

VIAS

FAQs

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Huawei Cloud Computing Technologies Co., Ltd.

Address: Huawei Cloud Data Center Jiaoxinggong Road
Qianzhong Avenue
Gui'an New District
Gui Zhou 550029
People's Republic of China

Website: <https://www.huaweicloud.com/intl/en-us/>

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1 How Are the Analysis Results Processed and Saved?

When using an edge algorithm, the algorithm package is sent to your edge node as an image. The algorithm is executed on your edge node, and any analysis results and alarms are output to the path you configured.

VIAS only analyzes your video stream data in real time and does not store any of your data.

2 How Do I View Algorithm Logs?

1. Log in to the IEF console.
2. In the navigation pane, choose **Managed Resources > Edge Nodes**.
3. Click an edge node name.
4. On the **Configuration** tab page, locate **Log Configuration**. Under **System Logs**, click **Edit** and enable the option to **Save Logs to AOM**. Click **Save**. Repeat the same steps for **Application Logs**.

You can view the logs on AOM. For details, see [Viewing Logs on AOM](#).

- **System Logs:** logs generated by the IEF software
- **Application Logs:** logs generated by applications, for example, logs generated by algorithm jobs

Figure 2-1 Enabling the system log function

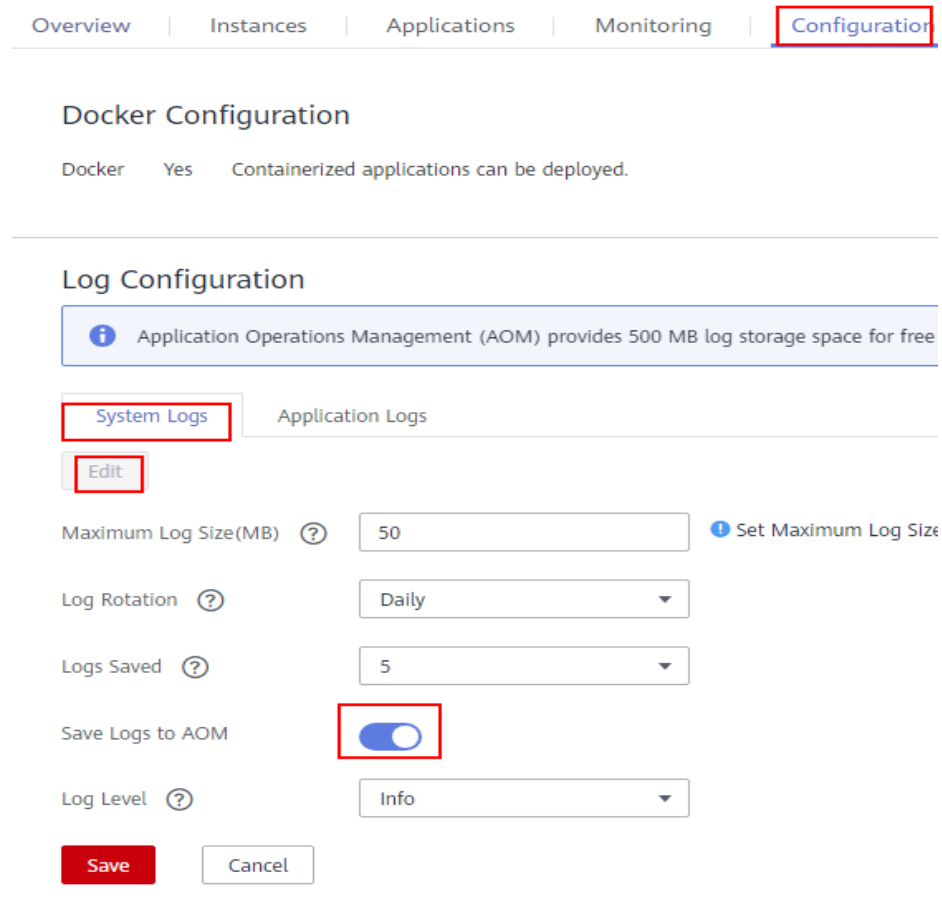
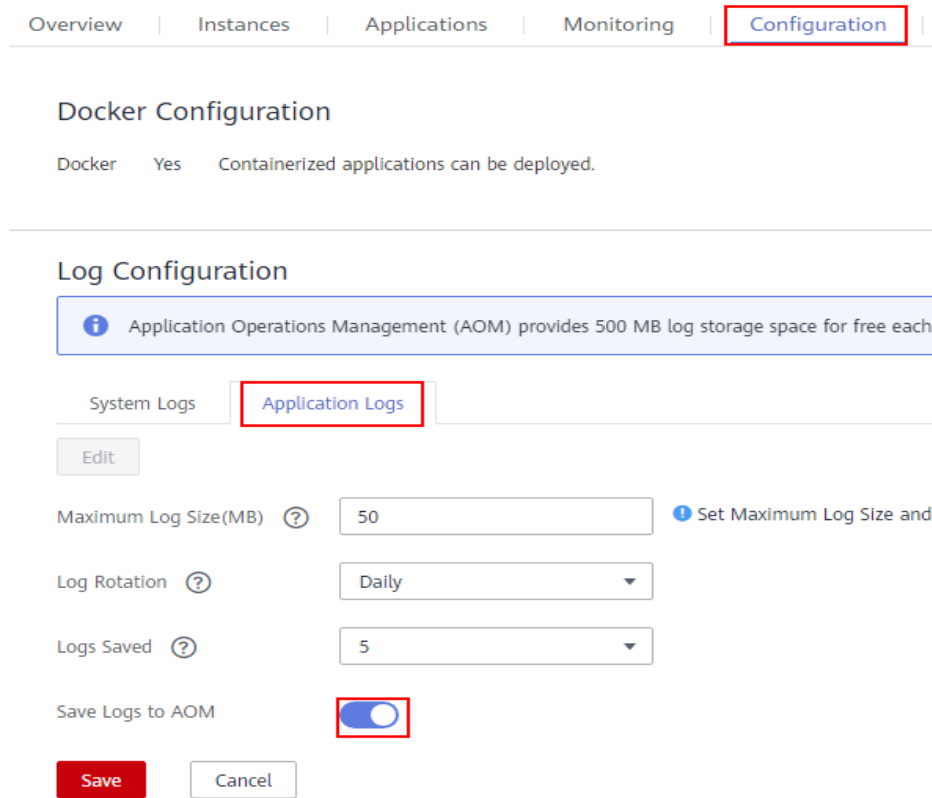


Figure 2-2 Enabling the application log function



3 What Are the Differences Between Edge Algorithms and Cloud Algorithms?

To use an edge algorithm, you must deploy the algorithm on your edge device. The algorithm jobs will be executed in this device, which eliminates the need to upload video stream data to Huawei Cloud.

To use a cloud algorithm, video stream data must be uploaded to and analyzed on Huawei Cloud.

Table 3-1 Differences between edge algorithms and cloud algorithms

Type	Function	Run On	Video Data Uploaded To
Edge algorithm	Same	Edge device	Edge device
Cloud algorithm	Same	Huawei Cloud	Huawei Cloud

4 How Do I Check the Driver Version of an Edge Node?

- VIAS supports x86+GP Tnt004 servers. If Tnt004 servers are used, download the recommended [Tnt004 driver version](#).

[Figure 4-1](#) shows the command output once the command has been executed.

Figure 4-1 GP Tnt004 card driver information

```
[@t4-100496191-0003 0-work]$ nvidia-smi
Thu Jan 14 19:24:01 2021

+-----+
| NVIDIA-SMI 418.67      Driver Version: 418.67      CUDA Version: 10.1      |
+-----+-----+-----+
| GPU  Name            Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf    Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compute M. |
+-----+-----+-----+
|   0   Tesla T4             Off          | 00000000:21:01.0 Off |                    0 |
| N/A   40C    P0             27W /  70W |  171MiB / 15079MiB |      0%      Default |
+-----+-----+-----+

Processes:
+-----+-----+-----+
| GPU    PID    Type   Process name      GPU Memory |
|                   Usage            |
+-----+-----+-----+
|   0     15897    C      python              161MiB |
+-----+-----+-----+
```

- VIAS supports Kunpeng+D310 servers. **The service only supports the D310 chip driver of the c82 version. If the current server's D310 chip driver is not the c82 version, install the c82 version.**

Run the `npu-smi info` command to view the driver of the D310 chip.

Run the `./A300-3000-npu-driver_5.1.rc2_linux-aarch64.run --full` command to install the driver of the c82 version.

If the system displays a message indicating that a user is missing during the installation, add a user. After the driver is installed, ensure that the user group ID of `HwHiAiUser` is `1001`. You can run the `id HwHiAiUser` command to view the user group ID.

- If the D310 chip driver installed on the server is of the c82 version, the command output is displayed as shown in [Figure 4-2](#). The c82 driver's version number is 22.0.2.

Figure 4-2 D310 chip driver of the c82 version

```
[root@localhost ~]# npu-smi info
```

npu-smi 22.0.2		Version: 22.0.2			
NPU Chip	Name Device	Health Bus-Id	Power(W) AICore(%)	Temp(C) Memory-Usage(MB)	Hugepages-Usage(page)
80 0	310 0	OK 0000:05:00.0	12.8 0	60 655 / 7764	0 / 970

- VIAS supports Kunpeng+D710 servers. **The service only supports the D370 chip driver of the c82 version. If the current server's D710 chip driver is not the c82 version, install the c82 version.**

Run the `npu-smi info` command to view the driver of the D710 chip.

Run the `./Atlas-300i-pro-npu-driver_5.1.rc2_linux-aarch64.run --full` command to install the driver of the c82 version.

If the system displays a message indicating that a user is missing during the installation, add a user. After the driver is installed, ensure that the user group ID of `HwHiAiUser` is `1001`. You can run the `id HwHiAiUser` command to view the user group ID.

- If the D710 chip driver installed on the server is of the c82 version, the command output is displayed as shown in [Figure 4-3](#). The c82 driver's version number is 22.0.2.

Figure 4-3 D710 chip driver of the c82 version

```
[root@localhost ~]# npu-smi info
```

npu-smi 22.0.2		Version: 22.0.2			
NPU Chip	Name Device	Health Bus-Id	Power(W) AICore(%)	Temp(C) Memory-Usage(MB)	Hugepages-Usage(page)
2 0	310P3 0	OK 0000:02:00.0	NA 0	71 1763 / 21534	403 / 403
3 0	310P3 1	OK 0000:04:00.0	NA 0	72 3437 / 21534	1201 / 1201
5 0	310P3 2	OK 0000:85:00.0	NA 0	44 921 / 21534	0 / 0
6 0	310P3 3	OK 0000:8B:00.0	NA 4	68 1491 / 21534	269 / 269