

# Advantech AE Technical Share Document

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Category	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	Related OS	CentOS
Abstract	How to Install SNMP Linux (Container v0.08) on ECU-4784		
Keyword	ECU-4784, SNMP, Linux, Container v0.08		
Related Product	ECU-4784 series.		

## ■ Introduction

We've been reported that SNMP-Subagent-v1.00 (64 bit) from Linux SNMP driver for ECU-4784 download link (<https://www.advantech.tw/support/details/software-api?id=1-1B9CYQ3>) is not compatible with newer Linux version such as CentOS7.9. Linux (Container v0.08) is released for running SNMP service with newer Linux OS version.

## ■ Step 1: Download SNMP (Container v0.08) and necessary files.

Linux container\_v0.08.zip

ADVANTECH-PLATFORMS-MIB

advpsustatus

<https://www.advantech.tw/support/details/software-api?id=1-1B9CYQ3>

## ■ Step 2: Follow README file to install docker, image, and run image.

The README file can be found in Linux

container\_v0.08\v0.08\adv-snmp-subagent.docker.image.v0.08\image. The followings are the commands we used to install and run docker.

```
sudo yum install -y yum-utils
```

```
sudo yum-config-manager \
  --add-repo \
  https://download.docker.com/linux/centos/docker-ce.repo
```

```
sudo yum install docker-ce docker-ce-cli containerd.io docker-compose-plugin
```

```
sudo systemctl enable docker
```

Go to the following directory, use following commands to install and run the image.

Linux container\_v0.08\v0.08\adv-snmp-subagent.docker.image.v0.08\image

```
./install
```

```
./run
```

■ **Step 3: Install advpsustatus driver in order to get PSU monitoring function to work.**

1. Copy advpsustatus.ko to /lib/modules/3.10.0-1160.el7.x86\_64/extra/
2. Copy advpsustatus.conf to /etc/modules-load.d/
3. Run depmod -a
4. Reboot the system and run `lsmod | grep adv` to check if the driver is loaded automatically.

■ **Step 4: Check the SNMP connection result by MIB browser**

Load mib file and use iReasoning MIB Browser to check SNMP connection as below screenshot.

The screenshot shows the iReasoning MIB Browser interface. The address is set to 172.17.8.37 and the OID is .1.3.6.1.4.1.10297.200.2.8.4.0. The MIB tree on the left shows the path to the power state MIB. The main table displays various power-related metrics.

Name/OID	Value	Type	IP:Port
.1.3.6.1.2.1.1.1.0	Linux localhost.localdomain 3.10.0-1160.el...	OctetString	172.17.8...
cpuLoading.0	0	Integer	172.17.8...
currentSpeed.0	887	Integer	172.17.8...
maxSpeed.0	0	Integer	172.17.8...
.1.3.6.1.4.1.10297.200.2.4.4.0	1	Integer	172.17.8...
.1.3.6.1.4.1.10297.200.2.4.5.0	-1	Integer	172.17.8...
.1.3.6.1.4.1.10297.200.2.4.6.0	-1	Integer	172.17.8...
.1.3.6.1.4.1.10297.200.2.4.7.0	-1	Integer	172.17.8...
pwrState.0	pwr-redundancylost (2)	Integer	172.17.8...
pwrStateSeverity.0	warning (3)	Integer	172.17.8...
pwrStateGetTime.0	2022-6-8,5:36:33.0,+0:0	OctetString	172.17.8...

Below the table, a detailed view of the selected MIB entry is shown:

Name	pwrStateGetTime
OID	.1.3.6.1.4.1.10297.200.2.8.4
MIB	ADVANTECH-PLATFORMS-...
Syntax	DateAndTime

**Reference:**

- <https://docs.docker.com/install/linux/docker-ce/ubuntu/>
- <https://docs.docker.com/install/linux/docker-ce/centos/>
- <https://docs.docker.com/install/linux/docker-ce/debian/>
- <https://docs.docker.com/install/linux/docker-ce/fedora/>