Neurotechnology SentiVeillance Cluster

Installation guide

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Installation

Single machine

OS

1. Install Debian Linux distribution `debian-11.2.0-2-amd64-with-nvidia-docker.iso` with Docker.

2. Make bootable USB key if you are installing into physical computer and start the installation.

3. Choose where to install Debian
4. Continue.

5. Check if there is a bootable partition and continue
6. Finish the installation

7. Reboot and remember the computer IP
NVidia GPU driver

Install NVidia GPU driver.

1. $ sudo ./NVIDIA-Linux-x86_64-515.48.07.run

Choose Yes to disable Nouveau driver during NVidia GPU driver installation, reboot OS and run NVidia GPU driver installation again. Select default choices during installation.

Check installed NVidia driver.

2. $ nvidia-smi
**SentiVeillance Cluster**

1. Install the *SentiVeillance Cluster* from file *SentiVeillance_8_2_Cluster_Linux_x86_64.zip*. Extract and run the following instructions:

   ```bash
   cd SentiVeillance_8_2_Cluster
   $ sudo ./sentiveillance-cluster-ctl.sh install
   ```

   or other command if you are using licenses from Dongle, connect Dongle and run install command

   ```bash
   $ sudo ./sentiveillance-cluster-ctl.sh install --trial 0
   ```

   Choose to use default ip address.

2. If your network has no DNS server, you need to update configuration in `/opt/neurotec/sentiveillance-cluster-unit/docker-compose.yml` so that video stream can be retrieved from Milestone VMS.
   Find `extra_hosts sections` and enter name and address:
   ```yaml
   extra_hosts:
   - milestone-pc-name:172.16.0.100
   ```

3. Once installed and configured, start the *SentiVeillance Cluster*:

   ```bash
   $ sudo ./sentiveillance-cluster-ctl.sh start
   ```


5. **Login** with *admin* with password *admin*.

   ![SentiVeillance Web Panel](image)

Read the *SentiVeillance Cluster* user guide to configure *SentiVeillance Cluster*.

**Kubernetes**

For larger installations with many cameras, *SentiVeillance Cluster* should be installed on Kubernetes cluster. Installation can be performed using provided Helm charts.
Extract SentiVeillance_8_2_Cluster_Linux_x86_64.zip file and see charts/sentiveillance-cluster/README.md for more detailed instructions

**Licensing**

Your installed computer must have access to internet to acquire Trial licenses to try SentiVeillance Cluster or you must have Dongle with licenses.

If you have Dongle with SentiVeillance Cluster licenses

- Install SentiVeillance Cluster SentiVeillance Cluster or Kubernetes
- Connect Dongle to the installed PC. In Kubernetes case check the value `global.licensing.host` for the PC name. Restart service `systemctl restart npgadmin`

If you have already installed SentiVeillance Cluster with trial and now want to switch to licenses from Dongle.

- Connect Dongle to computer
- Modify value `Trial=false` to false in
  `/opt/neurotec/sentiveillance-cluster-unit/activation/pgd.conf` and restart service `systemctl restart npgadmin`