Section 0

## Step 0.2 - Login to the Azure CLI

**az login**

**az account list**

**az account set --subscription <YOUR SUB ID>**

## Step 0.3 - Create docker hosts with Azure Virtual Machines – WINDOWS USERS USE GIT BASH

**git clone https://github.com/billpratt/docker-azure-workshop.git**

**cd docker-azure-workshop/deployment**

**sh ./deploy.sh**

Verify VMs created

**az vm list --resource-group dockerswarm --output table --show-details**

# **Section 2: Configure Swarm Mode**

## \*Step 2.1 - Create a Manager node

SSH into swarm leader

**ssh sysadmin@IP**

Initialize Docker Swarm on swarm-leader

**docker swarm init**

Verify swarm created

**docker info**

## \*Step 2.2 - Join Worker nodes to the Swarm

## SSH into swarm-node-1 and swarm-node-2

**ssh sysadmin@IP**

## If you forgot the swarm join command, on swarm-leader type

## docker swarm join-token worker

Paste swarm join command into swarm-node1 and 2

**docker swarm join \ --token SWMTKN-1-1wxyoueqgpcrc4xk2t3ec7n1poy75g4kowmwz64p7ulqx611ih-68pazn0mj8p4p4lnuf4ctp8xy \ 10.0.0.5:2377**

Lets verify swarm workers have joined the swarm

**docker node ls**

# **Section 3: Deploy applications across multiple hosts**

**perform from swarm-leader.**

Create **pet-web-app**

**docker service create --replicas 1 --name pet-web-app --publish 80:5000 chrch/docker-pets**

Verify

**docker service ls**

## Step 3.2 - Scale the app

**docker service update --replicas 7 pet-web-app**

Verify

**docker service ps pet-web-app**

## Step 3.3 - Access the app from the browser

Get public IP of swarm-leader

**az vm list --resource-group dockerswarm --output table --show-details**

## Copy/paste in browser and refresh

## Step 3.4 - Bring a node down for maintenance and add it back into the swarm

**docker node ls**

Go to swarm-node-1 and see what containers are running

## docker ps

## Jump back to swarm-leader and drain

**docker node update --availability drain IP OF SWARM-NODE-1**

Verify replicas not on node 1

**docker ps**

# **Cleaning Up**

**docker service rm pet-web-app**

**docker ps**

**docker swarm leave --force**