**ASA on the edge!**

**1:1 by Pawel :)**

Go to portal.azure.com and create virtual machine in dedicated RG. It doesn’t has to be big or expensive. Standard\_D2s\_v2 is enough

Connect to it using terminal

Install docker:

sudo apt-get remove docker docker-engine docker.io containerd runc

sudo apt-get update

sudo apt-get install \

apt-transport-https \

ca-certificates \

curl \

gnupg-agent \

software-properties-common

Add Docker official GPG key:

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

Setup stable repositiry:

sudo add-apt-repository \

"deb [arch=amd64] https://download.docker.com/linux/ubuntu \

$(lsb\_release -cs) \

stable"

Install engine:

sudo apt-get update

sudo apt-get install docker-ce docker-ce-cli containerd.io

Check:)

sudo docker run docker/whalesay cowsay Azure rox AWS sox!

**Install Edge framework on our VM:**

curl https://packages.microsoft.com/config/ubuntu/18.04/multiarch/prod.list > ./microsoft-prod.list

sudo cp ./microsoft-prod.list /etc/apt/sources.list.d/

curl https://packages.microsoft.com/keys/microsoft.asc | gpg --dearmor > microsoft.gpg

sudo cp ./microsoft.gpg /etc/apt/trusted.gpg.d/

Install Moby

sudo apt-get update

sudo apt-get install moby-engine

Install IoT edge security deamon

sudo apt-get update

sudo apt-get install iotedge

Configure IoT Edge

sudo nano /etc/iotedge/config.yaml

CTRL + X, Y, Enter

sudo systemctl restart iotedge

Config Routing on Azure Edge from portal:

To upstream:

FROM /messages/modules/moduleName/\* INTO $upstream

From one module to another:

FROM /messages/modules/moduleName/\* INTO BrokeredEndpoint("/modules/moduleName/inputs/inputName”)

iotedge logs <container name>

Received message: SequenceNumber:463 Body:{"machine":{"temperature":30.509116479199893,"pressure":2.0833170672506207},"ambient":{"temperature":21.325271651533093,"humidity":26},"timeCreated":"2020-12-09T10:59:49.0489849Z"}