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Gateway Setup Guide

Gateway Setup Guide

Dverview

Lumeo <u>Gateway</u> can be setup on a wide variety of hardware running on your premises, in public clouds or in the Lumeo cloud. This guide describes how to set it up on your hardware.

Helpful References : <u>Gateway</u> documentation <u>Recommended Gateway Hardware</u>

Lumeo Gateway Installer

Interactive Install

Set up a new Gateway by running the following command on it and following the installer prompts:

```
bash <(wget -q0- https://link.lumeo.com/setup)</pre>
```

This command can also be found in Console under Gateways \rightarrow Add Gateway. The installer offers you a bunch of options to optimize your installation in the interactive model. Installing the Gateway using this installer will also set it up to auto update whenever a new Gateway version is released.

Unattended Install

Gateway installer supports the following environment variables to allow for bulk, unattended installations:

Env Variable	Description	Notes

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Env Variable	Description	Notes
LUMEO_APP_ID	Specify the Application ID to connect this gateway to. See <u>API</u> section to find your Application ID.	Currently only supported for host (non-containerized) installations or Advanced Installation (see section below)
LUMEO_API_KEY	Provide the API Key for the specific Application you want to connect this gateway to. See <u>API</u> section to find your API Key.	Currently only supported for host (non-containerized) installations or Advanced Installation (see section below)
NO_PROMPT	Specify this env variable to provision a Gateway using the default settings.	

Examples:

Install and provision gateway to a specific Application Id.

```
LUMEO_APP_ID="app_id" LUMEO_API_KEY="api_key" bash <(wget -q0- https://link.lumeo.com/s
```

Manual Container Install

You can also install Lumeo containers directly using the following commands, but then you will be responsible for updating the container yourself when new Gateway versions are released.

The interactive or unattended install methods described above also let you use containers, but in addition, will set your containers up for automated upgrades when new versions are released. Use the Manual container install method when you would like control over upgrades.

Nvidia Jetson

x86 + DGPU

AWS - Lumeo Gateway Installer

Before using the Lumeo Gateway Installer on your Nvidia GPU enabled AWS EC2 machines, follow these steps :

In the EC2 console, configure and launch machine instance with the following configuration:

- Ubuntu 20.04 or 22.04 OS (x86)
- At least 50 GB of Disk space
- Instance type must have an Nvidia GPU (XXdn.XXXXX are Nvidia GPUs)
 - <u>https://docs.aws.amazon.com/dlami/latest/devguide/gpu.html</u>
 - G4dn.xlarge is a single T4 which is suitable and recommended for most applications

Linux aWS ubuntu® Microsoft Microsoft SUSE Including AMIs from AWS, Marketplace and the Community Amazon Machine Image (AMI) Ubuntu Server 20.04 LTS (HVM), SSD Volume Type ami-0960ab670c8bb45f3 (64-bit (x86)) / ami-0b4fa084a1e7e6f5a (64-bit (Arm)) Virtualization: hvm ENA enabled: true Root device type: ebs Free tier eligible Architecture AMI ID	Amazon	Ubuntu	Windows	Red Hat	SUSE Linux	Q
Amazon Machine Image (AMI) Free tier eligible Ubuntu Server 20.04 LTS (HVM), SSD Volume Type ami-0960ab670c8bb45f3 (64-bit (x86)) / ami-0b4fa084a1e7e6f5a (64-bit (Arm)) Virtualization: hvm Free tier eligible Virtualization: hvm ENA enabled: true Root device type: ebs Description Canonical, Ubuntu, 20.04 LTS, amd64 focal image build on 2022-06-10 Architecture AMI ID	aws	ubuntu®	Microsoft	ned Hat	SUSE >	Browse more AMIs Including AMIs from AWS, Marketplace and the Community
Ubuntu Server 20.04 LTS (HVM), SSD Volume Type Free tier eligible ami-0960ab670c8bb45f3 (64-bit (x86)) / ami-0b4fa084a1e7e6f5a (64-bit (Arm)) Free tier eligible Virtualization: hvm ENA enabled: true Root device type: ebs Description Canonical, Ubuntu, 20.04 LTS, amd64 focal image build on 2022-06-10 Architecture AMI ID	Amazon Mach	ine Image (AMI)				
Description Canonical, Ubuntu, 20.04 LTS, amd64 focal image build on 2022-06-10 Architecture AMI ID	Ubuntu Serv ami-0960ab67 Virtualization:	er 20.04 LTS (HV 0c8bb45f3 (64-bit hvm ENA enable	(M), SSD Volume (x86)) / ami-0b4fa ed: true Root de	e Type 084a1e7e6f5a (6 vice type: ebs	4-bit (Arm))	Free tier eligible
	Architecture		AMI ID			
64-bit (x86) 🔹 ami-0960ab670c8bb45f3		•	ami-0960ab670	0c8bb45f3		

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After launching the virtual, log in, execute the following commands to configure the machine instance and install Lumeo Gateway software:

sudo apt update

Install nvidia drivers

sudo apt install nvidia-compute-utils-495 nvidia-dkms-495 nvidia-driver-495 nvidia-kern

Verify the nvidia drivers are properly installed, execute the command:

nvidia-smi

To see output like this

Shell

```
ubuntu@aws-lumeo-gateway:~$ nvidia-smi
Sat Jun 4 01:10:01 2022
```

NVID	IA-SMI	510.7	3.05 C)river	Version:	510.73.05	(CUDA Versio	on: 11.6
GPU Fan 	Name Temp	Perf	Persiste Pwr:Usag	ence-M Je/Cap	Bus-Id	Disp. Memory-Usag	.A ge	Volatile GPU-Util	Uncorr. ECC Compute M. MIG M.
===== 0 N/A 	Tesla 37C	т4 Р8	15W /	0ff 70W	-======== 00000000 0M	0:00:1E.0 01 iB / 15360M:	===- ff iB	0%	0 Default N/A
+ + Proc	esses:								

If you receive an error, reboot the instance as it maybe required for different instance types and the drivers to load properly.

Finally execute the installer interactively and selecting the default option which is container.

bash <(wget -q0- https://link.lumeo.com/setup)</pre>

AWS - AMI Images

Using a Lumeo published AMI image makes it easy to setup a Lumeo Gateway hosted in your AWS account and provision it to your Lumeo account.

Instructions : Coming soon.

Post Install

Once setup, return to the Console to see it show up in the Gateways list.

🧐 lumeo	Gateways				Add Gateway			
Default Application $$	Q Search gateways by name, ID, IP address, or model							
Dashboard	NAME	MODEL	LOCAL IP	RECENT ACTIVITY	STATUS			
🔟 Documentation 🗈	aim-desktop	NVIDIA Jetson Xavier NX Developer Kit	192.168.1.178	yesterday	Online			
DESIGN & DEPLOY								
😽 Pipelines								
Deployments								
Analytics Library								
MANAGE								
🚆 Gateways								
🛋 Cameras								
្ណា Input Streams								
🖵 Output Streams								
MONITOR								
() Events								

You need to ensure the Gateway is able to talk to Lumeo's cloud services. More info in <u>Security &</u> <u>Network</u> section.

🖞 Updated 6 days ago

Recommended Gateway Hardware

Jetson Tips: Monitoring and Jetpack Upgrade →

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