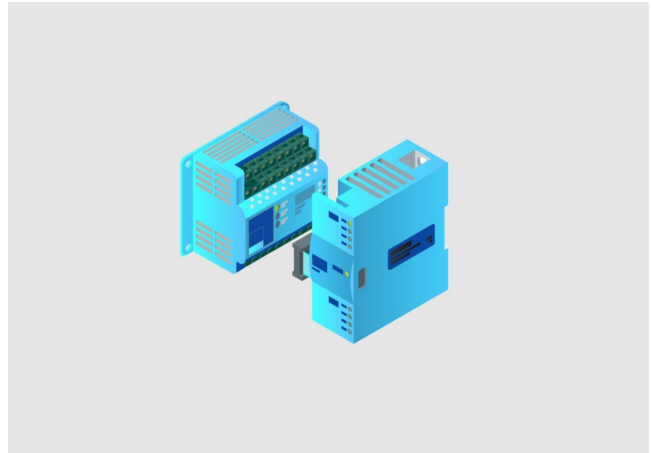
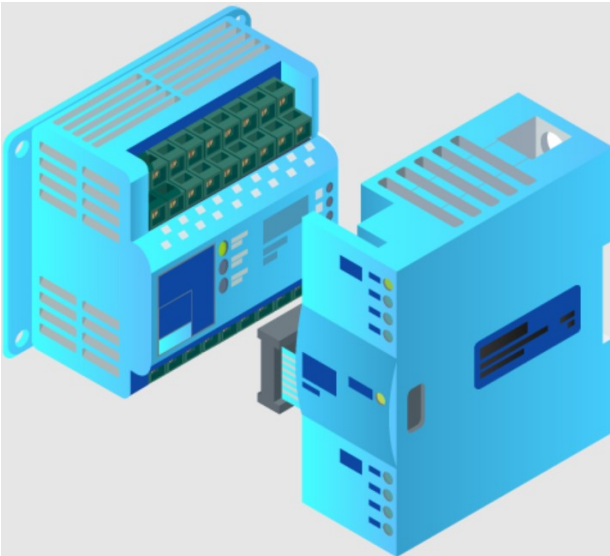




ADVANTECH EdgeLink IoT Gateway Software Container Version Instruction Manual

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EdgeLink (Container Version)

Packages Included

Package Name	Content	Function
CONTAINER-edgeline-docker-2.8.X-xxxxxxx-amd64.deb	Agent	Download EdgeLink Studioprojects and startEdgeLink Container.
edgeline_container_2.8.x_Release_xxxx.tar.gz	EdgeLink Runtime	Run EdgeLink Runtime.

Recommended environment: Docker environment (supports Ubuntu 18.04 i386)

Description: Up to 100 tags can be added for a 2-hour trial of EdgeLink container as default.

Activation method: EdgeLink container should be activated in a physical machine rather than a virtual one. For activation method details, please contact Advantech.

Description of Host Port Occupation

Port Type	Port	Application	Status
UDP	6513	Agent	Occupied after the agent deb package is installed
TCP	6001	Agent	Occupied after the agent deb package is installed
TCP	502	Modbus Server	Occupied if the Modbus server is enabled
TCP	2404	IEC 104 Channel 1	Occupied if the IEC 104 Server(channel 1) is enabled
UDP	47808	BACnet Server	Occupied if the BACnet Server is enabled
TCP	504	WASCADA	Occupied if the WASCADA server is enabled
TCP	51210	OPC UA	Occupied if the OPC UA Server is enabled
TCP	443	WebService	HTTPS occupies this port
TCP	41100	eclr	Occupied if the eclr is enabled

Instructions

1. Build a Docker environment for EdgeLink Runtime

1. Install Docker in Ubuntu system

Reference link: <https://docs.docker.com/engine/install/ubuntu/>

2. Install EdgeLink Runtime Docker image

Step 1: Download EdgeLink-Docker Agent

<https://www.advantech.com.cn/zh-cn/support/details/firmware?id=1-28S1J4D>

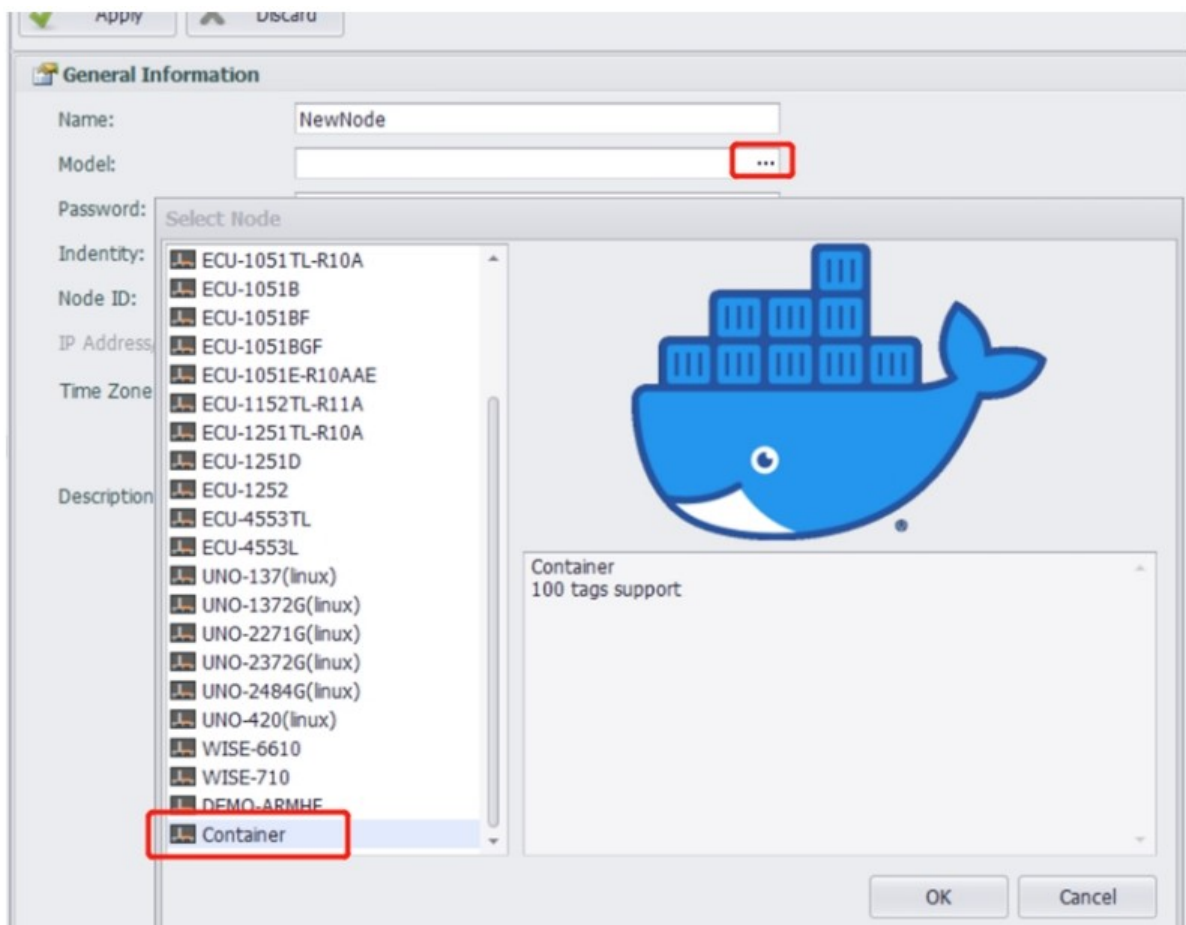
Step 2: Install the Agent package. (If failed, repeat this step after Step 5) `Apt install ./CONTAINER-edgelink-docker-2.8.0-202112290544-amd64.deb`

Note: CONTAINER-edgelink-docker-2.8.0-202112290544-amd64.deb is your file name.

Step 3 Set up soft links for serial ports For EdgeLink, /dev/ttyAP0 is COM1, /dev/ttyAP1 is COM2 and so on. For example, I want /dev/ttyS0 to be EdgeLink COM1. I should use “sudo ln -s /dev/ttyS0 /dev/ttyAP0” to set up the soft link. (Please make sure there is no /dev/ttyAP0 in you system before you set up the soft link)

2. Download project file by EdgeLink Studio

1. Create a project and set the project node type to 'Container.'



The IP address is the Ubuntu OS IP running the Docker environment.

General Information

Name:

Model:

Password:

Identity:

IP Address/Domain Name:

Time Zone:

Docker Repository:

Docker Tag:

Description:

- Configure the required functions in the project. (For help, refer to the Project Implementation section).
The following is an example of collecting data from a Modbus/TCP slave device:
It simulates a Modbus/TCP device by Modsim on the PC, and then collects data by EdgeLink (Container version).

Project Configuration

container

- NewNode-192.168.23.132
 - Data Center
 - IO Tag
 - COM1 (Disable)
 - COM2 (Disable)
 - TCP**
 - System Tag
 - Calculation Tag
 - User Tag
 - Data Storage
 - Service
 - Cloud

NewDevice(NewNode)*

General Information

☒ Enable

Name:

Device Type:

☐ Device Model

Unit Number:

Tag Write Type:

Description:

☒ Add device name as prefix to IO tags

TCP/IP

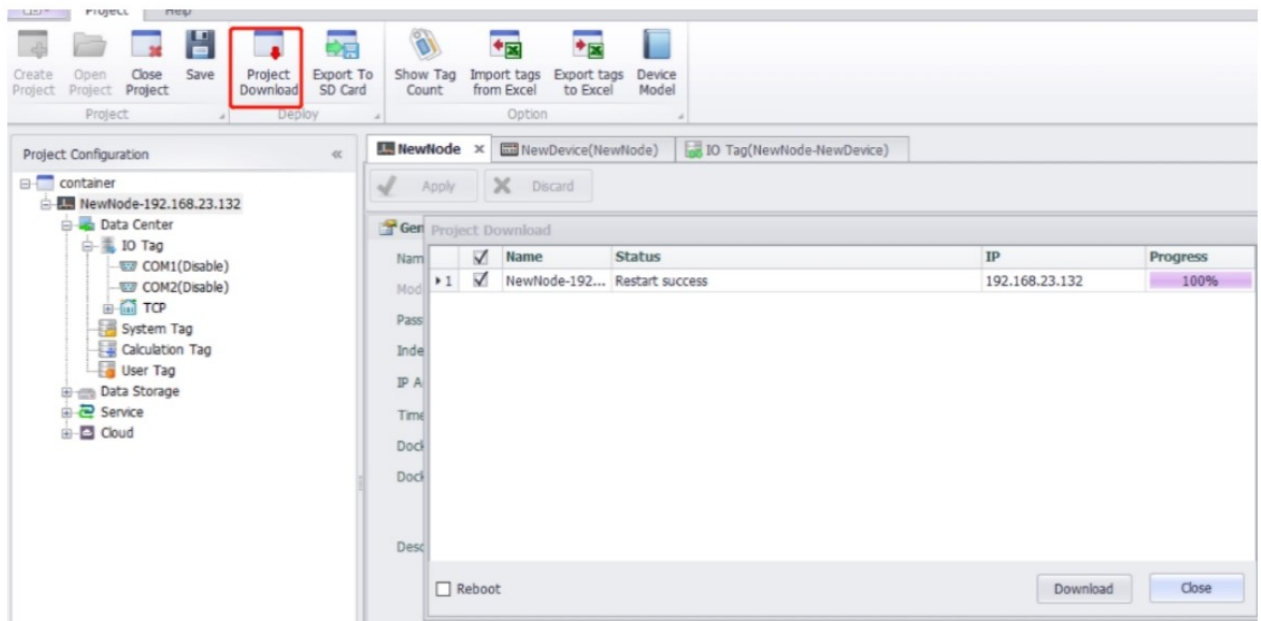
IP/Domain:

Port Number:

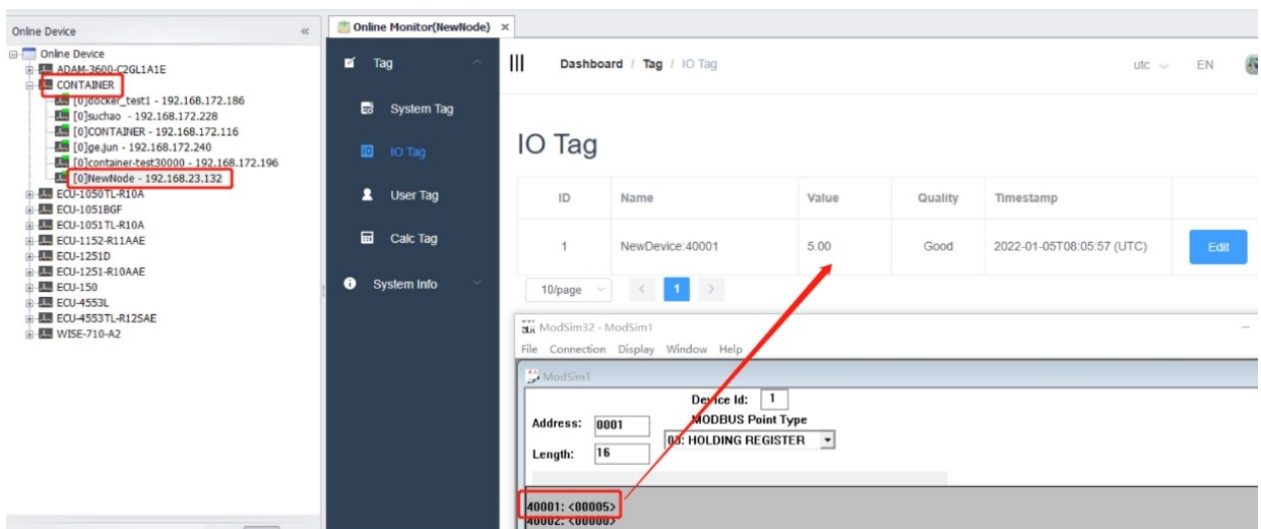
Extention Properties

☐ Device Address (if other than Unit Number):

Download the project after the configuration is complete.



3. View the results



4. Container checking command
5. edgelinek docker service management
6. stop edge link- docker systemctl stop edge link – docker
7. start edgelinek-docker systemctl start edge link- docker
8. restart edgelinek-docker systemctl restart edge link – docker
9. boot disable edgelinek-docker systemctl disable edge ink-docker
10. boot enable edge link- docker systemctl enable edge link- docker
11. Check Container status docker ps

Enter the container in the host computer.

Because container share the network with the host computer (this Ubuntu). Needs the command below to enter.
 docker exec -it edgelinek /bin/bash

```
fuyu@ubuntu:~$ docker exec -it edgelinek /bin/bash
root@ubuntu:/#
```

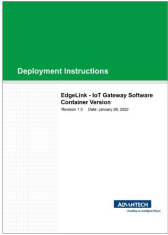
Using "exit" to exit the container to the host PC.

```
fuyu@ubuntu:~$ docker exec -it edgelinek /bin/bash
root@ubuntu:/# exit
exit
fuyu@ubuntu:~$
```

Check the system log of container (you should enter the container first) tail -F /var/log/syslog

```
root@ubuntu:/# tail -F /var/log/syslog
Jan  6 05:58:23 ubuntu DataCenter: [elic_mgr_sdk.c:339:elic_mgr_entity_validate
] no validate_result field
Jan  6 05:58:30 ubuntu DataCollector: DevWebAccess comm_stop: StopDriver on MOD
_DEV
Jan  6 05:58:31 ubuntu DataCollector: DevWebAccess comm_start: StartDriver on M
OD_DEV
Jan  6 05:58:33 ubuntu DataCenter: [elic_mgr_sdk.c:339:elic_mgr_entity_validate
] no validate_result field
Jan  6 05:58:40 ubuntu DataCollector: DevWebAccess comm_stop: StopDriver on MOD
_DEV
```

Documents / Resources



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CONTAINER-edgelinek-docker2.8.X, EdgeLink IoT Gateway Software Container Version, EdgeLi
nk, EdgeLink IoT Gateway, IoT Gateway, IoT Gateway Software Container Version, Gateway So
ftware Container Version, Gateway Software, Gateway

References

[Manuals+.](#)