Manual for setting up Minecraft and visiting the virtual TU Delft Campus

This manual will explain:
1. how to download, install and launch Minecraft on your Windows or Mac computer
2. how to log in, configure settings and set up a connection to the server so you can visit it
3. how to move around and interact when visiting the virtual campus
4. what kind of different places you can visit on our virtual campus and how

This manual can be found at https://virtualcampus.tudelft.nl/static/mcmanual.pdf

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1. Download, install and launch Minecraft

Step 1: Download

If you want to play Minecraft on Windows, go to:
https://launcher.mojang.com/download/MinecraftInstaller.msi
If you want to play Minecraft on Mac, go to:
https://launcher.mojang.com/download/Minecraft.dmg

Step 2: Install

Launch the Minecraft installer application that you downloaded in Step 1; it should prompt a few questions regarding installation and should not take too much time to install.

Step 3: Launch

When the installer is finished, open the Minecraft Launcher. It may first need to update; this too should not take long. When finished, you should be viewing this screen:
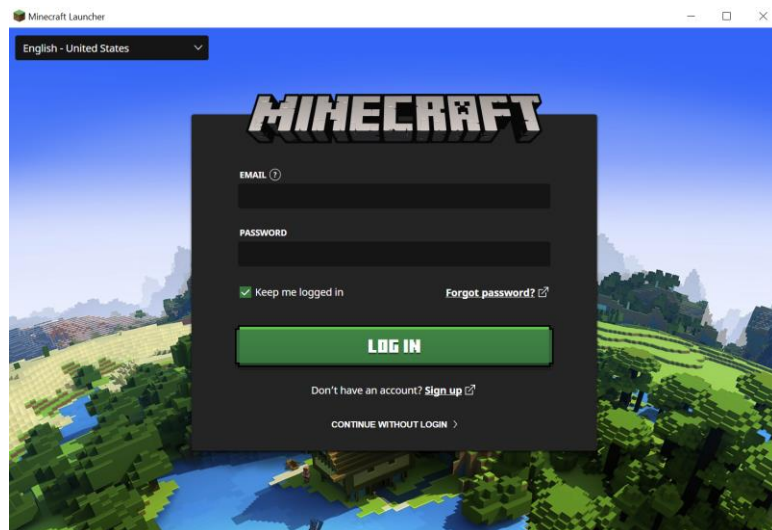
2. Log into Minecraft, configure version & connect to server

Step 1: Log in

To log into Minecraft, **you will need to have a license for the Java Edition of Minecraft**. If you do not currently have a Minecraft account, you can purchase it at:

https://my.minecraft.net/en-us/store/minecraft/#register

Please be aware that we use the Java Edition of Minecraft; that means that the Bedrock or Education Edition will not work with our server!

To log into Minecraft, please use the e-mail and password that you have linked to your Minecraft license.
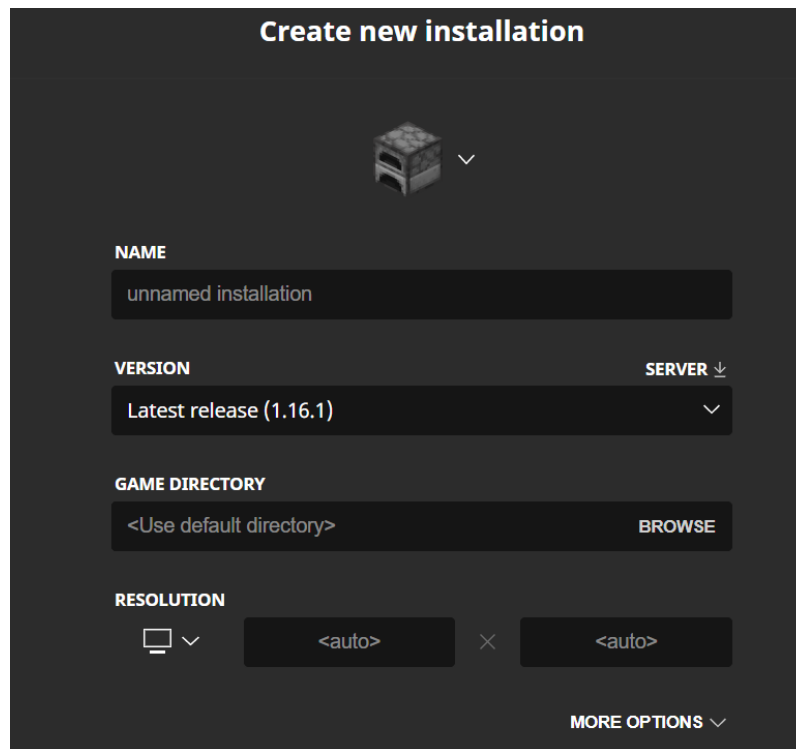
Step 2: Configure version

After logging in, you will be greeted with the following screen:

Minecraft occasionally receives a new version update, which means that certain elements also need to be updated on other devices, especially when using servers. While we try to keep the server as updated as possible, it could be the case that the server still runs on an older version. If that is the case (please inquire on our Slack about this before you do anything), you can **add an older version of Minecraft and use that one instead**.

If the server is up to date, simply make sure that **the bottom-left setting says "Latest release"** as it is saying in the picture above.

If the server is NOT up to date, click on the **"Installations" tab** at the top of your screen. This will open a separate tab where, at the top, you will see a button saying **"+ New…"; click this button** to open the following menu:

- In the "Name" section, you **can write any name you want** (but a good habit is to use the correct name of the version you want to install).
- In the "Version" section, **select the same version as the server**.

All the other settings can be left as is. When finished with the above two steps, **click the "Create" button** at the bottom right.

When going back to the main screen, **click the bottom left option saying "Latest release"** in the previous screenshot; this will reveal all the versions of Minecraft you have currently installed. **Select the same version as the server's** and **click the "Play" button in the bottom middle**. This will load Minecraft.

Step 3: Connect to the server

When Minecraft has finished loading, you will see the following screen:

Click the button with "Multiplayer" on it. This will bring you to the following menu:
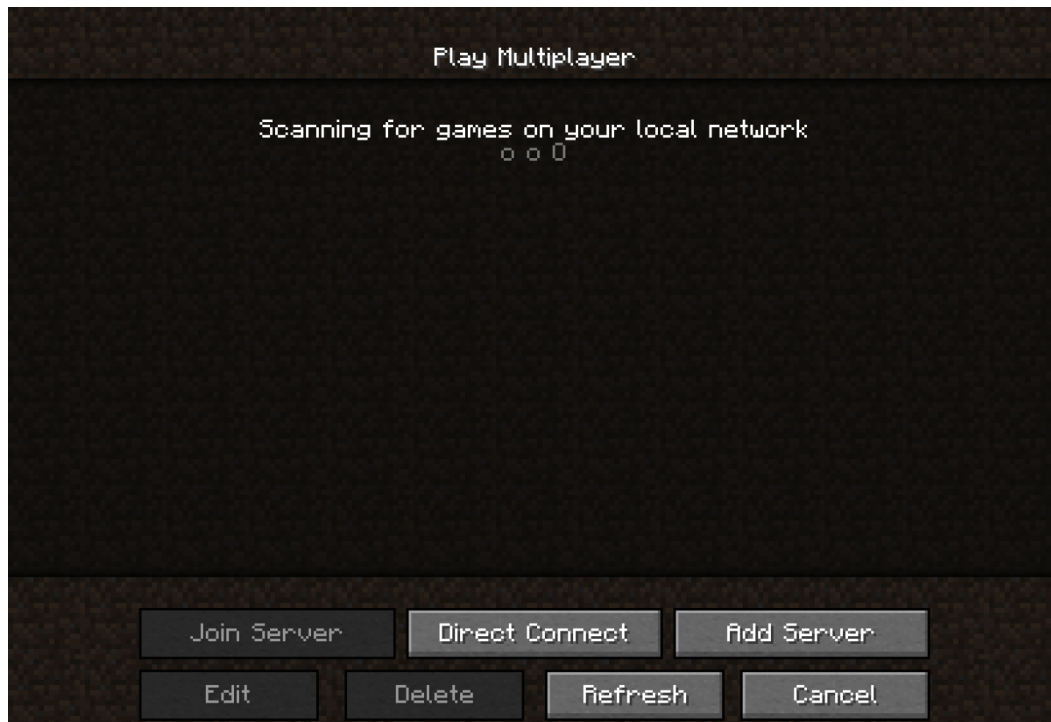
Click the button at the bottom right saying "Add Server"; this will in turn bring you to this screen:
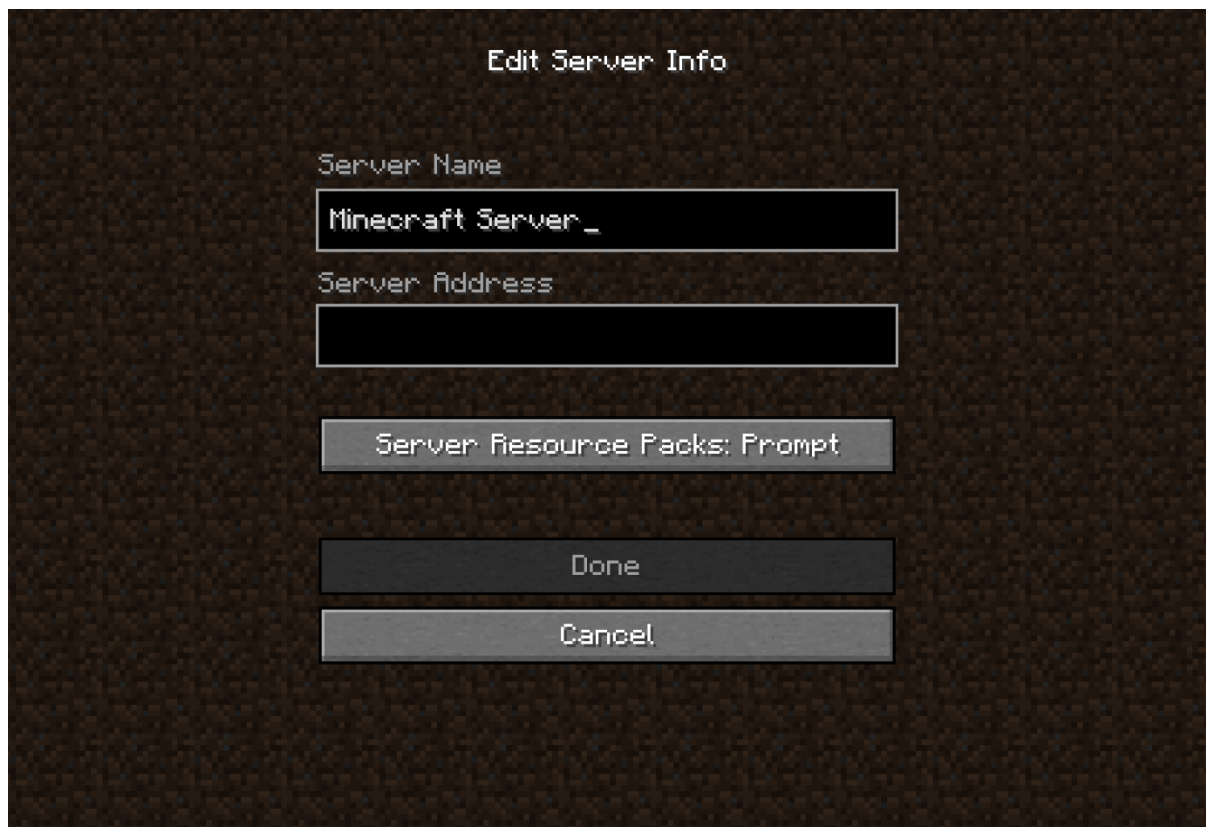
- In the **"Server Name"** section, type **"TU Delft Campus"**
- In the **"Server Address"** section, type **"virtualcampus.tudelft.nl"**

Select "Done" when you have finished these two steps. This will bring you back to the previous screen, where the server should now be viewable. Click on the server, then **select "Join Server"** at the bottom left. You will now be connecting to the server.

3. How to play Minecraft

Step 1: Moving

- To move around in Minecraft, use the **[W][A][S][D] keys** on your keyboard.
- Looking around is done with the **Mouse**.
- To run, double-press one of the **[W][A][S][D] keys** and keep holding it; your character will move quicker.

Step 2: Interacting

- By clicking the **LEFT Mouse button**, your character will hit whatever is in front. This can be used in different ways; you can attack another entity (if attacking someone is allowed) or break a block (if breaking it is allowed).
- By clicking the **RIGHT Mouse button**, you can interact with certain things (if they are interactable). For example, you can talk to characters you come across on the Campus by looking at them and clicking the Right Mouse button.

Step 3: Communicating

- In order to talk to other people, press the **[T] key** to bring up the chat menu. This will allow you to type any messages you want to send to others.

Step 4: Building

While you are not able to build while on our virtual Campus, you can build for yourself on the Creative and Survival Worlds (see chapter 4 for more information). Building in Minecraft can become quite complex, but we will try to explain some of the core mechanics here:

- In our Creative World, you will be able to build whatever you want, whenever you want. If you try to build on the Survival World, however, you will need to find your own resources and craft things for yourself. For more information on how to get resources, see *Step 5: Finding resources and crafting*.
- By pressing the **[E] key** on your keyboard, you are able to open your Menu. In the Creative World, this will show you different tabs with different blocks, which you can all use to build things. At the bottom of this window, you will see 9 open "Inventory spaces" in which you can drag and drop the blocks you want to use to build. You can change these at any time in the menu.
- When you exit the menu, you can use your **[1] to [9] keys** to switch between the Blocks that you want to hold in your hand.
- In order to place a Block, use your **RIGHT Mouse button** when holding the Block you intend to place.
- In order to remove a Block, use your **LEFT Mouse button** to click on that Block.
- Creative Mode also allows you to fly; in order to start flying, press the **[SPACE] key** twice rapidly. If you're already flying and want to get back to walking normally, again press the **[SPACE] key** twice rapidly to go back down.

There is a whole lot more to Minecraft and its building than what we've described here, but this should help you get started. If you want to learn more about Minecraft's mechanics, we suggest you look on the Internet for tutorials!

Step 5: Finding resources and crafting

Please note that the following only applies to our Survival World! In this World, building and making things takes a little more effort. The Survival World requires you to collect resources – wood, dirt, sand, sticks, stones, web, flint and much more – in order to make items and build your home. As a matter of fact, collecting these resources even requires you to make some tools – shovels, pickaxes, axes – for yourself, which then also need resources – it's not called Survival for nothing, this takes effort!
More so than the Creative World, the Survival World has rules that are not easily explained; we're going to try to explain some of the basics, but keep in mind that you will also have to figure things out for yourself if you want to learn how to properly play this mode and world!

- In general, whenever you start it is always a good idea to go look for wood (i.e. trees). You can hit wood with your **LEFT Mouse button**; after hitting it long enough, the wood will break and you can pick it up. This wood can then be used to craft tools.
- In order to craft Tools, you will need a Crafting Table. In your Menu (press the **[E] key**), you will see four squares at the top with the text "Crafting" above it. Place the wood in this area; to its right, you will now see planks. Take these planks, and fill the four squares with them. This will then give you a Crafting Table.
- Place the Crafting Table on the ground using the **RIGHT Mouse button**. Then, click on it again with the **RIGHT Mouse button**. This will open up the Crafting Menu. From here on, you will be able to build a huge amount of different things, such as Tools that allow for easier resource-finding, as long as you have the correct resources.

We stress again that this is only a fraction of what Minecraft has in store; if you really want to learn how to play this game and our Survival World, make sure to look for tutorials on the Internet!

4. Different worlds and how to visit them

The TU Delft Virtual Campus

The first place you're probably going to want to visit is our very own TU Delft Virtual Campus. This recreation of the actual, real-life TU Delft Campus has many things to discover and will have even more in the future, since we are constantly adding things!

Visitors are allowed to go around and see all the different spots (and compare them to their real-life equivalents). Visitors are not, however, allowed to place things (such as Blocks) or break things; we've made sure that that cannot be done to prevent malicious people from destroying our precious Campus! While you can move around normally, we've also made sure to allow you to "warp" to specific spots. In order to warp, you will need to open the Chat menu using the **[T] key** and type **"/warp "** + whatever place you want to warp to. The following names can be used after "**/warp** " to go to a specific location:

- 3me
- architecture
- aula
- civil
- eemcs
- fellowship
- io

- library
- lr
- pulse
- tn
- tpm
- tweewi
- X

Please be aware that we will continue to expand the Campus as much as we can – this means that from time to time, it will be worth coming back to our Minecraft server and see what new things have been added for you to discover. We plan to even add events, games and real-life activities to the Campus, so we hope to be able to give you enough to experience whenever you visit!

The Creative World

Apart from the Campus, we also offer a Creative World – here, you are able to build your own creations using unlimited resources!

There are a few important points to take note of here:

- In order to access our Creative World, you will need to be on our Campus and go to **the entrance of the Aula** (if you're not sure where that is, you can type "**/warp aula**" in the chat to instantly be teleported there). At the entrance of the Aula, you should see the following character standing there:

By talking to this character called "Construction" (using your **RIGHT Mouse button**), you will be teleported to the Creative World!

- Once you find yourself inside the Creative World, remember that you can go back to the Campus either by talking to the TU Delft character standing at the center of the map or by typing "**/campus**" in the chat!
- Inside the Creative World, you will be able to not just walk but also fly – try this out by pressing [**SPACE**] twice rapidly! Pressing it again will let you go back to walking.
- Our Creative World works with plots of land; anyone can claim a plot to build on as long as it is empty (not already owned by another player). **To claim a plot of your own**, make sure **to look for an empty plot**, stand on it (or fly above it) and **type "/plot claim"** in the chat (using the [T] key to open chat). If the plot is still free, it will now be claimed in your name and you can start building!
- If you're not sure how to build, please check out the previous chapter's *Step 4: Building* to learn some of the basics!
- We offer additional tools for you to use to make even more amazing creations! To get an idea of what these tools offer, type **"/plot help"** in the chat to see what options are available!

The Survival World

Last but certainly not least, we also offer a Survival World to play in. The Survival World follows the normal rules of Minecraft, albeit with some slight changes. For people who are new to the Minecraft experience, we recommend that you first read up on how Minecraft is normally played; this world contains monsters, resources and all sorts of things that might be very intimidating if you don't know what's happening! But it is certainly worth learning for, as this World allows you to go out on adventures, discover strange and mysterious structures and even create houses, villages or cities for yourself or for you and fellow players!
A couple of important points to discuss:

- In order to access our Survival World, you will need to be on our Campus and go to **the entrance of the Aula** (if you're not sure where that is, you can type "**/warp aula**" in the chat to instantly

be teleported there). At the entrance of the Aula, you should see the following character standing there:

By talking to this character called "Survival" (using your **RIGHT Mouse button**), you will be teleported to the Survival World!

- Once you find yourself inside the Survival World, remember that you can go back to the Campus either by talking to the TU Delft character standing at the center of the map or by typing "**/campus**" in the chat!
- If you ever get lost inside the Survival World, please type **"/warps spawn"** and press enter – this will teleport you all the way back to the starting point of the world!
- If this is your first time visiting the Survival World, you will appear inside our "Delftonia Town", a safe haven for all players. Inside this town (and some other structures that we've made), certain rules apply: monsters will not appear or attack, players cannot attack each other, players cannot destroy buildings, etc. If, however, you leave the walls of the town, these rules will no longer apply; this means that you can be attacked by different creatures during the day and (especially!) during the night. So stay alert!
- For some pointers on how to start your Survival experience, please see Steps 4 and 5 of the previous chapter to get an idea of where to begin.

As mentioned before, there is a lot more to the Survival World than what we've described here. We are thinking of adding more support (i.e. tutorials and such) in the future, but for now, if you want to learn how to play inside this World, please make sure to look for information on how to play Minecraft on the Internet! We hope you will enjoy many adventures!