completed

Nullsoft Install System v2.51-1

< Back **Next >** Cancel

The presentation selects "Next" to continue.



OpenVPN 2.4.7-I603 Setup

Completing the OpenVPN 2.4.7-I603 Setup Wizard

OpenVPN 2.4.7-I603 has been installed on your computer.
Click Finish to close this wizard.

Show Readme

< Back **Finish** Cancel

The presentation selects "Finish" to continue.



INSTALL-win32 - Notepad

File Edit Format View Help

GENERAL QUICKSTART FOR WINDOWS

OpenVPN requires a configuration file obtain these and save them to OpenVPN C:\Program Files\OpenVPN\config. Start put user-specific configurations to %U OpenVPN GUI.

You can run OpenVPN as a Windows system command-prompt. To use the OpenVPN GUI start menu icon. OpenVPN GUI is a system tray icon, and a menu should appear when configuration files, and giving you the 2.4-alpha1 admin privileges are no longer connections using configuration files (usually C:\Program Files\OpenVPN\config administrator group, or to the local "store configuration files under %USERP cases OpenVPN Interactive Service need administrator privileges are still required connections. For further details please

<https://github.com/OpenVPN/openvpn-gui>

OpenVPN 2.4-alpha1 and later come bundled with three system services:

- OpenVPNService (new, improved background service)
- OpenVPNServiceInteractive (required to run GUI as non-admin)

Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8

OpenVPN Configuration Setup

Installation Complete

Setup was completed successfully.

Completed

Pausing installation while OpenVPN installer runs.
Execute: ".\openvpn-install.exe"
Completed OpenVPN installation.
Installing configuration files ...
Installing certificate and key files ...
Completed

Nullsoft Install System v2.50-1

< Back Close Cancel

The presentation selects "Close" to continue. The presentation closes the "Notepad" window.



START

preuss

Documents

Sleep

Shut down

Restart

Power

School Essentials

Office	Word	Excel
Outlook	PowerPoint	Jot notes Type, write, or draw your ideas and notes OneNote
OneDrive	Teams	Microsoft Edge

The presentation selects "Restart" to continue the installation.



The presentation clicks on "^" symbol to show this screen.
The presentation right click on the computer with lock icon.



The presentation selects "Connect".



- Connect
- Disconnect
- Reconnect
- Show Status


- View Log
- Edit Config
- Clear Saved Passwords

- Import file...
- Settings...
- Exit



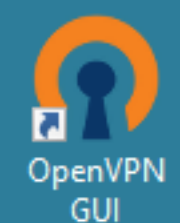
The virtual machine successfully connected to the M State mait vpn.



 **egypt-UDP4-1194-spring2020_student-config is now connected**
Assigned IP: 192.168.164.2,
2607:f930:1200:acff::1000
OpenVPN GUI for Windows



Recycle Bin

Microsoft
EdgeOpenVPN
GUI

```
Command Prompt
Microsoft Windows [Version 10.0.18363.752]
(c) 2019 Microsoft Corporation. All rights reserved.

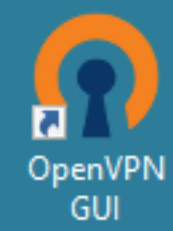
C:\Users\preuss>cd Documents
C:\Users\preuss\Documents>ping chile.mait.minnesota.edu

Pinging chile.mait.minnesota.edu [2607:f930:1200:ac00::ec28] with 32 bytes of data:
Reply from 2607:f930:1200:ac00::ec28: time=30ms
Reply from 2607:f930:1200:ac00::ec28: time=31ms
Reply from 2607:f930:1200:ac00::ec28: time=35ms
Reply from 2607:f930:1200:ac00::ec28: time=33ms

Ping statistics for 2607:f930:1200:ac00::ec28:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 30ms, Maximum = 35ms, Average = 32ms

C:\Users\preuss\Documents>
```

The presentation successfully tests the connection to the "mait.minnesota.edu" network over the vpn.



Local Disk (C:)

File Home Share View

This PC > Local Disk (C:) >

Search Local Disk (C:)

Name	Date modified	Type	Size
PerfLogs	3/18/2019 11:52 PM	File folder	
Program Files	3/31/2020 8:43 AM	File folder	
Program Files (x86)	3/1/2020 2:29 PM	File folder	
Users	12/14/2019 8:31 AM	File folder	
Windows	3/31/2020 8:39 AM	File folder	
openvpn	3/31/2020 8:46 AM	File folder	

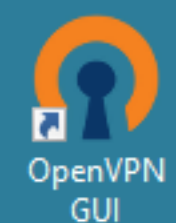
6 items | 1 item selected

The presentation creates an "openvpn" folder on the root directory as shown.

Really this directory could be anywhere, but the root directory makes the folder easier to find later.



Recycle Bin

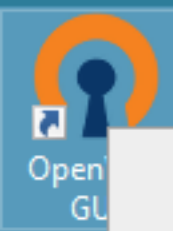
Microsoft
EdgeOpenVPN
GUI

The presentation opens "Notepad" and creates the batch file shown.

Remember to save the file as "openvpn_autostart.bat". It is important "Notepad" saves the file as all file types.

```
File Edit Format View Help
REM This is the OpenVPN Autostart batch file
REM https://www.ovpn.com/en/blog/windows-run-openvpn-automatically-on-computer-startup/
REM https://www.smarthomebeginner.com/auto-connect-to-openvpn-windows-10/
REM Task Scheduler setup: https://www.sevenforums.com/tutorials/67503-task-create-run-program-startup-log.html
REM Preuss 3/30/2020

echo "Starting VPN"
"c:\program files\openvpn\bin\openvpn-gui" --connect "egypt-UDP4-1194-spring2020_student-config.ovpn"
echo "VPN Connection should be ready"
```



- Open
- Open file location
- Run as administrator
- Troubleshoot compatibility
- Pin to Start
- Scan with Windows Defender...
- Pin to taskbar
- Restore previous versions
- Send to
- Cut
- Copy
- Create shortcut
- Delete
- Rename
- Properties

The presentation right clicks on the "Openvpn Gui" icon. The presentation selects "Open file location".

modified	Type	Size
2020 7:41 AM	Windows Batch File	1 KB

```

locally-on-computer-startup/
n-windows-10/
als/67503-task-create-run-program-startup-log.html

echo "Starting VPN"
"c:\program files\openvpn\bin\openvpn-gui" --connect "egypt-UDP4-1194-spring2020_student-config.ovpn"
echo "VPN Connection should be ready"

```


Recycle Bin

Microsoft Edge

OpenVPN GUI

Quick access: Desktop, Downloads, Documents, Pictures, OneDrive

This PC: 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Local Disk (C:), Network

File Explorer: Manage bin

Address bar: This PC > Local Disk (C:) > Program Files > OpenVPN > bin

Name	Date modified	Type	Size
libcrypto-1_1-x64.dll	2/21/2019 2:42 PM	Application Extension	850 KB
liblzo2-2.dll	2/21/2019 2:42 PM	Application Extension	850 KB
libpkcs11-helper-1.dll	2/21/2019 2:42 PM	Application Extension	850 KB
libssl-1_1-x64.dll	2/21/2019 2:42 PM	Application Extension	850 KB
openssl	2/21/2019 2:42 PM	Application	1,179 KB
openvpn	2/21/2019 2:42 PM	Application	1,030 KB
openvpn-gui	2/21/2019 2:42 PM	Application	682 KB

This is the path to the "openvpn-gui" program.

Notepad: openvpn_autostart

```
File Edit Format View Help
REM This is the OpenVPN Autostart batch file
REM https://www.ovpn.com/en/blog/windows-run-openvpn-automatically-on-computer-startup/
REM https://www.smarthomebeginner.com/auto-connect-to-openvpn-windows-10/
REM Task Scheduler setup: https://www.sevenforums.com/tutorials/67503-task-create-run-program-startup-log.html
REM Preuss 3/30/2020

echo "Starting VPN"
"C:\program files\openvpn\bin\openvpn-gui"
echo "VPN Connection should be ready"
```

The text in blue comes from the information in the above window. This information must be in quotes because of the spaces in the folder names.

- Recycle Bin
- OpenVPN GUI
- Microsoft Edge

File Explorer window titled 'config' showing a file list in 'Details' view.

Name	Date modified	Type
egypt-UDP4-1194-spring2020_student-c...	12/23/2019 12:56 PM	OpenVPN Co...
egypt-UDP4-1194-spring2020_student-tls...	12/23/2019 12:56 PM	KEY File
README.txt	3/31/2020 8:43 AM	Text Documen...

Navigation pane on the left shows 'Local Disk (C:)' selected.

The presentation enables showing file name extension. This is a good idea.

Terminal window showing command execution:

```
C:\program files\openvpn\bin\openvpn-gui --connect egypt-UDP4-1194-spring2020_student-config.ovpn
echo "VPN Connection should be ready"
```

Status bar: Ln 9, Col 2 | 100% | Windows (CRLF) | UTF-8

Recycle Bin

OpenVPN GUI

Microsoft Edge

config

File Home Share View

← → ↶ ↷ > This PC > Local Disk (C:) > Program Files > OpenVPN > config

Name	Date modified	Type	Size
egypt-UDP4-1194-spring2020_student.p12	12/23/2019 12:56 PM	Personal Informati...	6 KB
egypt-UDP4-1194-spring2020_student-config.ovpn	12/23/2019 12:56 PM	OpenVPN Config ...	1 KB

openvpn_autostart.bat - Notepad

File Edit Format View Help

REM This is the OpenVPN Autostart batch file

REM <https://www.ovpn.com/en/blog/windows-run-openvpn-automatically-on-computer-startup/>

REM <https://www.smarthomebeginner.com/auto-connect-to-openvpn-windows-10/>

REM Task Scheduler setup: <https://www.sevenforums.com/tutorials/67503-task-create-run-program-startup-log.html>

REM Preuss 3/30/2020

echo "Starting VPN"

"c:\program files\openvpn\bin\openvpn-gui" --connect "egypt-UDP4-1194-spring2020_student-config.ovpn"

echo "VPN Connection should be ready"

(CRLF) UTF-8

The text in blue is the current semester openvpn configuration file. The current plan calls for this file to change every semester. It is important to use the current semester configuration file in the batch file.



Recycle Bin



OpenVPN GUI

START

preuss

Documents

Sleep

Shut down

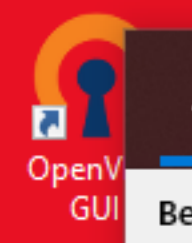
Restart

Power

School Essentials


Office	Word	Excel
Outlook	PowerPoint	OneNote
OneDrive	Teams	Microsoft Edge

The presentation selects "Restart" to continue the installation.




All Apps Documents Web More ▾






Best match

 **Task Scheduler**
App

Search the web

🔍 task Scheduler - See web results >


Task Scheduler
App

-  Open
-  Run as administrator
-  Open file location
-  Pin to Start
-  Pin to taskbar

The presentation launches "Task Scheduler".



Task Scheduler

File Action View Help

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run R
...	Ready	At 8:00 AM on 5/1/1992 - After triggered, repeat every 1.00:00:00 indefinitely.	4/1/2020 8:19:18 AM	11/30/1999 12:00:00 AM	The task h
...	Ready	At 3:00 PM on 5/1/1992 - After triggered, repeat every 1.00:00:00 indefinitely.	3/31/2020 6:10:01 PM	3/30/2020 8:48:32 PM	(0x8004EE

Task Scheduler (Local)

- Task Scheduler Library
 - Micr
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - View
 - Refresh
 - Help

Actions

- Task Scheduler Library
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - View
 - Refresh
 - Help
- Selected Item
 - Run
 - End
 - Disable
 - Export...
 - Properties
 - Delete
 - Help

Location: \

Author: Microsoft

Description:

Security options

When running the task, use the following user account:
 DESKTOP-SR1JEHC\tpreuss

Run only when user is logged on

Run whether user is logged on or not

Do not store password. The task will only have access to local resources

The presentation right clicks on "Task Scheduler Library" and selects "New Folder ..."

Creates a subfolder of the selected folder.



Task Scheduler

File Action View Help

Task Scheduler (Local)

- Task Scheduler Library
 - Microsoft

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run R
OneDrive St...	Ready	At 8:00 AM on 5/1/1992 - After triggered, repeat every 1.00:00:00 indefinitely.	4/1/2020 8:19:18 AM	11/30/1999 12:00:00 AM	The task h
OneDrive St...	Ready	At 3:00 PM on 5/1/1992 - After triggered, repeat every 1.00:00:00 indefinitely.	3/31/2020 6:10:01 PM	3/30/2020 8:48:32 PM	(0x8004EE

Enter name of the new folder

Name:

OK Cancel

General Triggers Actions Conditions Settings Hist

Name: OneDrive Standalone Update Task-S-1-5-2

Location: \

Author: Microsoft Corporation

Description:

Security options

When running the task, use the following

DESKTOP-SR1JEHC\tpreuss

Run only when user is logged on

Run whether user is logged on or not

Do not store password. The task v

Actions

- Task Scheduler Library
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - View
 - Refresh
 - Help
- Selected Item
 - Run
 - End
 - Disable
 - Export...
 - Properties
 - Delete
 - Help

The presentation creates a new folder named "openvpn". The presentation selects "OK" to continue.



Task Scheduler

File Action View Help



- Task Scheduler (Local)
- Task Scheduler Library
 - Microsoft
 - openvpn

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result	Author	Created

The presentation selects "Create Task ..." to continue.

Actions

- openvpn
- Create Basic Task...
- Create Task...
- Import Task...
- Display All Running Tasks
- Enable All Tasks History
- New Folder...
- Delete Folder
- View
- Refresh
- Help



Recycle Bin

Microsoft
EdgeOpenVPN
GUI

openvpn_autostart Properties (Local Computer) ✕

General Triggers Actions Conditions Settings History

Name:

Location:

Author: MAIT01\tpreuss

Description:

Security options

When running the task, use the following user account:

Run only when user is logged on

Run whether user is logged on or not

Do not store password. The task will only have access to local computer resources.

Run with highest privileges

Hidden Configure for:

Under the "General" tab, the presentation configures the screen as shown. The presentation selects "Triggers" tab to continue.



Task Scheduler

File Action View Help

Task Scheduler (Local)

- Task Scheduler Library
 - Microsoft
 - openvpn

Create Task

General Triggers Actions Conditions Settings

When you create a task, you can specify the conditions that will trigger the task.

Trigger	Details	Status
---------	---------	--------

New... Edit... Delete

OK Cancel

Actions

- openvpn
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - Delete Folder
 - View
 - Refresh
 - Help

The presentation selects "New" to continue on the "Tiggers" tab.



Task Scheduler

File Action View Help

Task Scheduler (Local)

- Task Scheduler Library
 - Microsoft
 - openvpn

Create Task

General Triggers Actions Conditions Settings

When you create a task, you must specify the action that will occur when your task starts.

Action	Details
--------	---------

New... Edit... Delete

OK Cancel

Actions

- openvpn
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - Delete Folder
 - View
 - Refresh
 - Help

The presentation selects "New" to continue.



Task Scheduler

File Action View Help

Task Scheduler (Local)

- Task Scheduler Library
 - Microsoft
 - openvpn

Name	Status	Trig	Next Run Time	Last Run Time	Last Run Result	Author	Created
[Empty table body]							

Actions

- openvpn
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - Delete Folder
 - View
 - Refresh
 - Help

Create Task

General Triggers Actions Conditions Settings

When

New Action

You must specify what action this task will perform.

Action: Start a program

Settings

Program/script: C:\openvpn\openvpn_autostart.bat

Add arguments (optional):

Start in (optional):

OK Cancel

The presentation uses the "Browse" button to select the batch file created earlier. The presentation selects "OK" to continue.



Task Scheduler

File Action View Help

Task Scheduler (Local)

- Task Scheduler Library
 - Microsoft
 - openvpn

Name	Status	Trig	Next P	Last P	Last P	Next P	Author	Created
------	--------	------	--------	--------	--------	--------	--------	---------

Create Task

General Triggers Actions Conditions Settings

Specify the conditions that, along with the trigger, determine whether the task should run. The task will not run if any condition specified here is not true.

Idle

- Start the task only if the computer is idle for: 10 minutes
- Wait for idle for: 1 hour
- Stop if the computer ceases to be idle
- Restart if the idle state resumes

Power

- Start the task only if the computer is on AC power
- Stop if the computer switches to battery power
- Wake the computer to run this task

Network

- Start only if the following network connection is available: Any connection

OK Cancel

Actions

- openvpn
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - Delete Folder
 - View
 - Refresh
 - Help

The presentation sets the "Conditions" tab as shown. The presentation selects "Settings" tab to continue.



Task Scheduler

File Action View Help

Task Scheduler (Local)

- Task Scheduler Library
 - Microsoft
 - openvpn

Name	Status	Triggers	Next Run	Last Run	Next Run	Last Run	Next Run	Author	Created
------	--------	----------	----------	----------	----------	----------	----------	--------	---------

Create Task

General Triggers Actions Conditions Settings

Specify additional settings that affect the behavior of the task.

- Allow task to be run on demand
- Run task as soon as possible after a scheduled start is missed
- If the task fails, restart every: 1 minute
 - Attempt to restart up to: 3 times
- Stop the task if it runs longer than: 3 days
- If the running task does not end when requested, force it to stop
- If the task is not scheduled to run again, delete it after: 30 days

If the task is already running, then the following rule applies:

Do not start a new instance

OK Cancel

Actions

- openvpn
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - Delete Folder
 - View
 - Refresh
 - Help

The presentation configures the "Settings" tab as shown. The presentation selects "OK" to continue.



Task Scheduler

File Action View Help

Task Scheduler (Local)

- Task Scheduler Library
 - Microsoft
 - openvpn

Actions

- openvpn
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - Delete Folder
 - View
 - Refresh
 - Help

Create Task

General Triggers Actions Conditions Settings

Specify additional settings that affect the behavior of the task.

- Allow task to be run on demand
- Run task as soon as possible after a scheduled start is missed
- If the task fails, Attempt to restart the task
- Stop the task if it runs for longer than the specified time
- If the running task is older than the specified time, stop the task
- If the task is not successful, attempt to restart the task
- If the task is already running, do not start a new instance

Task Scheduler

Enter user account information for running this task.

User name: ... 30 days

Password:

OK Cancel

The presentation provides the administrator password to finish the Task Scheduler configuration.



Task Scheduler

File Action View Help



- Task Scheduler (Local)
 - Task Scheduler Library
 - Microsoft
 - openvpn

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result	Author	Created
openvpn_au...	Ready	At sys...		11/30/1999 ...	The task has ...	DESK...	3/31/2020 8:54:38 AM

General Triggers Actions Conditions Settings History (disabled)

Name:

Location:

Author:

Description:

The presentation enables "All Tasks History" to help with troubleshooting. The presentation closes the Task Scheduler.

Actions

- openvpn
 - Create Basic Task...
 - Create Task...
 - Import Task...
 - Display All Running Tasks
 - Enable All Tasks History
 - New Folder...
 - Delete Folder
 - View
 - Refresh
 - Help
- Selected Item
 - Run
 - End
 - Disable
 - Export...
 - Properties
 - Delete
 - Help



Settings

← Home

Find a setting 🔍

System

- Notifications & actions
- Focus assist
- Power & sleep
- Storage
- Tablet mode
- Multitasking
- Projecting to this PC
- Shared experiences
- Clipboard
- Remote Desktop
- About**

About

Your PC is monitored and protected.

- ✔ Virus & Threat Protection
- ✔ Firewall & Network Protection
- ✔ App & browser control
- ⚠ Account protection
- ✔ Device security

[See details in Windows Security](#)

Device specifications

Device name	DESKTOP-SR1JEHC
Processor	Intel(R) Core(TM) i5-9400H CPU @ 2.50GHz 2.50 GHz
Installed RAM	4.00 GB
Device ID	023AF5FB-EE79-4C1B-A89E-99524ED304EE
Product ID	00378-60400-57332-AA651
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

Rename this PC

Windows specifications

- Related settings
- [BitLocker settings](#)
 - [System info](#)

The presentation opens "Settings". In "Settings", the presentation opens "System" and selects "About". The presentation selects "System info" link.



System

Control Panel > System and Security > System

Search Control Panel

Control Panel Home


- Device Manager
- Remote settings
- System protection
- Advanced system settings

View basic information about your computer

Windows edition

Windows 10 Pro Education

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System

Processor: Intel(R) Core(TM) i5-9400H CPU @ 2.50GHz 2.50 GHz

Installed memory (RAM): 4.00 GB

System type: 64-bit Operating System, x64-based processor

Pen and Touch: No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name: DESKTOP-SR1JEHC [Change settings](#)

Full computer name: DESKTOP-SR1JEHC

Computer description:

Workgroup: WORKGROUP

Windows activation

Windows is activated [Read the Microsoft Software License Terms](#)

Product ID: 00378-60400-57332-AA651

See also

Security and Maintenance

The presentation selects "Change settings" link.



System Properties [X]

Computer Name | Hardware | Advanced | System Protection | Remote

Windows uses the following information to identify your computer on the network.

Computer description:
For example: "Kitchen Computer" or "Mary's Computer".

Full computer name: DESKTOP-SR1JEHC

Workgroup: WORKGROUP

To use a wizard to join a domain or workgroup, click Network ID.

To rename this computer or change its domain or workgroup, click Change.

The presentation selects "Change" button.



System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name:
mait01

Full computer name:
mait01

More...

Member of

Domain:

Workgroup:
WORKGROUP

OK Cancel

Computer Name/Domain Changes

i You must restart your computer to apply these changes

Before restarting, save any open files and close all programs.

OK

The presentation selects "OK" to apply the changes and reboot.

The presentation selects "OK" on all remaining open windows.



Microsoft Windows

You must restart your computer to apply these changes

Before restarting, save any open files and close all programs.

The presentation selects "Restart Now" to continue.
The virtual machine will reboot.



Recycle Bin

Microsoft
EdgeOpenVPN
GUI

```
Command Prompt
Microsoft Windows [Version 10.0.18363.752]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\tpreuss>cd Documents

C:\Users\tpreuss\Documents>ping chile.mait.minnesota.edu

Pinging chile.mait.minnesota.edu [2607:f930:1200:ac00:60bc:5348:8891:b366] with 32 bytes of data:
Reply from 2607:f930:1200:ac00:60bc:5348:8891:b366: time=29ms
Reply from 2607:f930:1200:ac00:60bc:5348:8891:b366: time=31ms
Reply from 2607:f930:1200:ac00:60bc:5348:8891:b366: time=38ms
Reply from 2607:f930:1200:ac00:60bc:5348:8891:b366: time=30ms

Ping statistics for 2607:f930:1200:ac00:60bc:5348:8891:b366:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 29ms, Maximum = 38ms, Average = 32ms

C:\Users\tpreuss\Documents>
```

After rebooting, the presentation log on as administrator and tests the vpn connection. The connection is good according to the test shown.



System Properties [X]

Computer Name | Hardware | Advanced | System Protection | Remote

Windows uses the following information to identify your computer on the network.

Computer description:
For example: "Kitchen Computer" or "Mary's Computer".

Full computer name: mait01

Workgroup: WORKGROUP

To use a wizard to join a domain or workgroup, click Network ID. [Network ID...]

To rename this computer or change its domain or workgroup, click Change. [Change...]

[OK] [Cancel] [Apply]

The presentation returns to "System Properties" to join the domain "mait.minnesota.edu". The presentation selects "Change" to continue.



System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name:
mait01

Full computer name:
mait01

More...

Member of

Domain:
mait.minnesota.edu

Workgroup:
WORKGROUP

OK Cancel

The presentation selects "Domain" and enters "mait.minnesota.edu" in the Domain box. The presentation selects "OK" to continue.



System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer.

Windows Security

Computer Name/Domain Changes

Enter the name and password of an account with permission to join the domain.

OK Cancel

The presentation enters the UPN of an OU administrator. The presentation provides the password and selects "OK" to continue.



System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name:
mait01

Full computer name:
mait01

More...

Member of

Domain:
mait.minnesota.edu

Workgroup:
WORKGROUP

OK

Computer Name/Domain Changes

📘 Welcome to the mait.minnesota.edu domain.

OK

The presentation selects "OK" to continue.



System Properties

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name:
mait01

Full computer name:
mait01

Member of

Domain:
mait.minnesota.edu

Workgroup:
WORKGROUP

OK Cancel

Computer Name/Domain Changes

i You must restart your computer to apply these changes

Before restarting, save any open files and close all programs.

OK

The presentation selects "OK" to continue. The presentation selects "OK" to any remaining open windows.



Recycle Bin



Microsoft Edge



OpenVPN GUI

Microsoft Windows

You must restart your computer to apply these changes

Before restarting, save any open files and close all programs.

The presentation selects "Restart Now" to continue.



Other user

preuss@mait.minnesota.edu ×

Password →

Sign in to: mait.minnesota.edu

[How do I sign in to another domain?](#)

The presentation enters the UPN and password of a member of the "people" group on the domain.

- tpreuss
- Other user



The presentation verifies on the local virtual machine that it is a member computer of the domain "mait.minnesota.edu" as shown.

Control Panel > System and Security > System

Search Control Panel

your computer

Windows 10

Core(TM) i5-9400H CPU @ 2.50GHz 2.50 GHz

Operating System, x64-based processor

Pen and Touch: Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name:	mait01	Change settings
Full computer name:	mait01.mait.minnesota.edu	
Computer description:		
Domain:	mait.minnesota.edu	

Windows activation

Windows is activated [Read the Microsoft Software License Terms](#)

Product ID: 00378-60400-57332-AA651 [Change product key](#)

See also

[Security and Maintenance](#)



```
Command Prompt
Microsoft Windows [Version 10.0.18363.752]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\preusszenon>cd documents

C:\Users\preusszenon\Documents>ping chile.mait.minnesota.edu

Pinging chile.mait.minnesota.edu [2607:f930:1200:ac00::ec28] with 32 bytes of data:
Reply from 2607:f930:1200:ac00::ec28: time=32ms
Reply from 2607:f930:1200:ac00::ec28: time=31ms
Reply from 2607:f930:1200:ac00::ec28: time=31ms
Reply from 2607:f930:1200:ac00::ec28: time=34ms

Ping statistics for 2607:f930:1200:ac00::ec28:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 31ms, Maximum = 34ms, Average = 32ms

C:\Users\preusszenon\Documents>hostname
mait01

C:\Users\preusszenon\Documents>
```

This will take some time to setup the account on the virtual machine. Once the log on is complete, the presentation tests the vpn connection. The connection is good.