

# How to Install Vivado on Linux

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<https://www.xilinx.com/support/download.html>

위의 링크로 이동한다.

여기서 All OS Installer 를 선택하면  
로그인 하라는 화면이 나타난다.

아이디가 있다면 로그인 하고 없다면 신규 가입한다.

## Vivado Design Suite - HLx Editions - 2017.4 Full Product Installation

### Important

We strongly recommend to use the web installers as it reduces download time and saves significant disk space.

Please see [Installer Information](#) for details.

Download Includes

Vivado Design Suite HLx Editions (All Editions)

Download Type

Full Product Installation

Last Updated

Dec 20, 2017

Answers

[2017.x - Vivado Known Issues](#)

Documentation

[2017.4 - Release Notes](#)

Enablement

[License Solution Center](#)



[Vivado HLx 2017.4: WebPACK and Editions - Windows Self Extracting Web Installer \(EXE - 51.3 MB\)](#)

MD5 SUM Value:  
39677d35779915411487e5d89fe27ee8



[Vivado HLx 2017.4: WebPACK and Editions - Linux Self Extracting Web Installer \(BIN - 100.7 MB\)](#)

MD5 SUM Value:  
915928e0f33af22f1370acc6ac32c2b5



[Vivado HLx 2017.4: All OS Installer Single-File Download \(TAR/GZIP - 16.17 GB\)](#)

MD5 SUM Value:  
5a1bb63f893f0039e34c9f412dd063a9

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## Download Center - Name and Address Verification

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- Addresses with Post Office Boxes and names/addresses with Non-Roman Characters with accents such as grave, tilde or colon **are not supported** by US export compliance systems.

First Name \*

Sanghoon

Last Name \*

Lee

Corporate E-mail \*

gcccompil3r@gmail.com

Company Name \*

Bit Camp

Address 1 \*

175 Jagok-ro Gangnam-gu Seoul Korea

Address 2

City \*

Seoul

State \*

Seoul

프로그램 다운로드를 위해  
간단하게 신상 명세를 적게 된다.

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Address 2

City \*

State \*

Please use 2-letter code for your [US state](#) or [Canadian province](#).

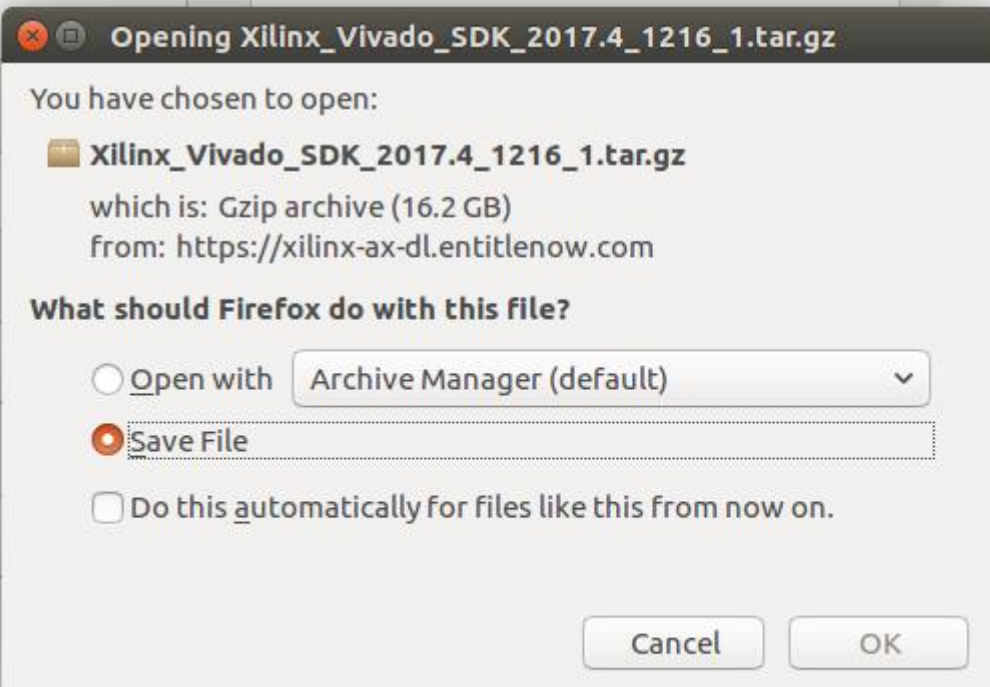
Country \*

Zip Code \*

Phone

Job Function \*

Primary Market \*

[Next](#)

프로그램 다운로드가 완료되면 아래와 같이 명령어를 입력하도록 한다.

```
sdr@sdr-Samsung-DeskTop-System: ~/xilinx_vivado
sdr@sdr-Samsung-DeskTop-System:~$ mkdir xilinx_vivado
sdr@sdr-Samsung-DeskTop-System:~$ cd xilinx_vivado/
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado$ mv ~/Downloads/Xilinx_Vivado_SDK_2017.4_1216_1.tar.gz ./
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado$ ls
Xilinx_Vivado_SDK_2017.4_1216_1.tar.gz
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado$ █
```

그리고 압축 프로그램을 풀도록 한다.

```
sdr@sdr-Samsung-DeskTop-System: ~/xilinx_vivado
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado$ tar zxvf Xilinx_Vivado_SDK_2017.4_1216_1.tar.gz █
```

sdr@sdr-Samsung-DeskTop-System: ~/xilinx\_vivado

Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/ucrtbase.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-crt-utility-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/xvcredist.exe  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/vcruntime140.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-core-console-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-core-processenvironment-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-core-profile-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/vccorlib140.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-crt-environment-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-core-errorhandling-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-core-memory-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/api-ms-win-crt-runtime-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/tps/win64/vcredist\_x64.exe  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/api-ms-win-core-processenvironment-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/api-ms-win-core-profile-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/vccorlib140.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/xsetup.exe  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/api-ms-win-crt-environment-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/api-ms-win-core-errorhandling-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/api-ms-win-core-memory-l1-1-0.dll  
Xilinx\_Vivado\_SDK\_2017.4\_1216\_1/api-ms-win-crt-runtime-l1-1-0.dll

sdr@sdr-Samsung-DeskTop-System: ~/xilinx\_vivado\$

압축 해제후 디렉토리에 들어가본다.

```
sdr@sdr-Samsung-DeskTop-System: ~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado$ ls
Xilinx_Vivado_SDK_2017.4_1216_1  Xilinx_Vivado_SDK_2017.4_1216_1.tar.gz
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado$ cd Xilinx_Vivado_SDK_2017.4_1216_1/
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1$ ls
api-ms-win-core-console-l1-1-0.dll      api-ms-win-crt-environment-l1-1-0.dll
api-ms-win-core-datetime-l1-1-0.dll      api-ms-win-crt-file-system-l1-1-0.dll
api-ms-win-core-debug-l1-1-0.dll          api-ms-win-crt-heap-l1-1-0.dll
api-ms-win-core-errorhandling-l1-1-0.dll  api-ms-win-crt-locale-l1-1-0.dll
api-ms-win-core-file-l1-1-0.dll           api-ms-win-crt-math-l1-1-0.dll
api-ms-win-core-file-l1-2-0.dll           api-ms-win-crt-multibyte-l1-1-0.dll
api-ms-win-core-file-l2-1-0.dll           api-ms-win-crt-private-l1-1-0.dll
api-ms-win-core-handle-l1-1-0.dll         api-ms-win-crt-process-l1-1-0.dll
api-ms-win-core-heap-l1-1-0.dll           api-ms-win-crt-runtime-l1-1-0.dll
api-ms-win-core-interlocked-l1-1-0.dll    api-ms-win-crt-stdio-l1-1-0.dll
api-ms-win-core-libraryloader-l1-1-0.dll  api-ms-win-crt-string-l1-1-0.dll
api-ms-win-core-localization-l1-2-0.dll   api-ms-win-crt-time-l1-1-0.dll
api-ms-win-core-memory-l1-1-0.dll         api-ms-win-crt-utility-l1-1-0.dll
api-ms-win-core-namedpipe-l1-1-0.dll      bin
api-ms-win-core-processenvironment-l1-1-0.dll  concrt140.dll
api-ms-win-core-processthreads-l1-1-0.dll  data
api-ms-win-core-processthreads-l1-1-1.dll  lib
api-ms-win-core-profile-l1-1-0.dll         msvcrt140.dll
api-ms-win-core-rtlsupport-l1-1-0.dll      payload
api-ms-win-core-string-l1-1-0.dll          scripts
api-ms-win-core-synch-l1-1-0.dll           tps
api-ms-win-core-synch-l1-2-0.dll           ucrtbase.dll
api-ms-win-core-sysinfo-l1-1-0.dll         vccorlib140.dll
api-ms-win-core-timezone-l1-1-0.dll        vcruntime140.dll
api-ms-win-core-util-l1-1-0.dll            xsetup
api-ms-win-crt-conio-l1-1-0.dll            xsetup.exe
api-ms-win-crt-convert-l1-1-0.dll
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1$
```



아래와 같이 명령어를 입력하고 No 를 선택한다..

```
sdr@sdr-Samsung-DeskTop-System: ~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1  
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1$ sudo  
dpkg-reconfigure dash
```

```
sdr@sdr-Samsung-DeskTop-System: ~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1  
Package configuration
```

#### Configuring dash

The system shell is the default command interpreter for shell scripts.

Using dash as the system shell will improve the system's overall performance.  
It does not alter the shell presented to interactive users.

Use dash as the default system shell (/bin/sh)?

<Yes>

<No>

이제 설치를 하기 위해서 아래와 같은 명령어를 입력한다.  
명령어 입력 이후 비밀번호를 입력하라고 하는데 비밀 번호를 입력한다.  
(비밀번호가 입력되는 티가 안나니까 그냥 입력 하면 된다 - 컴퓨터 멈춘거 아님)

```
sdr@sdr-Samsung-DeskTop-System: ~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1  
sdr@sdr-Samsung-DeskTop-System:~/xilinx_vivado/Xilinx_Vivado_SDK_2017.4_1216_1$ sudo ./xsetup
```

아래와 같은 로고가 나타날 것이다.



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ALL PROGRAMMABLE.

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2017.4



## Welcome

We are glad you've chosen Xilinx as your platform development partner. This program can install the Vivado Design Environment, Software Development Kit and Documentation Navigator.

Supported operating systems for Vivado 2017.4 are:

- Windows 7.1: 64-bit
- Windows 10.0 Creators Update: 64-bit
- Red Hat Enterprise Linux 6.6-6.9: 64-bit
- Red Hat Enterprise Linux 7.2-7.3: 64-bit
- CentOS Linux 6.6-6.9: 64-bit
- CentOS Linux 7.2-7.3: 64-bit
- SUSE Enterprise Linux 11.4: 64-bit
- SUSE Enterprise Linux 12.2: 64-bit
- Ubuntu Linux 16.04.2 LTS: 64-bit - Additional library installation required

Note: This release requires upgrading your license server tools to the Flex 11.14.1 versions. Please confirm with your license admin that the correct version of the license server tools are installed and available, before running the tools.

Note: 32-bit machine support is now only available through HW Server standalone product installers

Note: This installation program will not install cable drivers on Linux. This item will need to be installed separately, with administrative privileges.

To reduce installation time, we recommend that you disable any anti-virus software before continuing.



## Accept License Agreements



Please read the following terms and conditions and indicate that you agree by checking the I Agree checkboxes.

**Xilinx Inc. End User License Agreement**

By checking "I AGREE" below, or OTHERWISE ACCESSING, DOWNLOADING, INSTALLING or USING THE SOFTWARE, YOU AGREE on behalf of licensee to be bound by the agreement, which can be viewed by [clicking here](#).

☒ I Agree**WebTalk Terms And Conditions**

By checking "I AGREE" below, I also confirm that I have read [Section 13 of the terms and conditions](#) above concerning WebTalk and have been afforded the opportunity to read the WebTalk FAQ posted at <https://www.xilinx.com/products/design-tools/webtalk.html>. I understand that I am able to disable WebTalk later if certain criteria described in Section 13(c) apply. If they don't apply, I can disable WebTalk by uninstalling the Software or using the Software on a machine not connected to the internet. If I fail to satisfy the applicable criteria or if I fail to take the applicable steps to prevent such transmission of information, I agree to allow Xilinx to collect the information described in Section 13(a) for the purposes described in Section 13(b).

☒ I Agree**Third Party Software End User License Agreement**

By checking "I AGREE" below, or OTHERWISE ACCESSING, DOWNLOADING, INSTALLING or USING THE SOFTWARE, YOU AGREE on behalf of licensee to be bound by the agreement, which can be viewed by [clicking here](#).

☒ I Agree

## Select Edition to Install



Select an edition to continue installation. You will be able to customize the content in the next page.

☐ Vivado HL WebPACK

Vivado HL WebPACK is the no cost, device limited version of Vivado HL Design Edition. Users can optionally add Model Composer and System Generator for DSP to this installation.

**고가 장비를 구해서 라이선스를 가지고 있지 않는 이상  
Vivado HL WebPACK 을 선택하도록 한다.**

☒ **Vivado HL Design Edition**

Vivado HL Design Edition includes the full complement of Vivado Design Suite tools for design, including C-based design with Vivado High-Level Synthesis, implementation, verification and device programming. Complete device support, cable drivers and Documentation Navigator are included. Users can optionally add Model Composer to this installation.

☐ Vivado HL System Edition

Vivado HL System Edition is a superset of Vivado HL Design Edition with the addition of System Generator for DSP. Complete device support, cable drivers and Documentation Navigator are included. Users can optionally add Model Composer to this installation.

☐ Documentation Navigator (Standalone)

Xilinx Documentation Navigator (DocNav) provides access to Xilinx technical documentation both on the Web and on the Desktop. This is a standalone installation without Vivado Design Suite.

## Vivado HL Design Edition



Customize your installation by (de)selecting items in the tree below. Moving cursor over selections below provide additional information.

Vivado HL Design Edition includes the full complement of Vivado Design Suite tools for design, including C-based design with Vivado High-Level Synthesis, implementation, verification and device programming. Complete device support, cable drivers and Documentation Navigator are included. Users can optionally add Model Composer to this installation.

**Design Tools**

- ☐ Vivado Design Suite
- ☒ Software Development Kit (SDK)
- ☒ DocNav

**Devices**

- ☒ **Production Devices**
  - ☒ SoCs
  - ☒ 7 Series
  - ☒ UltraScale
  - ☒ UltraScale+
- ☐ **Engineering Sample Devices**
  - ☐ Kintex UltraScale+ ES
  - ☐ Virtex UltraScale+ ES
  - ☐ Virtex UltraScale+ HBM ES
  - ☒ Zynq UltraScale+ MPSoC ES
  - ☒ Zynq UltraScale+ RFSoc ES

☒ **Installation Options**

- ☐ NOTE: Cable Drivers are not installed on Linux. Please follow the instructions in UG973 to install Linux cable drivers
- ☒ Acquire or Manage a License Key
- ☒ Enable WebTalk for Vivado to send usage statistics to Xilinx (Always enabled for WebPACK license)
- ☒ Enable WebTalk for SDK to send usage statistics to Xilinx

디폴트 설정하고 Next 해도 무방하다.

Download Size: NA  
Disk Space Required: 41.2 GB

Reset to Defaults

## Select Destination Directory



Choose installation options such as location and shortcuts.

### Installation Options

Select the installation directory

/opt/Xilinx



### Installation location(s)

/opt/Xilinx/Vivado/2017.4

/opt/Xilinx/Model\_Composer/2017.4

/opt/Xilinx/SDK/2017.4

/opt/Xilinx/DocNav

### Disk Space Required

Download Size: NA

Disk Space Required: 41.2 GB

Disk Space Available: 827.69 GB

### Select shortcut and file association options

☒ Create program group entries

Xilinx Design Tools

☒ Create desktop shortcuts



## Installation Summary

### Edition: Vivado HL Design Edition

#### Devices

- Production Devices (SoCs, 7 Series, UltraScale, UltraScale+)
- Engineering Sample Devices (Zynq UltraScale+ MPSoC ES, Zynq UltraScale+ RFSoc ES)

#### Design Tools

- Vivado Design Suite (Vivado, Model Composer)
- Software Development Kit (SDK) (SDK Core Tools, Compiler Tool Chains)
- DocNav

#### Installation Options

- Enable WebTalk for SDK to send usage statistics to Xilinx
- Enable WebTalk for Vivado to send usage statistics to Xilinx (Always enabled for WebPACK license)
- Acquire or Manage a License Key

#### Installation location

- /opt/Xilinx/Vivado/2017.4
- /opt/Xilinx/Model\_Composer/2017.4
- /opt/Xilinx/SDK/2017.4
- /opt/Xilinx/DocNav

#### Disk Space Required

- Download Size: NA
- Disk Space Required: 41.2 GB





## Installation Progress



Installing files, 0% completed.

Final Processing...

시간이 걸린다.  
티 타임을 가지며  
주변 사람들과 수다를 떨어보자 ~

SDx<sup>™</sup>  
Environments



SDx Family of Development Environments  
for Systems and Software Engineers

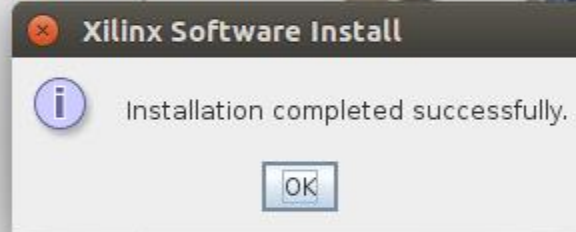
## Installation Progress



✓ It took 16 minutes to install files.

✓ Done Final Processing.

SDx<sup>™</sup>  
Environments



SDx Family of Development Environments  
for Systems and Software Engineers



License Manager



- Get License
  - Set Proxy
  - Obtain License
  - Load License
- Manage License
  - Manage License Search Paths
  - View License Status
- View System Information
  - View Host Information

## Obtain License

Select one of the following options

- ☐ Start Now! 30 Day Trial (No Bitstream, No Support for SDx: SDAccel, SDSoc)
- ☐ Get Vivado or IP Evaluation Licenses
- ☐ Get Free ISE WebPACK, ISE/Vivado IP or PetaLinux Licenses
- ☒ Get My Full or Purchased Certificate-Based License

[Connect Now](#)[Save Link As...](#)

## Description of the above selected option

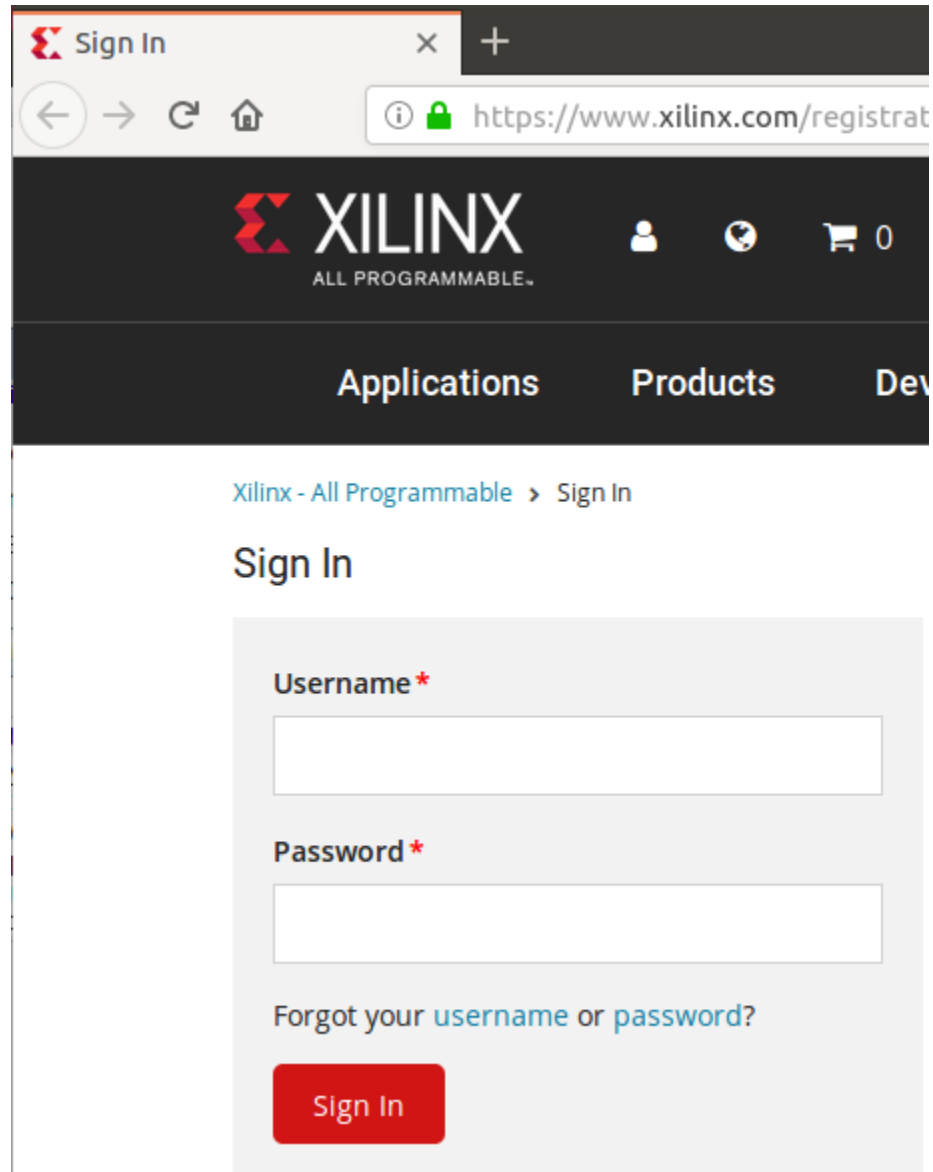
This selection will help you get your full or purchased Certificate-based licenses and start using the Xilinx tools. All purchased IP use Certificate-based licenses as do Xilinx tools, if purchased after April 2016. You will be taken to the Xilinx website where, if you have full or purchased licenses, you will see an account drop-down menu. In the appropriate license account, you can generate a license for all Xilinx software and IP you have purchased. After generation, the license file is sent to your e-mail. Once you have saved this file to your machine, click on the Load License selection to copy your .lic file to a default location.

기존 라이선스를 가지고 있는 사람은 이 옵션을 선택한다.

무료 라이선스를 사용하고자 할 경우엔

Get Free ISE WebPACK, ISE/Vivado IP or PetaLinux Licenses 를 누른다.

이번에도 로그인이 필요하다.



The image shows a web browser window with the Xilinx website. The browser's address bar shows the URL <https://www.xilinx.com/registration>. The Xilinx logo and navigation links are visible at the top. The main content area is titled "Sign In" and contains a login form with fields for "Username\*" and "Password\*", a link for "Forgot your username or password?", and a red "Sign In" button.

Sign In

XILINX  
ALL PROGRAMMABLE.

Applications Products Dev

Xilinx - All Programmable > Sign In

## Sign In

Username\*

Password\*

Forgot your [username](#) or [password](#)?

Sign In

무료 라이선스는 아래와 같이 선택하도록 한다.  
PetaLinux 부분은 다른 부분에서 다루겠다.  
아래쪽의 **Generate** 를 누르면 된다.

Select one of the following options:

- ☐ Start Now! 30 Day Trial (No ISE WebPACK)
- ☐ Get Vivado or IP Evaluation License
- ☒ Get Free ISE WebPACK, ISE WebPACK License
- ☐ Get My Full or Purchased License

[Connect Now](#) [Save License](#)

Description of the above selected options:

Get a free ISE WebPACK, PetaLinux Tools License, and ISE WebPACK License taken to the Xilinx website where you can download the license file to your e-mail. Once you have saved the license file, you can use it to generate a license file to a default location.

Have a Voucher to Redeem? ?

XXXX-XXXXXX-XXXX-XXXXXX

[Redeem Now](#)

Evaluation and No Charge Cores ?

Search the **Evaluation** and **No Charge** cores catalog and add specific cores to table below

[Search Now](#)

## Create a New License File for Account: 2109-150221-EKZE-59418470-LEE

Create a new license file by making your product selections from the table below. Floating and Node-Locked licenses cannot be combined in the same license file. ?

### Certificate Based Licenses

Product	Type	License	Available Seats	Status	Subscription Date
<input type="checkbox"/> SDSoc Environment, 60 Day Evaluation License	Certificate - Evaluation	Node / Floating	1/1	Current	60 days
<input type="checkbox"/> Model Composer : 90-day Evaluation License	Certificate - Evaluation	Node / Floating	1/1	Current	90 days
<input type="checkbox"/> Vivado Design Suite (No ISE): 30-Day Evaluation License	Certificate - Evaluation	Node	1/1	Current	30 days
<input checked="" type="checkbox"/> Vivado Design Suite: HL WebPACK 2015 and Earlier License	Certificate - No Charge	Node	1/1	Current	None
<input checked="" type="checkbox"/> ISE WebPACK License	Certificate - No Charge	Node	1/1	Current	None
<input type="checkbox"/> PetaLinux Tools License	Certificate - Evaluation	Node	1/1	Current	365 days
<input type="checkbox"/> PetaLinux Tools License, Floating License	Certificate - Evaluation	Floating	1/1	Current	365 days
<input type="checkbox"/> Vivado HLS Evaluation License	Certificate - Evaluation	Node	1/1	Current	30 days

## Create New License



Have a Voucher to Redeem?  
XXXX-XXXXXX-XXXX-XXXX

enter voucher code

## Create a New License

Create a new license file  
in the same license file. ?

## Certificate Based License

- ☐ SDSoc Environment, 60 Days
- ☐ Model Composer : 90-day Evaluation
- ☐ Vivado Design Suite (No ISE)
- ☒ Vivado Design Suite: HL WebPACK License
- ☒ ISE WebPACK License
- ☐ PetaLinux Tools License
- ☐ PetaLinux Tools License, Full
- ☐ Vivado HLS Evaluation License

Generate Floating License

What is the difference between

## Generate Node License

Fields marked with an asterisk \* are required.

### 1 PRODUCT SELECTION

Product Selections *	Product	Type	Available Seats	Subscription End Date	Requested Seats	Borrowed Seats
<input checked="" type="checkbox"/>	Vivado Design Suite: ...	No Charge	1/1	None	1	
<input checked="" type="checkbox"/>	ISE WebPACK License	No Charge	1/1	None	1	

### 2 SYSTEM INFORMATION

License	Node
Host ID * ?	Any

### 3 COMMENTS

Comments ?		
------------	--	--

Next

[Cancel](#)

## Generate Node License

### 4 REVIEW LICENSE REQUEST

#### Product Selections

Product	Subscription End Date	Available Seats	Requested Seats	
Vivado Design Suite: HL WebPACK 2015 and Earlier Li...		1/1	1	
ISE WebPACK License		1/1	1	

#### System Information

License	Node
Host ID	ANY

Note: WebTalk is always enabled for WebPACK users. WebTalk ignores user and install preference when a bitstream is generated using the WebPACK license. If a design is using a device contained in WebPACK and a WebPACK license is available, the WebPACK license will always be used. To get additional information on WebTalk, go to [www.xilinx.com/webtalk](http://www.xilinx.com/webtalk).

[Previous](#)[Next](#)[Cancel](#)



## Congratulations

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### License File Details

Node License

Host ID: ANY

### Products

Vivado Design Suite: HL WebPACK 2015 and Earlier License (No Charge): 1 seats

ISE WebPACK License (No Charge): 1 seats



메일로 날아온 라이선스를 저장한다.

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How do I get more help

<http://www.xilinx.com>

Regards,  
Xilinx Customer Service

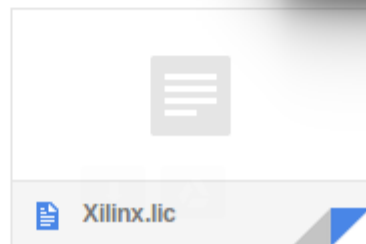
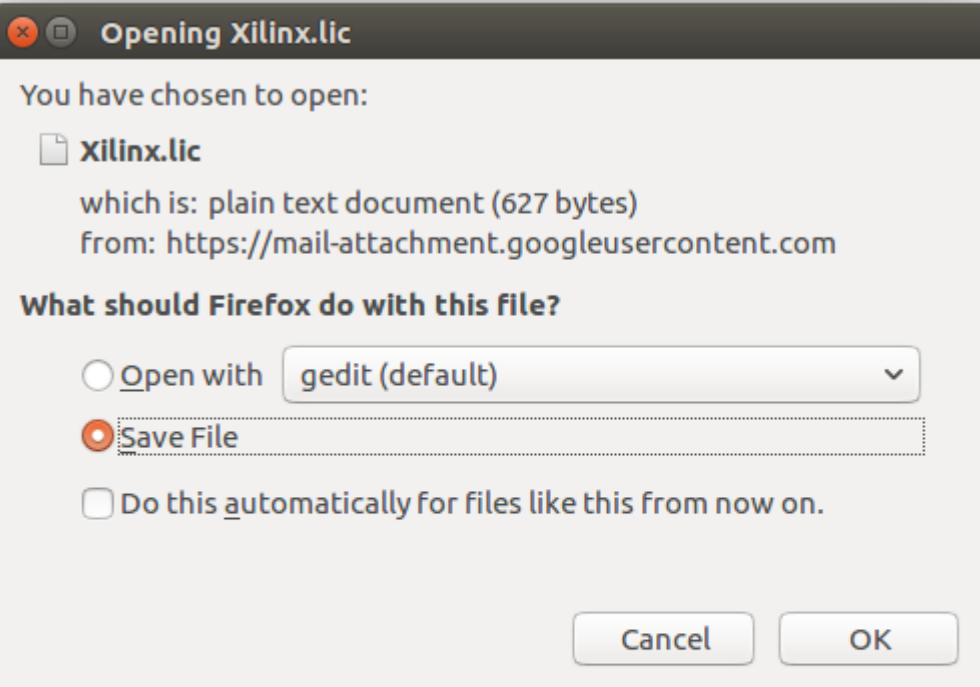
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# VIVADO.

## License Manager



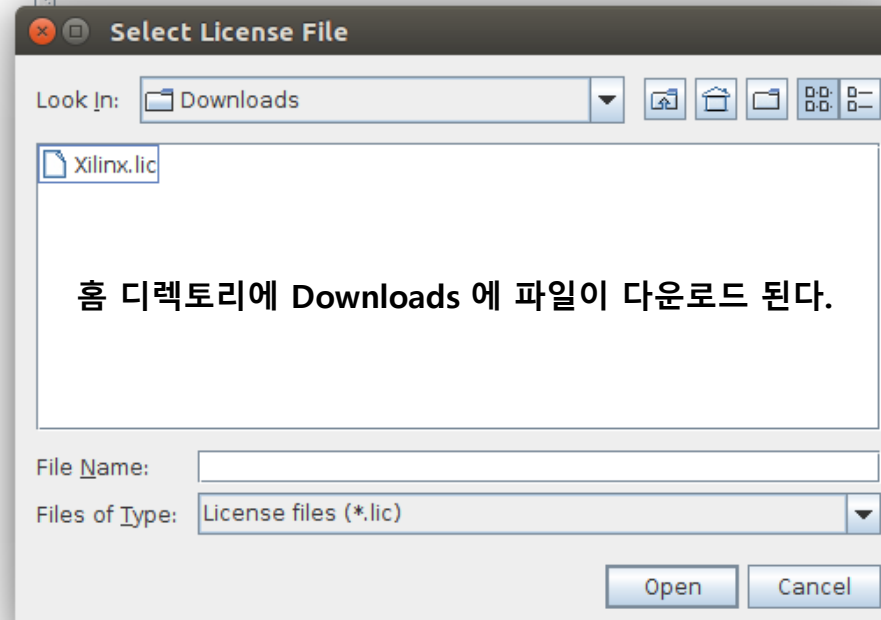
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  - View License Status
- View System Information
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### Load License

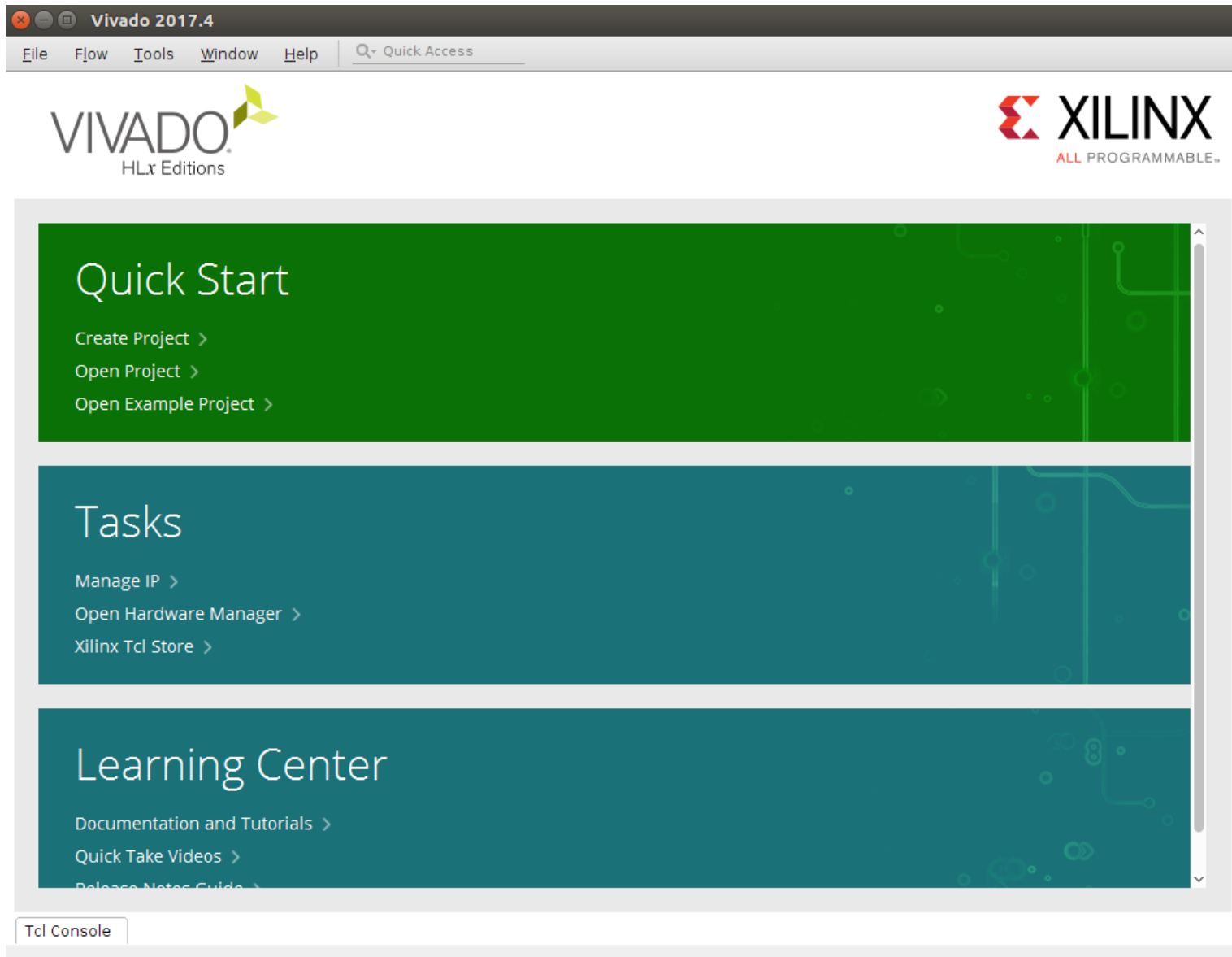
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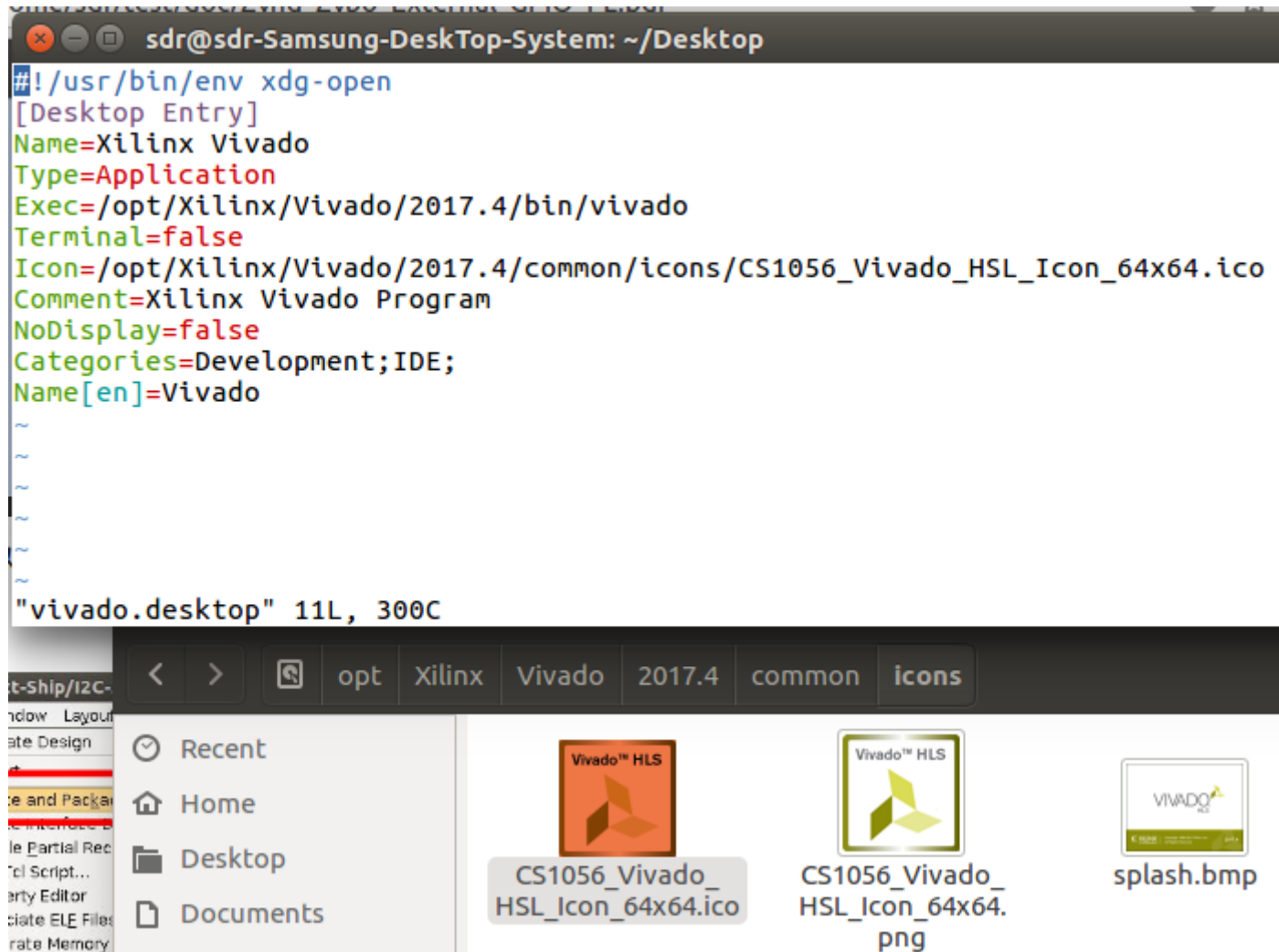
터미널 창에서 `/opt/Xilinx/Vivado/2017.4/bin/vivado` 를 입력하면 아래와 같이 실행되는 것을 볼 수 있다.  
문제는 너무 불편하다는 것이다(경로명도 길고 말이다)  
`bashrc` 에 경로를 등록해도 괜찮은데 바탕 화면에 바로가기 아이콘을 만들어도 좋다.



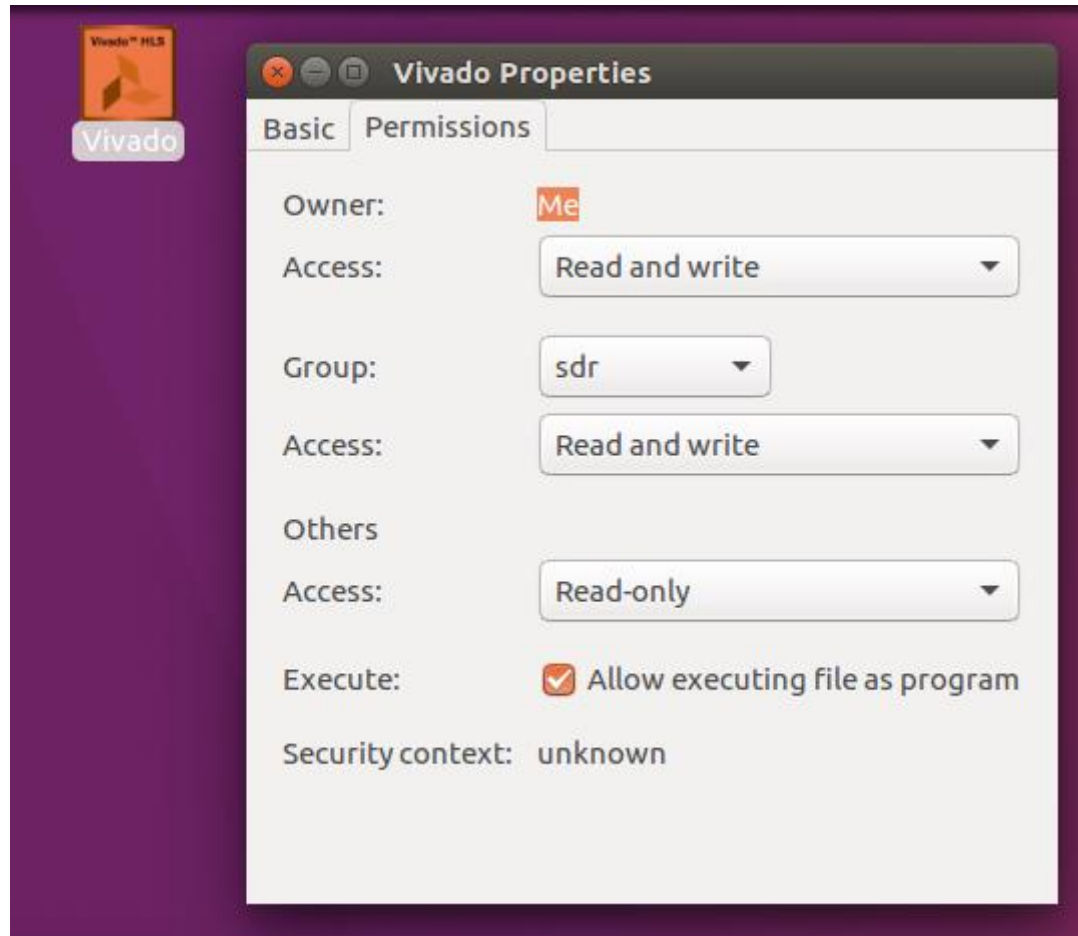
홈 디렉토리에 Desktop 디렉토리가 바탕화면에 해당한다.

```
sdr@sdr-Samsung-DeskTop-System: ~/Desktop
sdr@sdr-Samsung-DeskTop-System:~/Desktop$ cd ~/Desktop/
sdr@sdr-Samsung-DeskTop-System:~/Desktop$ vi vivado.desktop
```

그리고 아래와 같이 기록한다.



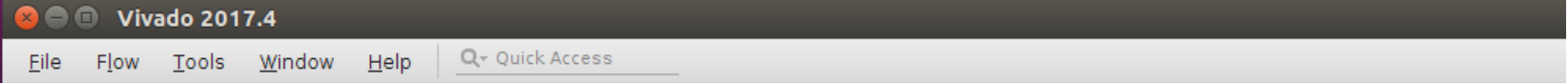
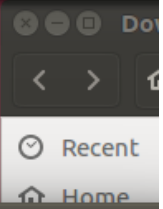
바탕화면에 생성된 아이콘을 우클릭하고 Property(속성)으로 가서 아래와 같이 Execute 부분의 체크 박스에 체크를 해주도록 한다.





Vivado

이와 같이 바탕 화면의 아이콘을 더블클릭하여 실행할 수도 있게 된다.  
이 녀석을 우측 탭으로 '끌당' 하면 탭을 눌러 자동화할 수도 있다.



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