

Installation Guide

Advanced Embedded Logic Design

Download

It can be downloaded from Xilinx website after creating a login. Vivado 2019.1 can be found in the Vivado Archive tab.

Download Vivado Design Suite - HLx Editions - 2019.1 Full Product Installation.

<https://www.xilinx.com/support/download/index.html/content/xilinx/en/downloadNav/vivado-design-tools/archive.html>

Installation

Follow any of the two links below with some common sense wherever required. The installation should be straight forward.

1. Windows users: [Installation](#) guide
2. Ubuntu users: <https://www.youtube.com/watch?v=1uJzjvgTQUk>

Note: For Ubuntu users, instead of selecting “HL Design Edition”, you have to choose “Vivado HL System Edition” at time 8:14 in the video. Also, for licensing follow the steps given below (Skip the video from 10:08 to 13:31).

Note: Select the Vivado System Edition and select all the devices (specially Artix-7 and Zynq). Although the devices required can be added later too.

To load the licence, do not use the licence manager that prompts at the end of the installation but open Vivado and use the licence manager option from the Help menu.

Licensing

Run the Vivado IDE in Administrative mode on Windows OS (as certain features of the tool cannot be accessed otherwise).

When you run Vivado, go to Help > Manage License. The institute's floating server licenses can be accessed by setting the variable XILINXD_LICENSE_FILE=2100@192.168.1.70. Refer the below screen shots.

Make sure you are on institute network before running the license manager. If you are not on campus, please use VPN to connect to institute network before running license manager.

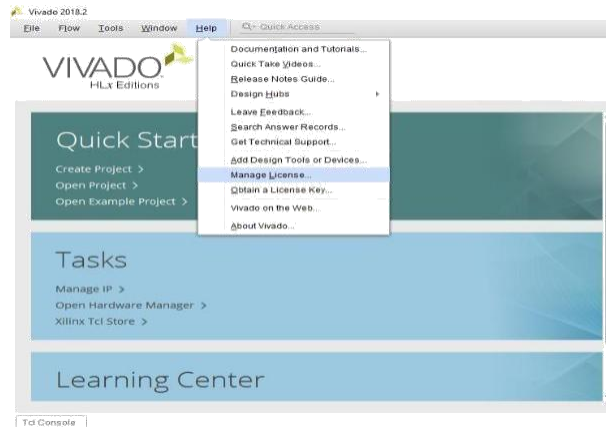


Figure 1:

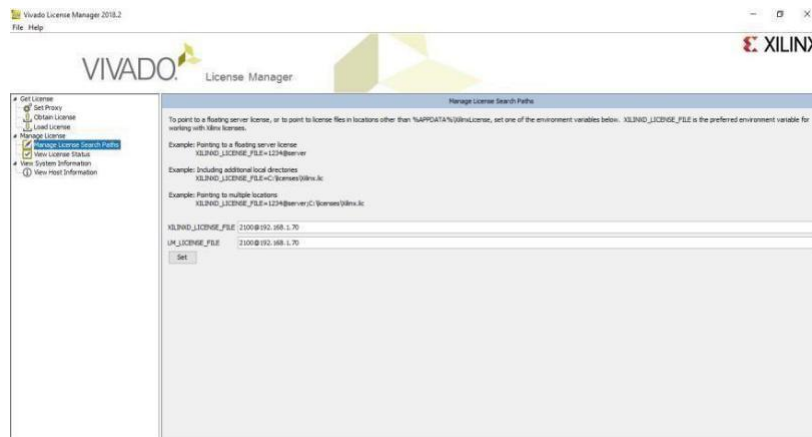


Figure 2:

Note: We will be using Digilent Zedboard and it should be added separately after Vivado installation. Do not use Avnet Zedboard.

To Add Digilent ZedBoard:

Follow the instructions given in the below link to add ZedBoard to your board repository:
<https://digilent.com/reference/software/vivado/board-files?redirect=2>

Good to go

Congrats you have completed the installation. Try to explore the tool by yourself or maybe follow some very basic online tutorial on how to use Vivado. Following resources will help you getting started:

1. [Introduction to the Vivado Design Suite Interface and Creating a New Project](#)
2. [Vivado Design Suite User Guide: Using the Vivado IDE](#)