

3DPrinterOS User Guide: Basics

1. Login

To Login go to:

<https://www.3dprinteros.com>

In the upper right hand corner select **Sign In**

Once it directs you to a new page (see right), select **SSO**

In the drop down menu select **University of Tennessee** and it will prompt you to enter your credentials

Your username and password will be the same as your **UTK NetID**

2. Add Printers

The first time you log on you will need to add the UTK Printers

On the top dashboard select **Printers**

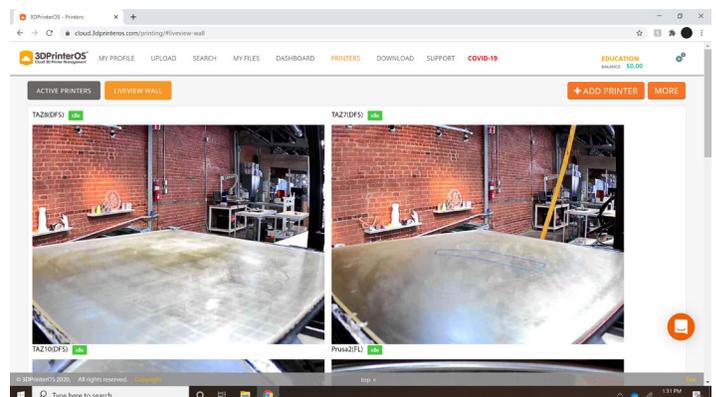
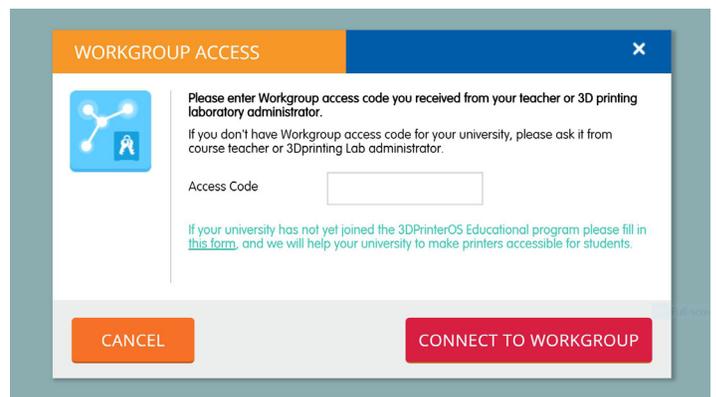
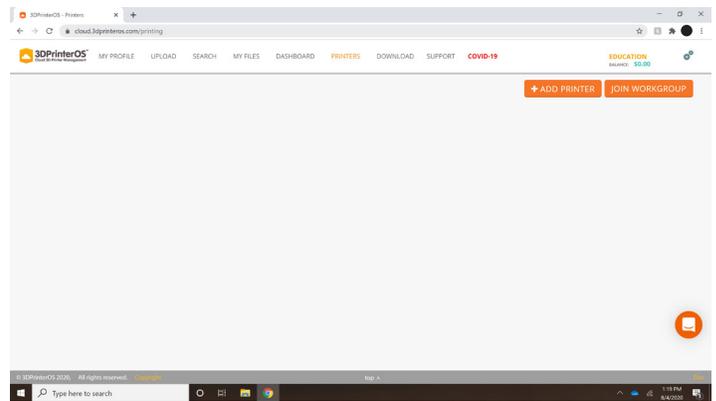
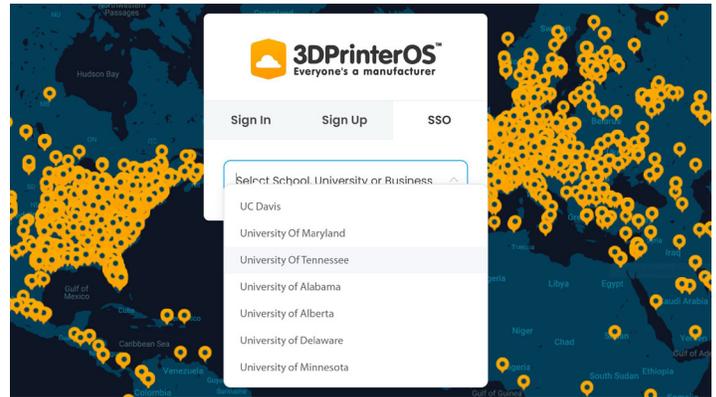
Once it directs you to a new page (see right), select **Join Workgroup**

You will receive the access code in an email

Once this is complete you will see a list of all of the available printers

You will only have to do this one time

To see the current status of the printers you can select **Liveview Wall** (see right)



3. Upload Files

To begin a print select **Upload** from the dashboard

This prompts you to choose your file (see right)

You can do this by browsing your computer files or simply dragging the file into the appropriate area

Once you have chosen your file select **Save and go to My Files**

This will take a new page (see right) where your file will be listed

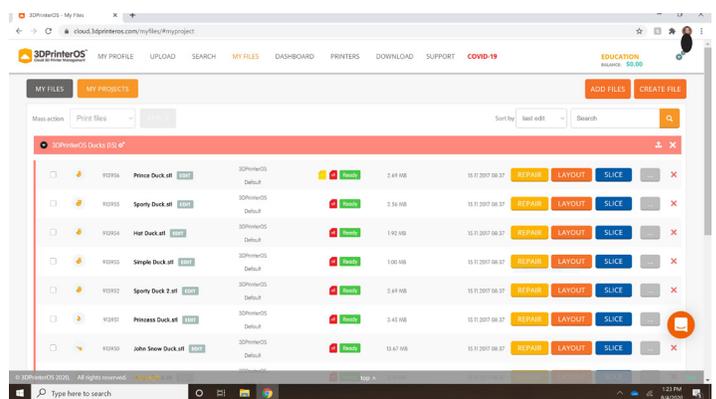
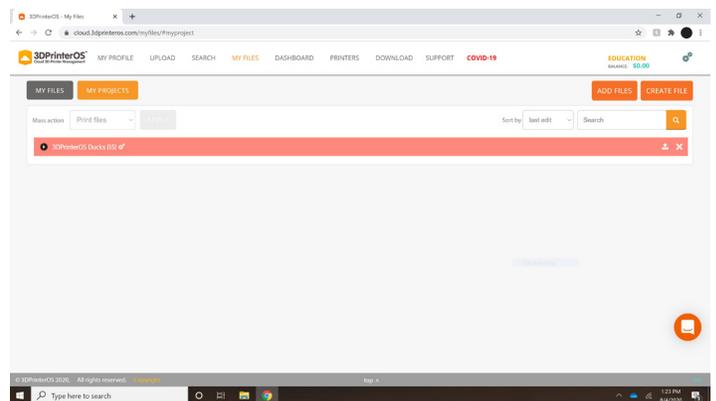
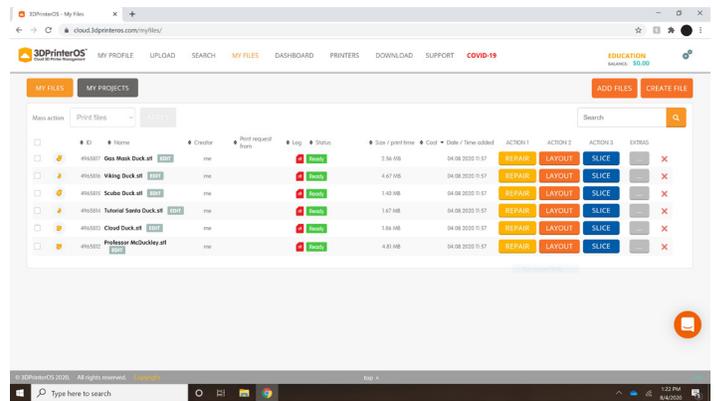
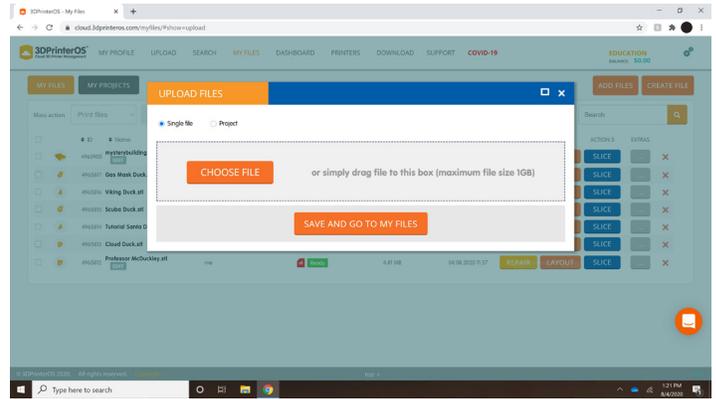
You can also view and organize your files by selecting **My Projects** at the top right which will organize your files by project and you can see all iterations in the drop down menu

Once you are ready to prepare your file select **Layout** to the right of the desired file

*If you run into errors or the model does not look correct when you select **Layout** you can attempt to select **Repair**

Repair is best used if you have an open mesh or see other issues with your model

Repair is not a reliable function and does not always work but it is way to attempt to correct any issues



4. Layout

Selecting **Layout** prompts the **STL Editor** to open

Here you will have the options to edit your file

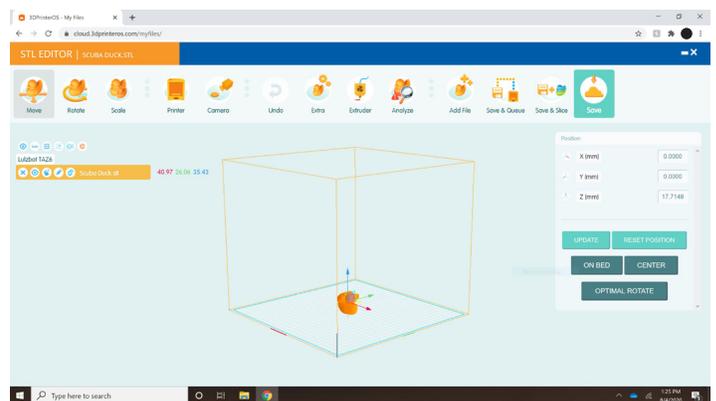
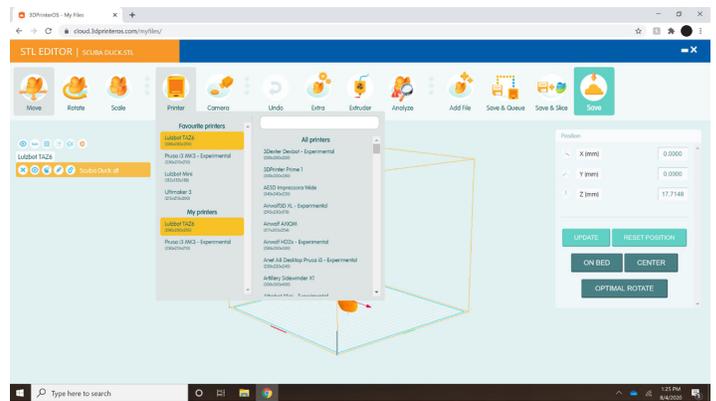
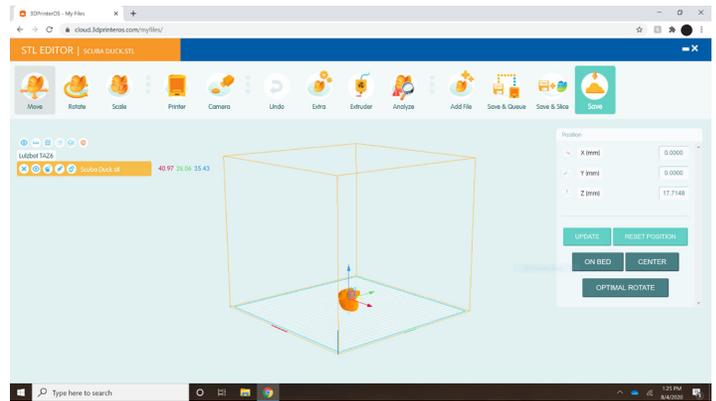
You can **Move, Rotate, or Scale** your model by selecting that option and manipulating the arrows or manually entering your preferences in the corresponding fields on the right of the menu

You will need to choose which printer you are intending to use

Select **Printer** and only choose one of the printers listed on the left hand side under **My Printers**

This allows the program to ensure that your model will fit on the bed of the printer you are intending to use

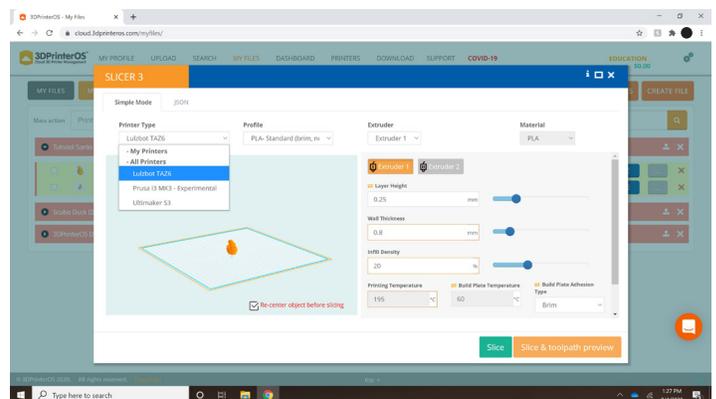
Once you have edited your file and chosen the desired printer select **Save & Slice**



5. Slicing

Selecting **Save & Slice** prompts the **Slicer 3** to open

Here you will select the Printer Type you are intending to use

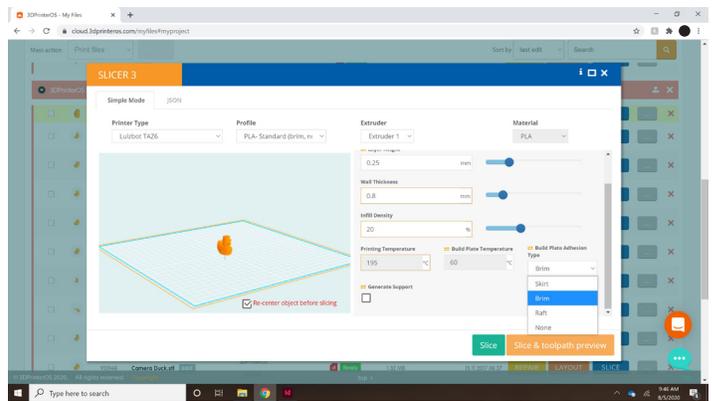
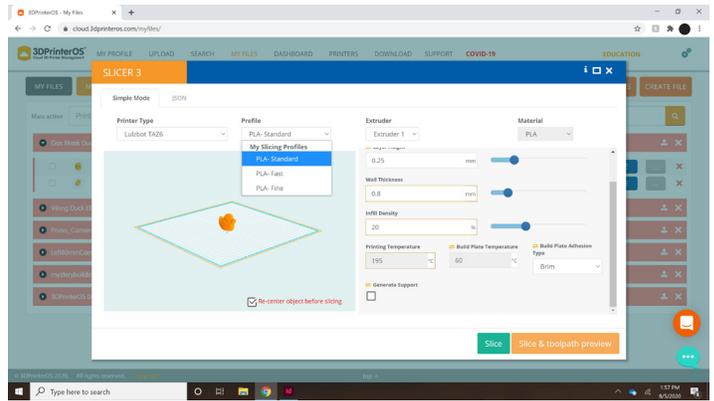


Under the **Profile** drop down select an option for your desired print layer thickness

To the right of your model you can edit the **Layer Height, Wall Thickness, and/or Infill Density** by using the corresponding sliders or manually entering the data

You can also add **Supports** or choose your **Build Plate Adhesion Type** on this menu

Once you have your desired settings select **Slice & Toolpath Preview**

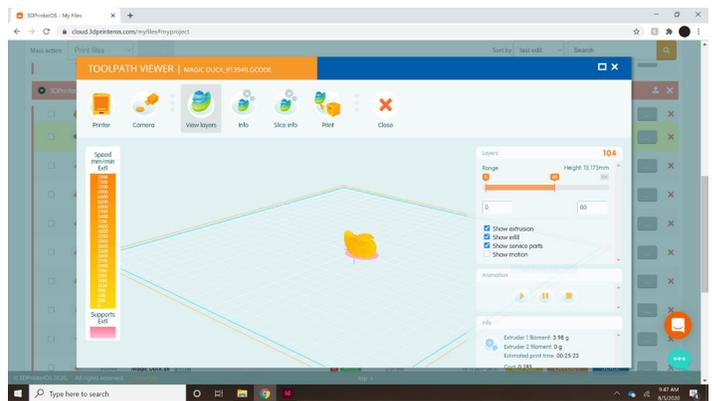


6. Slice + Toolpath Preview

Selecting **Slice & Toolpath Preview** prompts the **Toolpath Viewer** to open

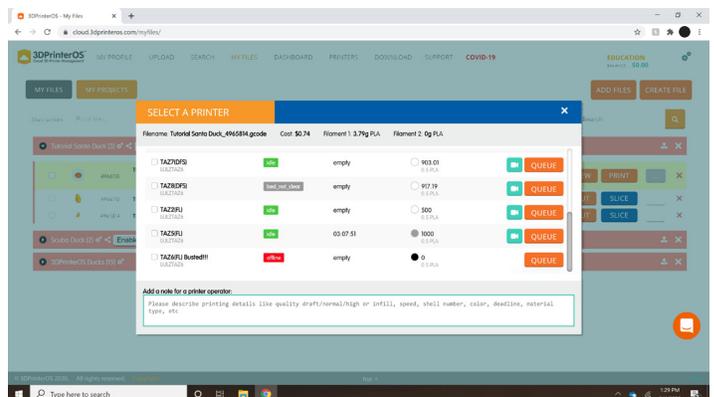
On this page you are able to see your print as the layers it will be printed, you can see specific areas of your model by using the orange slider on the right

If you are happy with how it looks, select **Print** at the top right



Selecting **Print** will prompt you to **Select A Printer**

Select a printer based on the printer with the desired filament color and least amount of time under **Released After** (the third column) and select **Queue**



7. Print

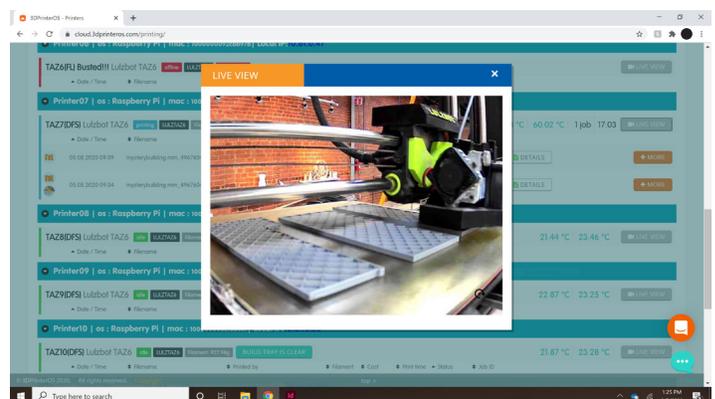
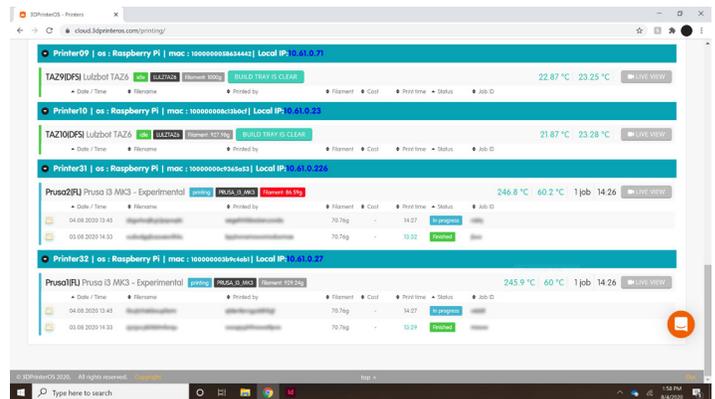
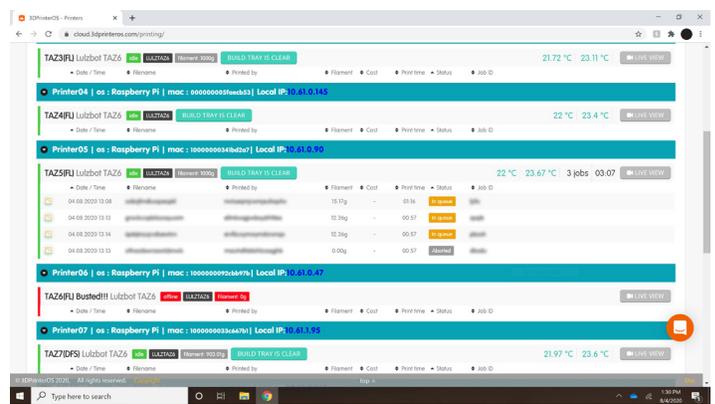
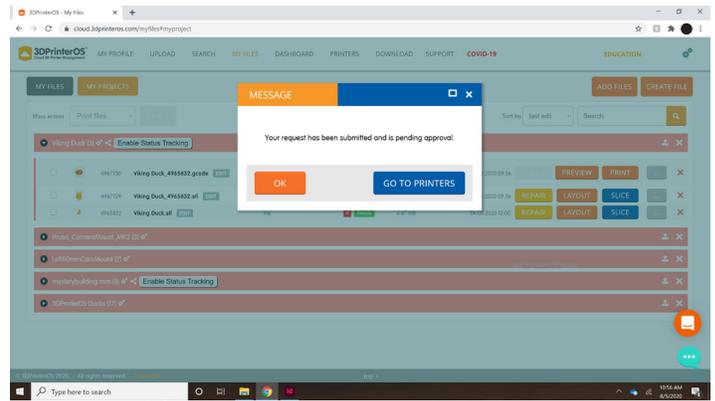
Selecting **Queue** prompts a **Message** that states “Your request has been submitted and is pending approval”

You can view the status of your print by selecting **Printers** on the dashboard

Under the printer you selected you will see the queue of prints, the status of the prints (**In queue, In Progress, or Finished**) and estimated **Print Time** for each

Once you are next in the Queue and your print begins you will receive an email stating that **Your Object is in the Queue to be Printed!**

If your print is in progress and/or you would like to see what is currently printing select **Liveview**



8. Troubleshooting

If you see in the **Liveview** that your print is failing you can cancel your print by selecting **Cancel** to the right of your file name

This will prompt you to **Confirm Job Cancel** and show you a **Liveview** of your print

Selecting **Cancel Job** will prompt you to provide **Job Cancel Feedback** with a list of frequent errors

*If an employee sees a print failing they will get the same **Job Cancel Feedback** to provide the student with the reason why the print was canceled

If there are no issues with your print, you will receive an email that **Your Object Has Been Printed**

You will receive a separate email with a timelapse video of the print

There will be contactless pickup when your print is finished and you are ready to pick it up

