



[Home](#) » [Tutorials](#) » [Setup](#) » [Vivado Setup](#)

Vivado Setup

3 min · Justin Rajewski | [Suggest Changes](#)

► [Table of Contents](#)

The first step to setting up your environment is to install Vivado. Vivado is a program provided by Xilinx (the manufacture of the FPGA on the Au) that is used to build your projects. It holds all the secret sauce that converts your text into an FPGA configuration file (bin file).

Head over to Xilinx's website and download the [Vivado here](#). Avoid version 2020.3.

You want the **WebPACK** version for the Au. This is their free tier.

I recommend downloading the **Web Installer** as it will save you time. During installation you get to select what gets installed saving space as well.

You will need to create an account with Xilinx in order to download the software. This is required by the U.S. government since the software falls under some export regulations.

You will also need this account during install for the web installer to be able to download the various components.

Launching the Installer



If you are running Windows, simply double click the .exe file that you downloaded.

If you are on Linux, you may need to add execution privileges to the .bin file. You can do that with the following command.

```
chmod +x Xilinx_Vivado_File.bin
```

You will need to change the name of the .bin file to match the one you downloaded.

You can then run it. You don't need root permissions if you are installing it somewhere you already have write permissions. I usually install mine to */opt/Xilinx* which I have setup to be owned by me.

Installing

The installer itself is pretty straight forward.

First, you will have to login to your account.



Vivado 2018.3 Installer - Select Install Type

Select Install Type

Please select install type and provide your Xilinx.com user ID and password for authentication.

User Authentication

Please provide your Xilinx user account credentials to download the required files.
If you don't have an account, [please create one](#). If you forgot your password, you can [reset it here](#).

User ID:

Password:

☒ Download and Install Now

Select your desired device and tool installation options and the installer will download and install just what is required. Downloaded installation files will be saved for future use. NOTE: Future installs using these downloaded files will be restricted to the options selected during this install. For access to all options later, choose "Download Full Image".

☐ Download Full Image (Install Separately)

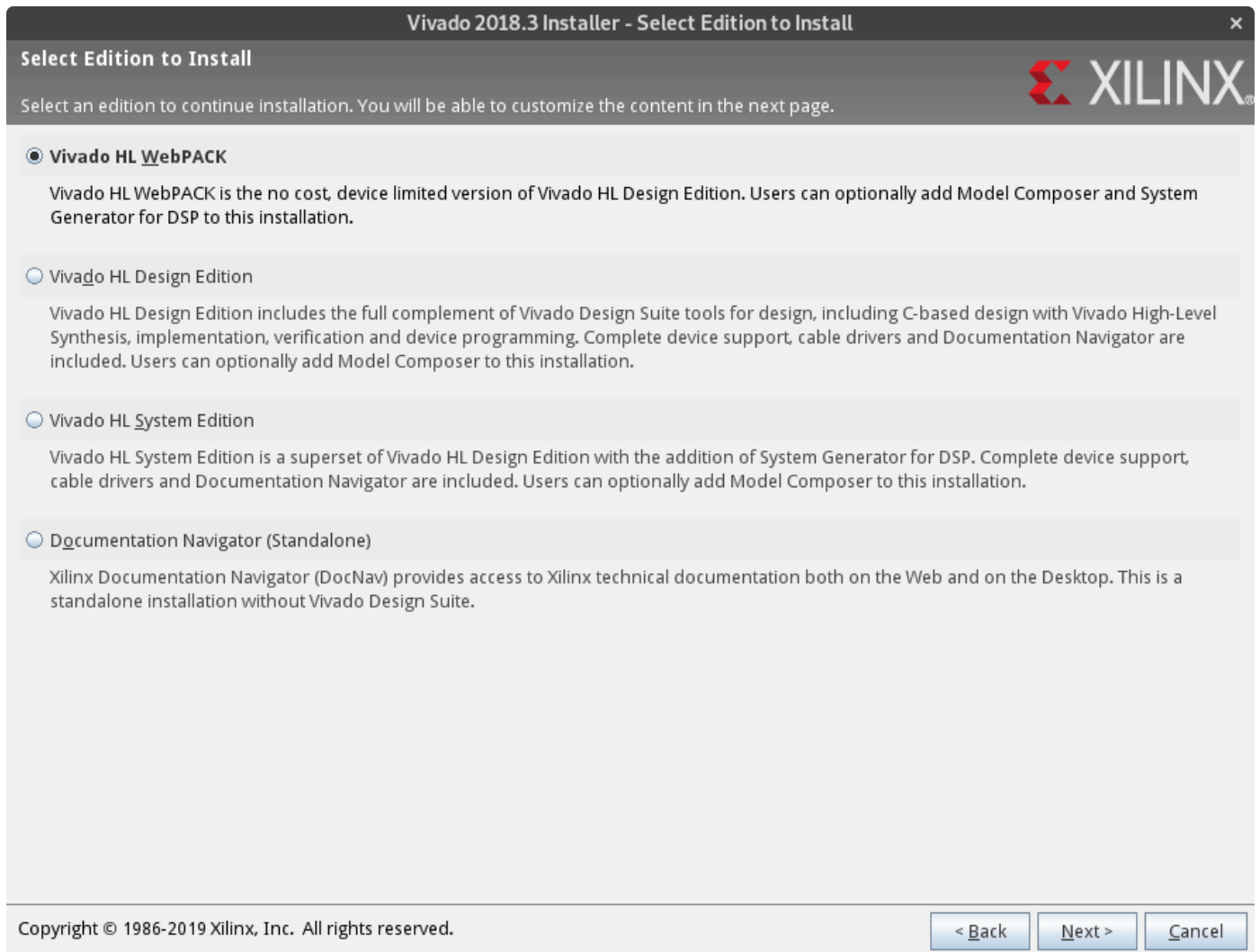
The installer will download an image containing all devices and tool options for later installation. Use this option if you wish to install a full image on a network drive or allow different users maximum flexibility when installing.

Copyright © 1986-2019 Xilinx, Inc. All rights reserved.

< Back Next > Cancel

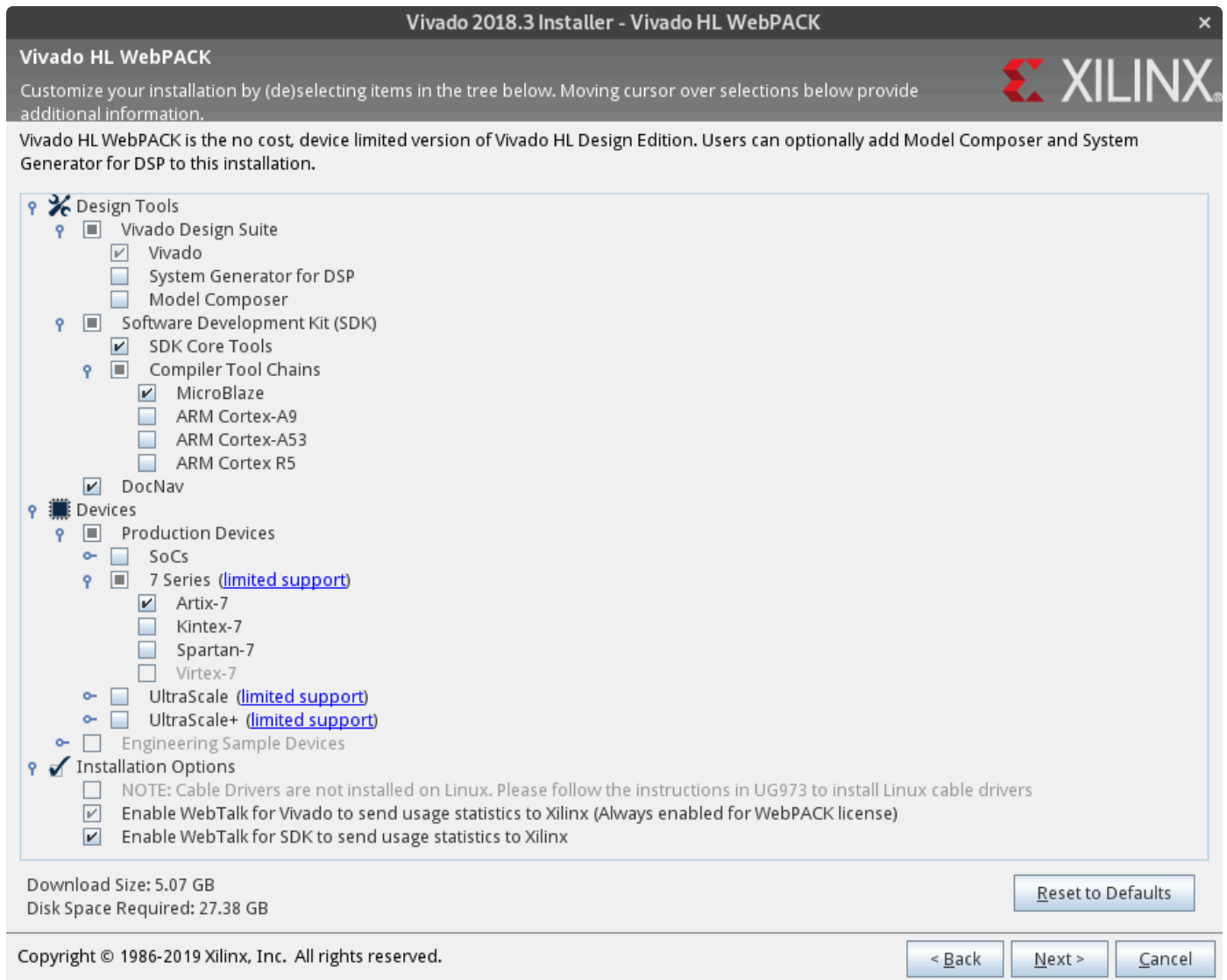
You'll then have to accept some terms and conditions. The page after that asks what edition you would like to install. If you are only using this for the Au, select **WebPACK**. This is the only free version. For more info on the other versions you can go [here](#).





The next page allows you to choose what you install. If you are only using Vivado for the Au you can make yours match the screenshot below.

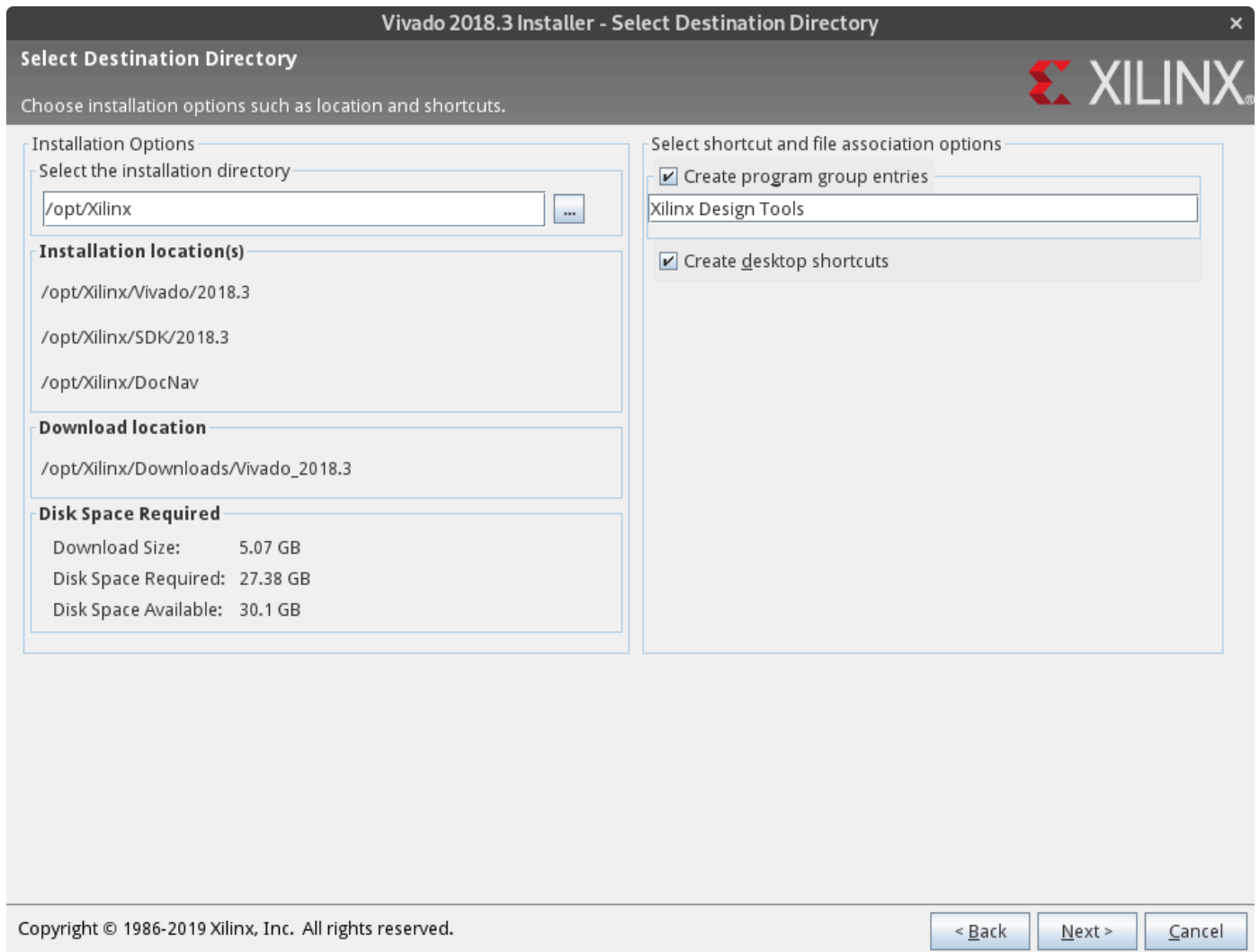




Note that you can deselect the **Software Development Kit (SDK)** option completely if you want. This is used to develop softcores (processors inside the FPGA fabric).

On the next page, select where you want to install it.





Now wack that **Install** button and let it do its thing.

NEXT »

iCEcube2 Setup



© 2025 Alchitry

