< Previous Unit 8 of 11 ∨ Next >



Exercise - Upload a video to your edge device to be processed

6 minutes

Perform the following steps in Azure Cloud Shell.

Upload the video to your edge device

- 1. Open Cloud Shell.
- 2. Run the following command to download the bottle shelf video ☑ from GitHub.

```
wget https://github.com/Azure-Samples/azure-intelligent-edge-
patterns/raw/master/factory-ai-
vision/EdgeSolution/modules/CVCaptureModule/videos/scenario4-empty-shelf-
alert.mkv
```

3. Check the path of your video.

```
ls
```

4. To upload the video for further analysis, first you would have to upload the video file to your loT Edge device through *scp* command.

```
scp <path_to_your_video> <admin_username>@<public_ip_address>:

mslearn@Azure:~$ ls
clouddrive scenario2-employ-safety.mkv
mslearn@Azure:~$ pwd
/home/mslearn
mslearn@Azure:~$ scp scenario2-employ-safety.mkv azureuser@
scenario2-employ-safety.mkv
mslearn@Azure:~$
```

5. Then the video file would be copied to your edge device.

Copy the video file to RTSP simulator

1. Connect to virtual machine. Replace admin username and IP address of your virtual machine.

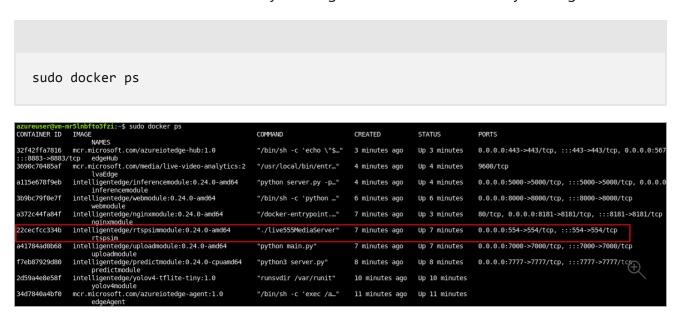
```
ssh <admin_username>@<public_ip_address>
```

2. Check the video you just uploaded on your virtual machine that running as an edge device.

```
ls
```

```
slearn@Azure:~$ ssh azureuser@
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1047-azure x86 64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
  Management:
                   https://ubuntu.com/advantage
 System information disabled due to load higher than 1.0
6 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable
New release '20.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Tue May 25 14:26:58 2021 from 20.86.157.130
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
azureuser@vm-mr5lnbfto3fzi:~$ ls
scenario2-employ-safety.mkv
azureuser@vm-mr5lnbfto3fzi:~$
```

3. There would be an RTSP simulator container installed on your edge device. You can first check whether the container exists by running the command below on your edge device:



4. Since the RTSP simulator would only host the video in the specific location in its container. So you would have to put your video file into the container of the RTSP simulator. On your loT Edge device, you can copy the video file you just upload into the RTSP simulator container through *docker cp* command.

```
sudo docker cp <path to your video on edge> rtspsim:/live/mediaServer/media/

2d59a4e8e58f intelligentedge/yolov4-tflite-tiny:1.0 "runsvdir /var/runit" 10 minutes ago Up 10
yolov4module

34d7840a4bf0 mcr.microsoft.com/azureiotedge-agent:1.0 "/bin/sh -c 'exec /a..." 11 minutes ago
edgeAgent

azureuser@vm-mr5lnbfto3fzi:~$ sudo docker cp scenario2-employ-safety.mkv rtspsim:/live/mediaServer/media/
azureuser@vm-mr5lnbfto3fzi:~$
```

5. The video would then be copied into the RTSP simulator container.

Analyze the RTSP stream of your video

After uploading the video to RTSP simulator, you can access the RTSP stream of your video through *rtsp://rtspsim:554/media/<video_name>*.

Make a note of RTSP URL. For this example, it will be:

rtsp://rtspsim:554/media/scenario4-empty-shelf-alert.mkv

Next unit: How to deploy your solution

