

### **Argus Box AWS Configuration Steps**

1. Create a Thing for the Argus Box in AWS IoT core and download the AWS IoT Python SDK alongside the certificates.
2. Run the start.sh script on the Argus Box to install the SDK files and establish MQTT communication with AWS IoT.
3. Update the pubsub.py file in the SDK to send Argus Box status to the “device/smartsafe/status” topic in AWS IoT (time, camera states, last opened, etc.).
4. Create an s3 bucket to store data sent from the Argus Box.
5. Create a Lambda function that processes the raw data the device sends by calculating the duration for which the safe was last accessed and storing the raw data and processed data in the s3 bucket.
6. Give the Lambda function permission to put objects in the s3 bucket through IAM roles.
7. Create a rule that sends the data received by the “device/smartsafe/status” topic to the Lambda function created in the previous step.
8. In the AWS IAM, create a user from the Argus Box and Assign the Argus Box user an access key.
9. Permit the user to access the s3 buckets.
10. Install AWS CLI on the Argus Box and log into AWS using the access key and the secret key.
11. Install the boto3 library on the Argus Box and use the boto3 API to send videos recorded by the safe directly to the dedicated s3 bucket.
12. Organize the video files into subfolders for each camera when sending the videos.