

Hi,

I would like to install Edge Control for Industrial (ECS) for testing. The requirements used are:

- 1) Ubuntu 18.04 (kernel 5.0.0) in VM to build images and to use as Target System.
- 2) Windows 10 64x with CodeSys installed.

The steps followed were:

- 1) I unzipped the file and installed as discribed below.

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## Get the Edge Controls for Industrial Package

The following section applies to the Linux Build system.

1. Download the [Edge Controls for Industrial package](#).
2. Copy `edge_controls_industrial.zip` to the home directory.
3. In the terminal, extract the package:

```
unzip edge_controls_industrial.zip
```

You will now run a script that will download components and install Edge Controls for Industrial on your host system. The software build process can take 1 to 12 hours depending on the host system and internet connection.
4. Run these commands and type the product key when prompted:

```
cd edge_controls_industrial/  
chmod 775 edgesoftware  
./edgesoftware install
```

See [Choose ECS Targets](#) for configuration options. Once the install step is complete, the OS image of your choosing will be built.

- 2) After, I runned `setup.sh`.

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## Build an Image on a Linux Build System

2. Navigate to the `esb_modules/Edge_Controls_for_Industrial/release-ecs_1.5/ecs-release` directory and run the following script:

```
./setup.sh
```
3. Select `kvm-poky` or `kvm-deby` from as a build target from the list.

```
ECS Targets  
Select a target to prepare:  
acrn-sos  
base-deby  
base-poky  
kvm-deby  
kvm-poky  
rts-deby  
rts-poky  
xenomai-isar  
<0k> <Cancel>
```
4. Select features to include in the image. When you are done, hit **Enter**.

```
Available Options for: kvm-poky
```

There were just five warnings, as below:

```
WARNING: /home/ecs/Edge_Controls_for_Industrial_1.5/Edge_Controls_for_Industrial/
release-ecs_1.5/ecs-release/build/ecs-kvm-poky/build/../../../../targets/resources/m
eta-codesys-runtime/recipes-tools/codesyscontrol/codesyscontrol-x64_3.5.14.40.bb:
Unable to get checksum for codesyscontrol-x64 SRC_URI entry codesyscontrol_x64_l
inux_V3.5.14.40.deb: file could not be found
WARNING: /home/ecs/Edge_Controls_for_Industrial_1.5/Edge_Controls_for_Industrial/
release-ecs_1.5/ecs-release/build/ecs-kvm-poky/build/../../../../targets/resources/m
eta-codesys-runtime/recipes-tools/codemeter/codemeter_6.81.3477.500.bb: Unable to
get checksum for codemeter SRC_URI entry codemeter_6.81.3477.500_amd64.deb: file
could not be found
WARNING: /home/ecs/Edge_Controls_for_Industrial_1.5/Edge_Controls_for_Industrial/
release-ecs_1.5/ecs-release/build/ecs-kvm-poky/build/../../../../targets/resources/m
eta-benchmarking-rt/recipes-benchmarking/msi-latency-cobalt/msilatency-cobalt.bb:
Unable to get checksum for msilatency-cobalt SRC_URI entry benchmarking.ecs-kvm-
poky.tar.gz: file could not be found
WARNING: /home/ecs/Edge_Controls_for_Industrial_1.5/Edge_Controls_for_Industrial/
release-ecs_1.5/ecs-release/build/ecs-kvm-poky/build/../../../../targets/resources/m
eta-benchmarking-rt/recipes-benchmarking/msi-jitter-cobalt/msijitter-cobalt.bb: U
nable to get checksum for msijitter-cobalt SRC_URI entry benchmarking.ecs-kvm-pok
y.tar.gz: file could not be found
WARNING: /home/ecs/Edge_Controls_for_Industrial_1.5/Edge_Controls_for_Industrial/
release-ecs_1.5/ecs-release/build/ecs-kvm-poky/build/../../../../targets/resources/m
eta-benchmarking-rt/recipes-benchmarking/cpumem/cpumem.bb: Unable to get checksum
for cpumem SRC_URI entry benchmarking.tar.gz: file could not be found
Parsing recipes: 100% |#####| Time: 0:09:06
Parsing of 2790 .bb files complete (0 cached, 2790 parsed). 4224 targets, 340 ski
pped, 0 masked, 0 errors.
```

Those are final logs:

```
NOTE: Fetching uninative binary shim from http://downloads.yoctoproject.org/relea
ses/uninative/2.8/x86_64-nativesdk-libc.tar.xz;sha256sum=a09922172c3a439105e0ae6b
943daad2d83505b17da0aba97961ff433b8c21ab
Initialising tasks: 100% |#####| Time: 0:00:08
Sstate summary: Wanted 0 Found 0 Missed 0 Current 0 (0% match, 0% complete)
NOTE: No setscene tasks
NOTE: Executing Tasks
NOTE: Tasks Summary: Attempted 1 tasks of which 0 didn't need to be rerun and all
succeeded.

Summary: There were 5 WARNING messages shown.
cp: cannot stat '/tmp/tmp.Id6XSjXqk8/Delivery/codesyscontrol_x64_linux_V0.0.0.0.d
eb': No such file or directory
ecs@ecs-Virtual-Machine:~/Edge_Controls_for_Industrial_1.5/Edge_Controls_for_Indu
strial/release-ecs_1.5/ecs-release$
```

In the directory “ecs-release”, it was created “build/ecs-kvm-poky/..”. However, I couldn’t see any image extension.

3) When I tried to create bootable USB, I got this message.

```
ecs@ecs-Virtual-Machine:~/edgecontrolsystem/Edge_Controls_for_Industrial_1.5/Edge_Controls_for_Industrial/release-ecs_1
.5/ecs-release$ sudo ./create_bootable_usb.sh
[sudo] password for ecs:
no built images found.
Build target image first using setup.sh script.
```

So, questions are:

- 1) Is there any problem to use VM in this kind of test?
- 2) Why didn’t “setup.sh” build images in this scenario?

