



# INSTALLING EIS 1.5

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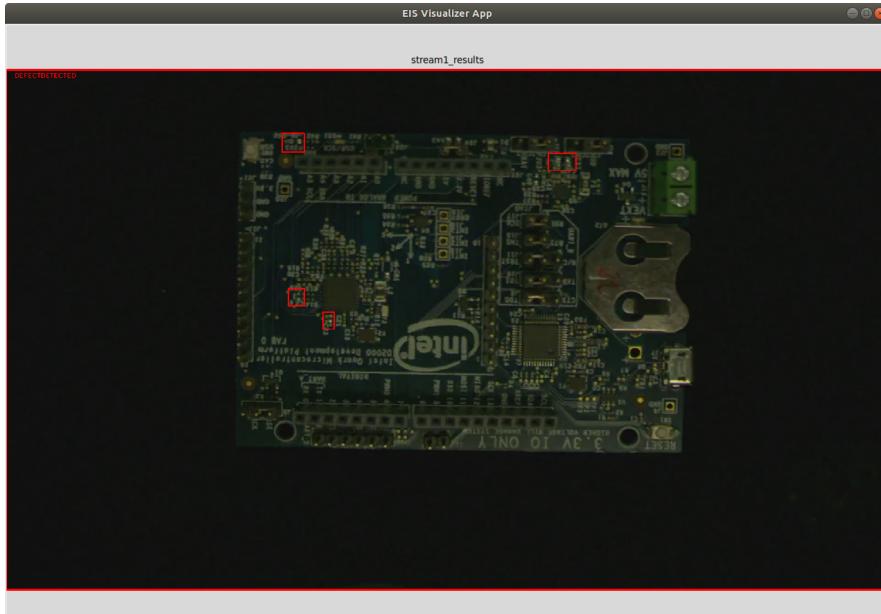
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# Zero-to-Demo Overview

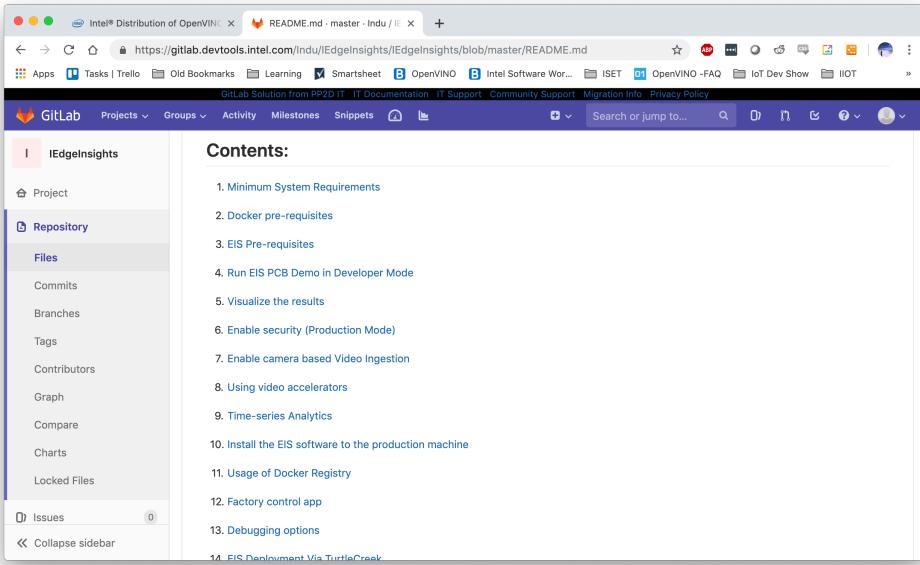
- Download EIS: TBD
- Download OpenVINO: 30min
- Install Docker CE & Docker Compose: 15min
- Compile and Run EIS Stack: 60-90min
- Install Visualizer Prerequisites: 60min
- Run Visualizer: 5min

Total time ~3-3.5 hours



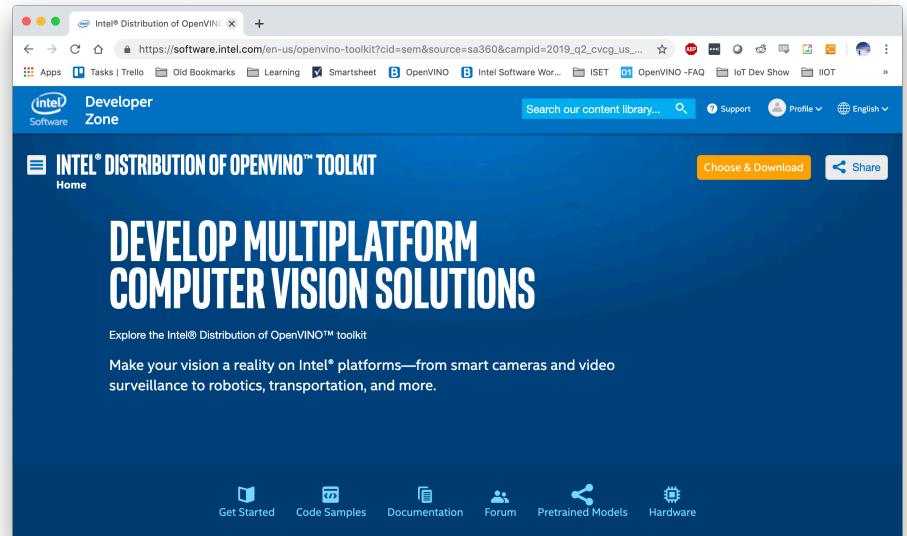
# Edge Insights Software

- Developer: Contact Intel for License – single person
- Download Code
- Intel: Apply for Gitlabs access, Apply for IEdgeinsights repo access
- Download EIS 1.5 LTS branch
- Follow README.md



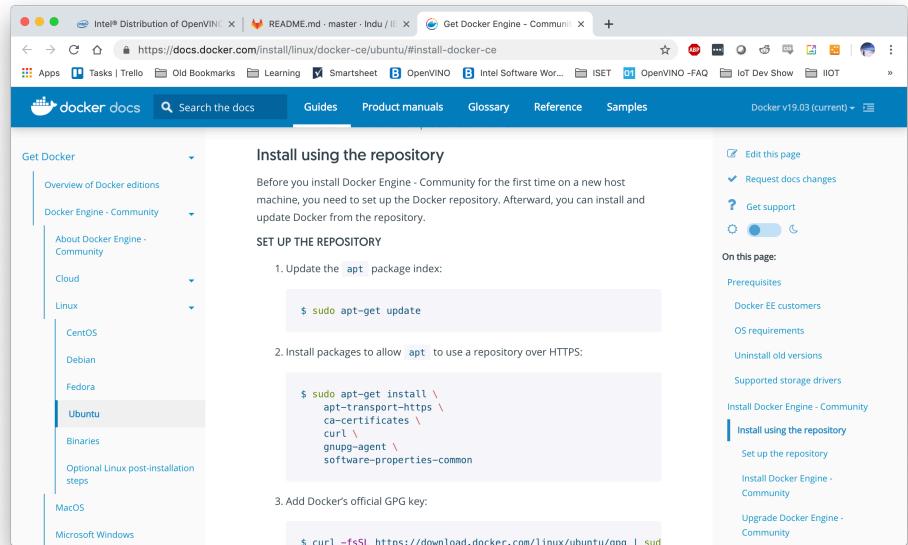
# OpenVINO

- Register on Intel Developer Zone
- Receive License Code via email
- Download Code
- Extract to:  
/IEdgeInsights/DataAnalytics/Video  
Analytics



# Docker

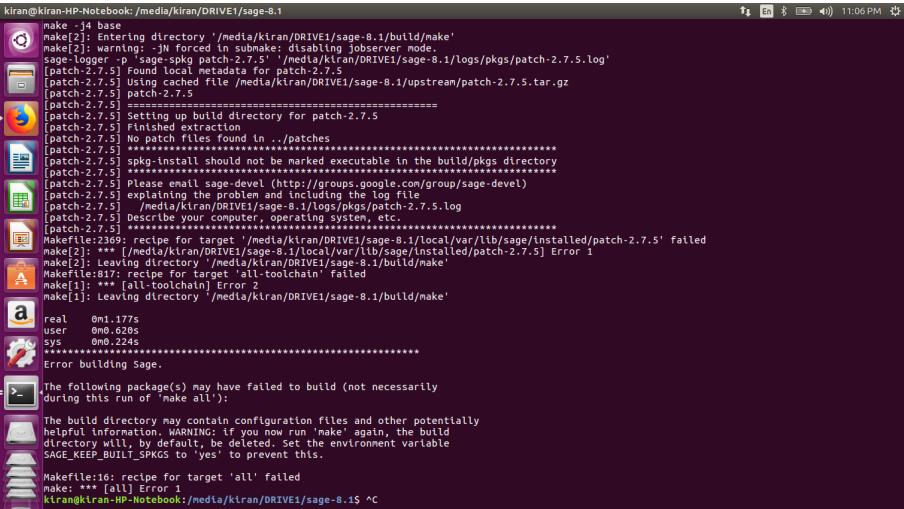
- Docker CE:  
<https://docs.docker.com/install/linux/docker-ce/ubuntu/#install-docker-ce>
- Docker Compose:  
<https://docs.docker.com/compose/install/#install-compose>



The screenshot shows a web browser displaying the Docker documentation for installing Docker Engine - Community on Ubuntu. The left sidebar lists various Linux distributions: Overview of Docker editions, Docker Engine - Community (selected), About Docker Engine - Community, Cloud, Linux (selected), CentOS, Debian, Fedora, Ubuntu (selected), Binaries, Optional Linux post-installation steps, MacOS, and Microsoft Windows. The main content area is titled "Install using the repository". It provides instructions for setting up the Docker repository on a new host machine. Step 1: Update the apt package index with the command \$ sudo apt-get update. Step 2: Install packages to allow apt to use a repository over HTTPS with the command \$ sudo apt-get install apt-transport-https ca-certificates curl gnupg-agent software-properties-common. Step 3: Add Docker's official GPG key with the command \$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -. On the right side, there are links for "Edit this page", "Request docs changes", "Get support", and "On this page" with sections like Prerequisites, Docker EE customers, OS requirements, Uninstall old versions, Supported storage drivers, and Install Docker Engine - Community. The bottom right corner shows the Intel logo.

# Compile and Run EIS

- Edit .env file to set developer mode
- Sudo apt install make
- Sudo make build run
- Fresh Compile takes ~60-90min
  - Download and build 13 docker containers
- Check Logs!



```
kiran@kiran-HP-Notebook:/media/kiran/DRIVE1/sage-8.1
make -j4 base
make[2]: Entering directory '/media/kiran/DRIVE1/sage-8.1/build/make'
make[2]: warning: -JN forced in submake; disabling jobserver mode.
sage-logger -p 'sage-spkg patch-2.7.5' '/media/kiran/DRIVE1/sage-8.1/logs/pkg/patch-2.7.5.log'
[patch-2.7.5] Found local metadata for patch-2.7.5
[patch-2.7.5] Using cached file '/media/kiran/DRIVE1/sage-8.1/upstream/patch-2.7.5.tar.gz'
[patch-2.7.5] patch-2.7.5
[patch-2.7.5] =====
[patch-2.7.5] Setting up build directory for patch-2.7.5
[patch-2.7.5] Finished extraction
[patch-2.7.5] No patch files found in ./patches
[patch-2.7.5] spkg-install should not be marked executable in the build/pkgs directory
[patch-2.7.5] ****
[patch-2.7.5] Please email sage-devel (http://groups.google.com/group/sage-devel)
[patch-2.7.5] explaining the problem and including the log file
[patch-2.7.5] '/media/kiran/DRIVE1/sage-8.1/logs/pkg/patch-2.7.5.log'
[patch-2.7.5] Describe your setup, operating system, etc.
[patch-2.7.5] ****
[patch-2.7.5] ****
[patch-2.7.5] Makefile:2369: recipe for target '/media/kiran/DRIVE1/sage-8.1/local/var/lib/sage/installated/patch-2.7.5' failed
make[2]: *** [/media/kiran/DRIVE1/sage-8.1/local/var/lib/sage/installated/patch-2.7.5] Error 1
make[2]: Leaving directory '/media/kiran/DRIVE1/sage-8.1/build/make'
make[1]: *** [all-toolchain] Error 2
make[1]: Leaving directory '/media/kiran/DRIVE1/sage-8.1/build/make'
real    0m1.975s
user    0m0.650s
sys     0m0.224s
=====
Error building Sage.

The following package(s) may have failed to build (not necessarily
during this run of 'make all'):

The build directory may contain configuration files and other potentially
helpful information. WARNING: if you now run 'make' again, the build
directory will, by default, be deleted. Set the environment variable
SAGE_KEEP_BUILD_PKGS to 'yes' to prevent this.

Makefile:16: recipe for target 'all' failed
make: *** [all] Error 1
kiran@kiran-HP-Notebook:/media/kiran/DRIVE1/sage-8.1$ ^C
```

# Install & Run Visualizer

- [!EdgeInsights/tools/visualizer/README.md](#)
- `sudo make distlibs`
- `sudo apt install python3-pip`
- `./install.sh`
- `source ./source.sh`
- `Python3.6 visualize.py -D true -d true`

```
eis@EIS: ~/Desktop/Scripts/EIS
File Edit View Search Terminal Help
-46a8-9350-263bb835ecad","machine_id":"tool_2","part_id":"2366f776-13bb-4f55-bdd
2-17a6813a91da","timestamp":1567533174.9978473,"influx_ts":1567533175000167642
}
2019-09-03 10:52:55,011 : INFO : visualize : [visualize.py] :draw_defect : in li
ne : [117] : Retieving frame from Image Store: persist_45799445
2019-09-03 10:52:55,011 : DEBUG : root : [client.py] :Read : in line : [108] : I
nside Read() client wrapper...
2019-09-03 10:52:55,018 : DEBUG : root : [client.py] :Read : in line : [118] : S
ending the response to the caller...
2019-09-03 10:52:55,018 : INFO : visualize : [visualize.py] :draw_defect : in li
ne : [121] : Preparing frame for visualization
2019-09-03 10:52:58,168 : INFO : visualize : [visualize.py] :draw_defect : in li
ne : [103] : Received message: {"Measurement": "stream1_results", "Channels": 3.0, "Height": 1200.0, "ImgHandle": "persist_2a306016", "Width": 1920.0, "cam_sn": "camera-se
rial-number", "defects": [{"type": 0, "tl": [713, 554], "br": [736, 595]}, {"type": 1, "tl": [638, 499], "br": [674, 539]}], "display_info": [{"info": "\\"DEFECTDETE
CTED\\", "priority": 2}], "encoding": "jpg", "idx": 63.0, "image_id": "4c3ab67f-6e3d-4
f9f-b177-ec749305fd6e", "machine_id": "tool_2", "part_id": "740c111d-9afa-4b61-8bf4-
a4f64447fd10", "timestamp": 1567533178.160511, "influx_ts": 1567533178162297768
}
2019-09-03 10:52:58,168 : INFO : visualize : [visualize.py] :draw_defect : in li
ne : [117] : Retieving frame from Image Store: persist_2a306016
2019-09-03 10:52:58,168 : DEBUG : root : [client.py] :Read : in line : [108] : I
nside Read() client wrapper...
2019-09-03 10:52:58,174 : DEBUG : root : [client.py] :Read : in line : [118] : S
ending the response to the caller...
2019-09-03 10:52:58,174 : INFO : visualize : [visualize.py] :draw_defect : in li
ne : [121] : Preparing frame for visualization
```

# Run Visualizer

```
Python3.6 visualize.py -D true -d true
```

