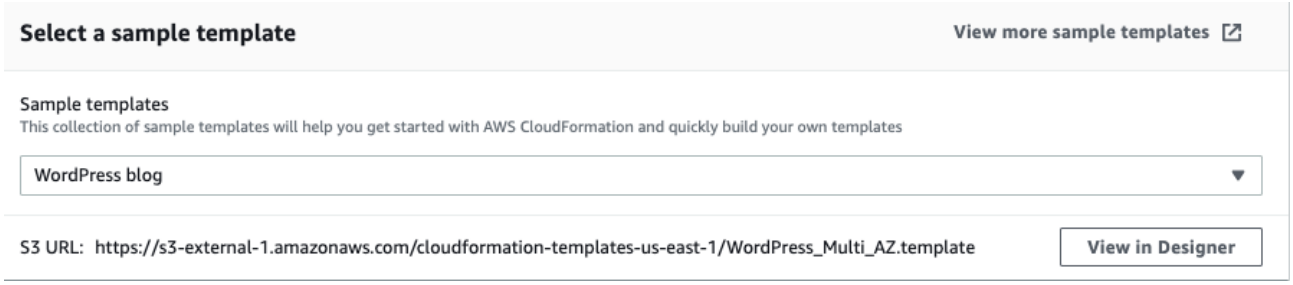
Set up WordPress Instance for Your Organization

This section will guide you to:

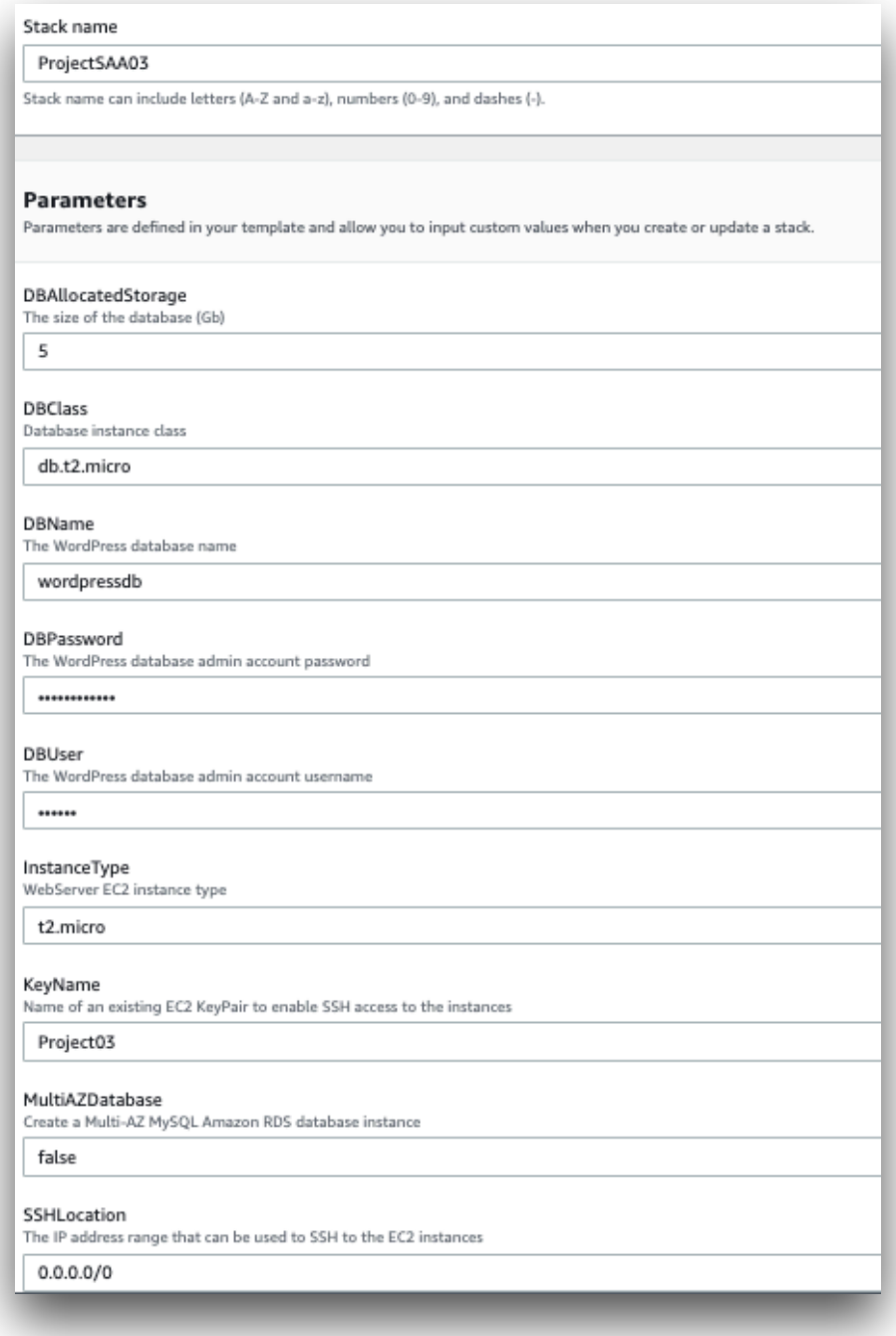
- Create a CloudFormation new stack
- Create an AMI of the WordPress instance
- Configure Auto Scaling to launch a new WordPress instance
- Configure the new WordPress instance to shut down automatically

Step 1: Create a CloudFormation new stack

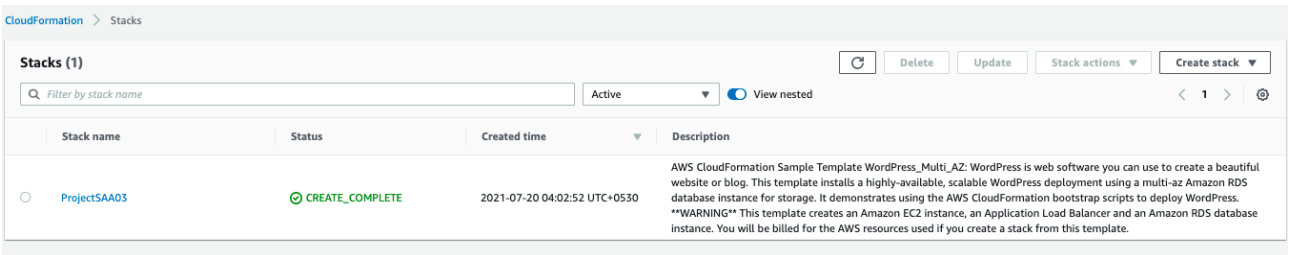
- From the EC2 dashboard, select **CloudFormation**
- Select **Create New Stack**
- From the **Choose a template** section, choose **Select a sample template**
- From the drop-down, choose **WordPress blog,** and then click on the **Next** button



- Enter a name in the **Stack Name** field
- Change the **Instance Type** to **T2.micro**
- In the **KeyName** section, select a key, and then click on the **Next** button

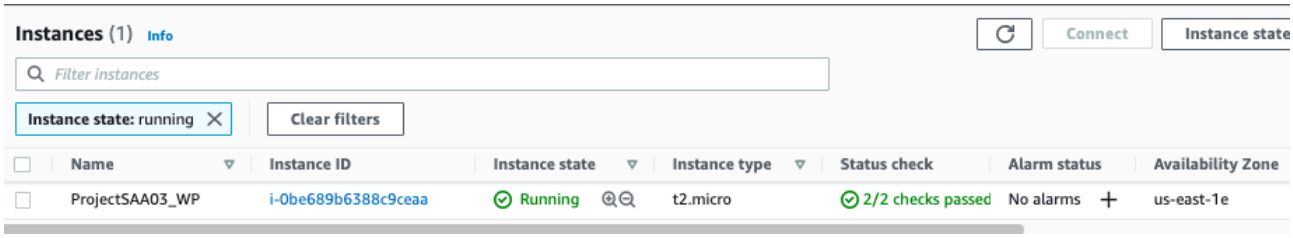


- Give your instance a meaningful tag name, and then click on the **Next** button
- Review the settings, and then click on the **Create** button
- Wait until the status of the stack changes from **Pending** to **CREATE_COMPLETED**



Step 2: Create an AMI of the WordPress instance

- Switch to the **EC2 dashboard** and verify that your new instance is available for use

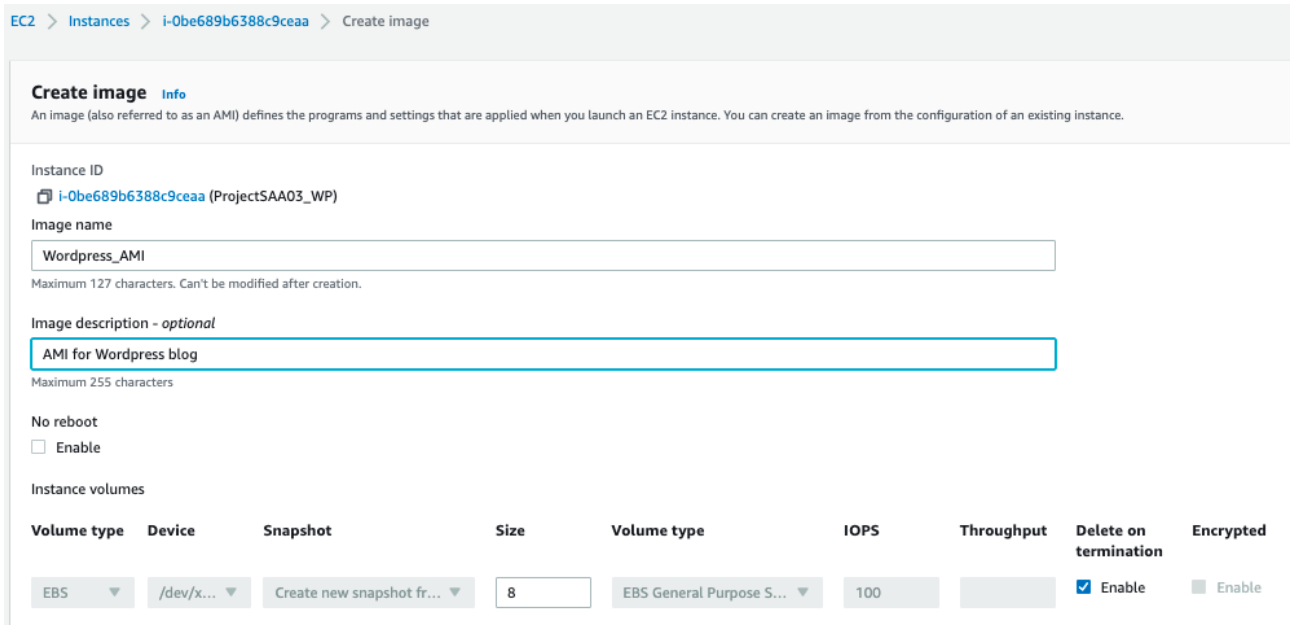


- Select the new instance and click on the **Actions** button

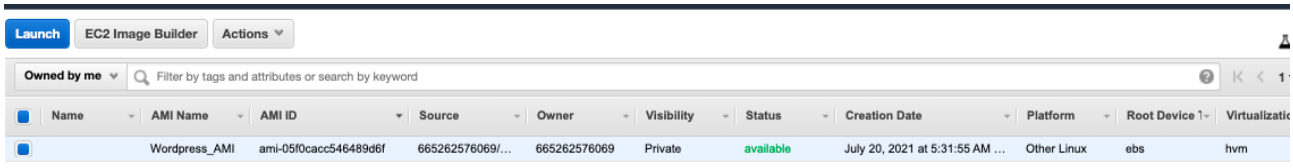
- Select the **Image** option

- Click on the **Create Image** button

- Enter an **Image Name** and **Image description**, and then click on the **Create Image** button



- Switch to the **AMI dashboard** and wait until the status of your new AMI changes from **pending** to **available**



Step 3: Configure Auto Scaling to launch a new WordPress instance

- Switch to the **Auto Scaling Groups** dashboard, and then click on the **Create Auto Scaling Group** button

- Click on the **Create launch configuration** button

- On the **Choose AMI** page, click on the **My AMIs** button, and then select your newly created AMI

- On the **Choose Instance Type** page, select **T2.micro,** and then click on **Next: Configure Details**

- Enter a suitable **Name** for the launch configuration, and then click on **Next: Add Storage**

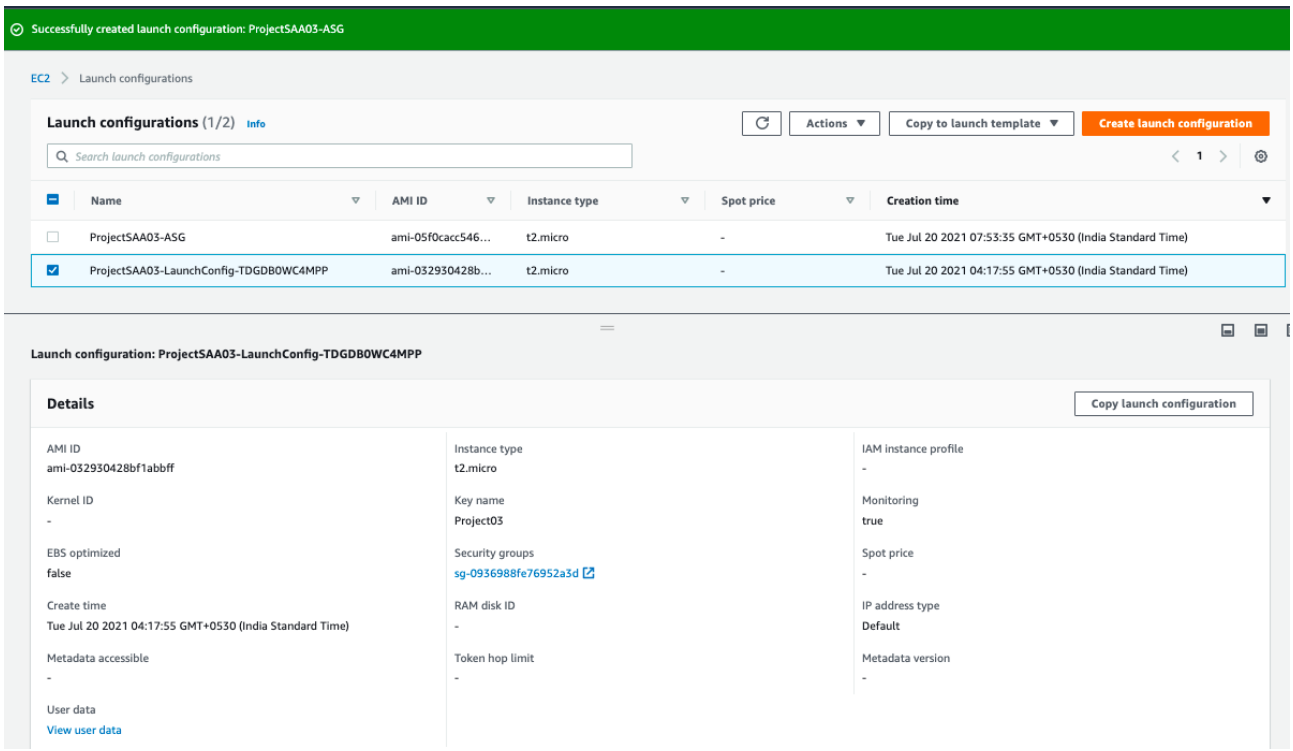
- Click on **Next: Configure Security Group**

- Choose a suitable Security Group or select the Security Group that was created as part of your CloudFormation stack

- Click on the **Review** button

- Review the settings, and then click on **Create launch configuration**

- Select your key, and then click on **Create launch configuration**



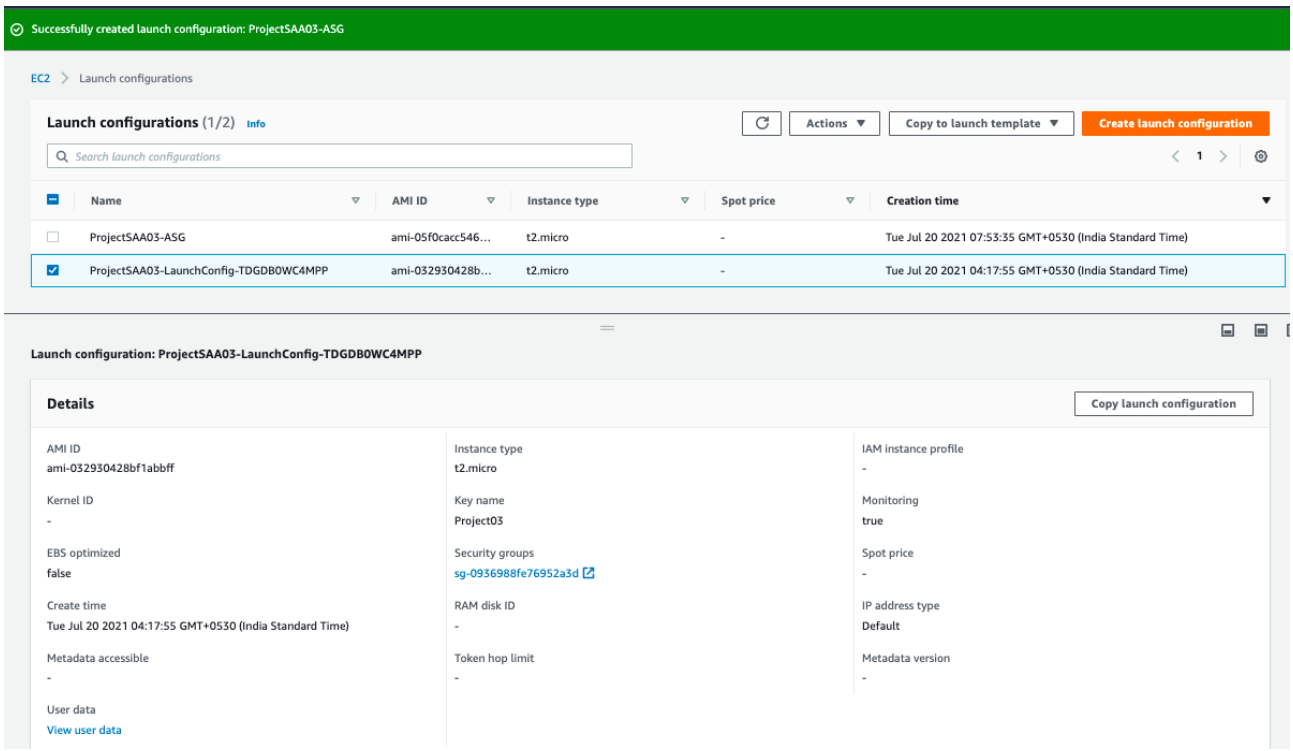
- You can now use the new launch configuration to create a new WordPress instance during the working hours (9 AM - 6 PM).

Step 4: Configure the new WordPress instance to shut down automatically

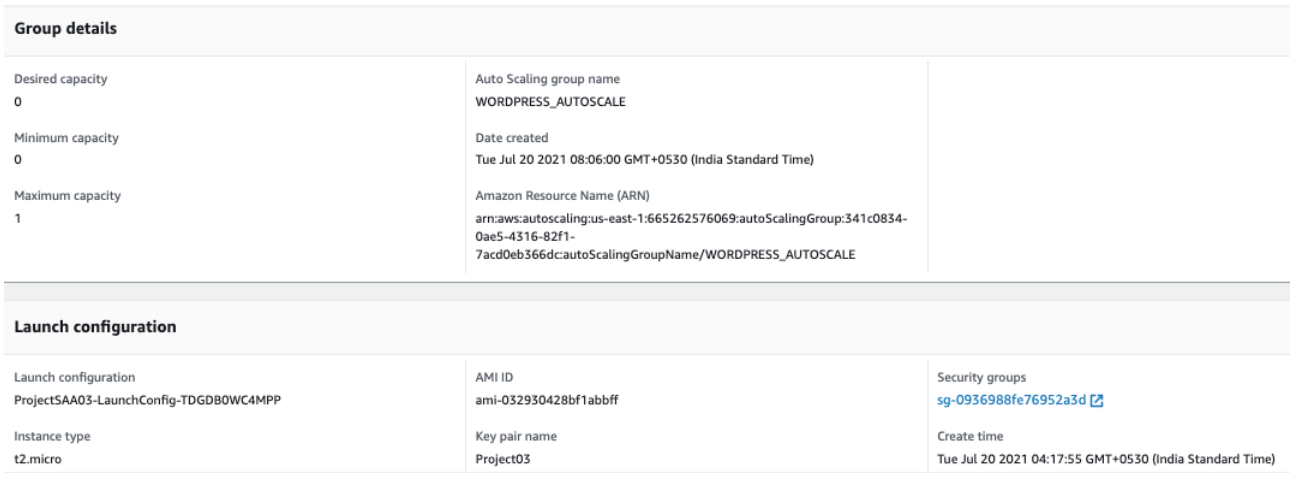
- Click on **Create Auto Scaling group**

- Enter a **Group Name** and set the **Group Size** as **zero**

- Select a subnet where you want to create the new instance



- Select **Keep this group at its initial size**
- Click on **Next: Configure Notifications**
- Click on **Next: Configure Tags**
- Enter suitable tags, and then click on **Review**
- Review the settings, and then click on **Create Auto Scaling group**
- Click on **View your Auto Scaling groups** and select the new group
- Click on **Actions,** select **Edit,** and then set the **Desired** value to **0**, **Min** value to **0**, and **Max** value to **1**

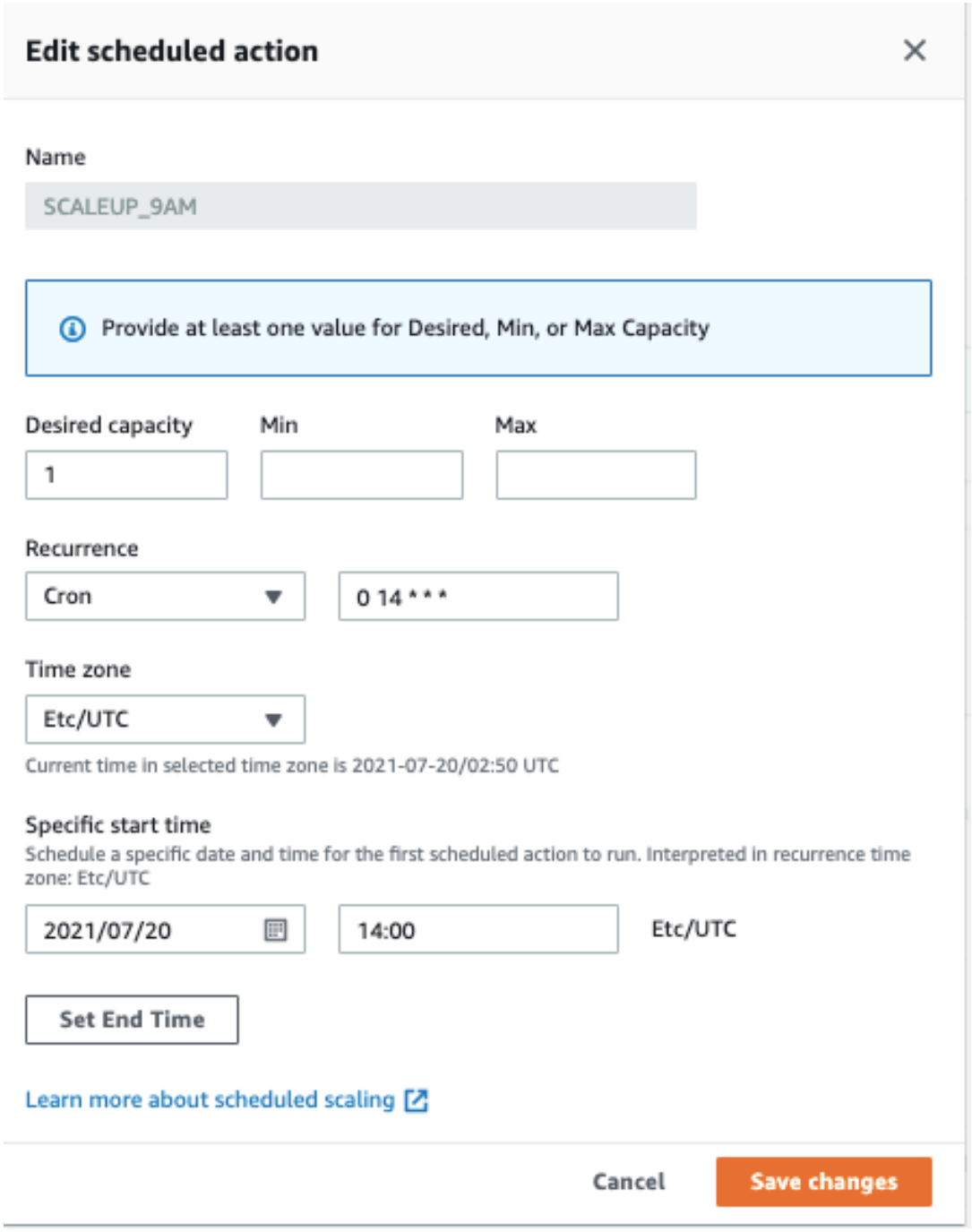


- Click on the **Scheduled Actions** tab, and then click on **Create Scheduled Action** to create the scheduled actions

- Enter a **Name**, for example, **SCALEUP_9AM**, set the **Desired Capacity** as **one**, and then set the time when you want the job to run

- The time is in the **UTC** format, so you need to set it to the **UTC** equivalent of 9 AM for your time zone.

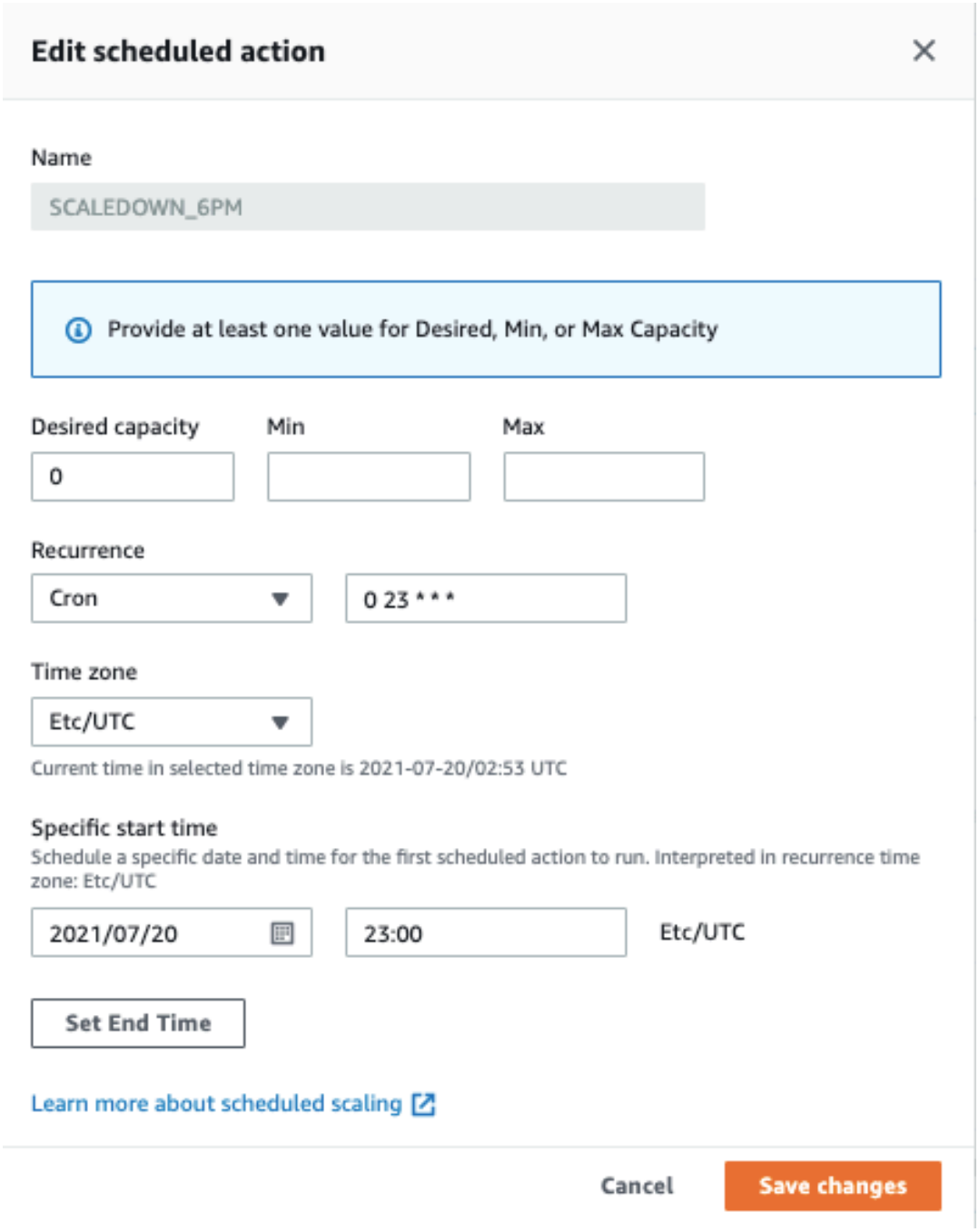
- Once complete, click on the **Create** button



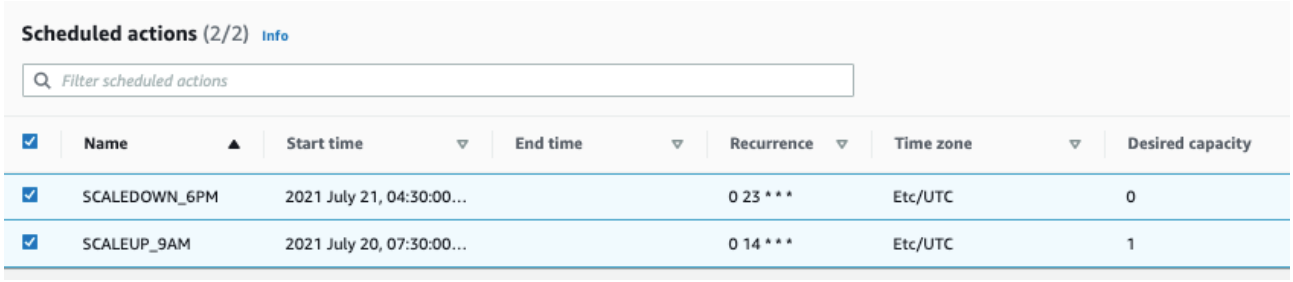
- Enter a **Name**, for example, **SCALEDOWN_6PM**, set the **Desired Capacity** as **zero**, and then set the time when you want the job to run

- The time is in the **UTC** format, so you need to set it to the **UTC** equivalent of 6 PM for your time zone.

- Once complete, click on the **Create** button



- Verify that the actions have been created successfully


Scheduled actions (2/2) Info
Filter scheduled actions
Name
Start time
End time
Recurrence
Time zone
Desired capacity
SCALEDOWN_6PM
2021 July 21, 04:30:00...
0 23 * * *
Etc/UTC
0
SCALEUP_9AM
2021 July 20, 07:30:00...
0 14 * * *
Etc/UTC
1