# Create Azure Virtual Machine Scale Set

# With Scheduling (Portal)

# (LAB-103-02-06)

## Part A: Register Microsoft Insight

1. From the Azure Portal, go to the left menu, select All Services.
2. Search "***Subscriptions***", under all services
3. Select the "***Subscriptions***"
4. Select your default subscriptions
5. Under settings, select "Resource Providers"
6. Search "***microsoft.insight***"
7. Click Register and the status will switch from NotRegistered to Registering.

   **Note**: It tales approx. 5-15 minutes, refresh and see if it's registered.

## Part B: Create Azure VM Scale Set

1. Click the "***Create a Resource***" link in the left-hand navigation bar
2. Search for "***Virtual Machine Scale Set***" from search option
3. From the search results, select "***Virtual Machine Scale Set***"
4. In the Virtual Machine Scale Set panel, select "***Create***"
5. You will be required to fill in specific information regarding your virtual machine, including:
   a. Virtual machine scale set name: Provide scale set name. "***ScaleSet1030206***"
   b. Operating system disk image:
      i. Select "***Browse all image ….***"
      ii. Select "***Compute***"
      iii. Search "***Windows Server 2019 Datacenter***"
      iv. Select "***Windows Server 2019 Datacenter [Microsoft]***"

c. Subscription: Select default subscription group

d. Resource Group: Create the new resource group. "***RG-103-02-06***"

e. Location: Select region **"Western Europe"**

f. Availability zone: Dropdown & Select "***Zone-1***" & "***Zone-2***"

g. Username: Provide username

h. Password: Provide password

i. Instance count: Provide no. as "***1***"

j. Instance size:

   i. Select "Search"
   ii. Select "*Appropriate size for the virtual machine*" Example "***DS1 v2***"

k. Deploy as low priority: Select "***No***"

l. Autoscale: Select "***Disabled***"

m. Choose Load balancing options: Select "***None***"

n. Virtual network: Select "***Create New***". It will open new Windows. In the name provide virtual network name "***ScaleSetVNeT***". (leave the default settings of address space & subnets) & select "OK".

o. Public IP address per instance: Select "***On***"

## Part C: Create an Auto Scale Setting based on schedule

1. From the Azure Portal, go to the left menu, select Resource Groups.
2. Select the Resource Group, "***RG-103-02-06***"
3. Select the Virtual Machine Scale Set "***ScaleSet1030206***"
4. Select the Scaling
5. On the autoscale setting, click the **Enable Autoscale** button

6. You will be required to fill in specific information regarding your autoscale:

    b. Autoscale setting name: Provide an autoscale set **Name**

    c. Click on the **Add a scale condition** link under the default profile.

    d. Scale-Out Conditions

        i. Edit the **Name** of this profile to be Scale Out [Adding VM]

        ii. Scale Mode: Select "***Scale to a specific instance count***"

        iii. Instance Count: Provide count as "***2***"

        iv. Schedule: Select "***Specify start/ end days"***

        v. Timezone: Select your "***local timezone"***

        vi. Start Date: Select "***today's date"***

        vii. Start Time: Provide "***start time"***
        **Info**: Provide time in hh:mm:ss am/pm

        viii. End Date: Select "***today's date"***

        ix. End Time: Provide "***end time"***
        **Info**: Provide time in hh:mm:ss am/pm, with 10 mnts. gap between start & end time

    e. Scale-In Conditions

        i. Edit the **Name** of this profile to be Scale-In [Removing VM]

        ii. Scale Mode: Select "***Scale to a specific instance count***"

        iii. Instance Count: Provide count as "***1***"

        iv. Schedule: Select "***Specify start/ end days"***

        v. Timezone: Select your "***local timezone"***

        vi. Start Date: Select "***today's date"***

        vii. Start Time: Provide "***start time"***
        **Info**: Provide time in hh:mm:ss am/pm, with 10 mnts. gap between end time of Scale-Out [Step d.ix]

viii. End Date: Select "***today's date"***

ix. End Time: Provide "***end time"***
**Info**: Provide time in hh:mm:ss am/pm, with 10 mnts. gap between start & end time

f. Delete the default profile

g. Press "***Save***"

## Part D: Observe the VM Status

1. From the Azure Portal, go to the left menu, select Resource Groups.
2. Select the Resource Group, "***RG-103-02-06***"
3. Select the Virtual Machine Scale Set "***ScaleSet1030206***"
4. Select the Instances to observe the Virtual machine running at the during the
   a. Scale-Out Start & End Time [Part B, step 6.d]
   b. Scale-In Start & End Time [Part B, step 6.e]