Heaven Classics successfully creates an EC2 Server Instance for Windows 2012 Server. After launching the instance on the server, the next step was to monitor the operations.  
Monitoring is important to keep an eye on the performance of an EC2 instance. It helps gather data from all parts and is useful for debugging failure.  
The monitoring team at Heaven Classics started monitoring activities using the CloudWatch Service in the AWS Management Console. The Heaven Classics support team were required to meet the following objectives:

1. Check and observe the CPU utilization graph for the EC2 instance
2. Create and configure a CloudWatch alarm that sends an email notification to HCMonitor@HeavenClassics.com if the CPU utilization goes below the threshold of 3%, consecutively three times for five minutes
3. Create an IAM group named Administrator Group and attach the full administrator access policy to the group
4. Create a user for an employee of the company who requires administrator access to the company's AWS account, and then add the user to the Administrator Group.

Solution:

PART 1: Created EC2 Instance for Windows 2021 Server

Created EC2 instance by selecting AMI as Microsoft Windows Server 2021 R2 Base. And tested using RDP.

Note: Screenshots for the above is attached to Screenshot tab by name: Part 1 - HeavenClassics-EC2 Instance-Window Server

Soure code-Access the launched instance via RDP attached to Source Code tab.

PART 2: CloudWatch Monitoring

1. Created the Cloudwatch dashboard by the following steps:

Name> Add Metric>Select EC2>Select the instance created for CPU Utilization and Save.

PART 3: Created Alarm

1. Created Alarm for CPU utilization goes below the threshold of 3%, consecutively three times for five minutes
2. Also created the topic for SNS while creating alarm for email: [HCMonitor@HeavenClassics.com](mailto:HCMonitor@HeavenClassics.com)
3. The Alarm shows pending confirmation for the Alarm as the Email Endpoint needs to be confirmed.

Note: Screenshots for the above is attached to Screenshot tab by name: Part 2 & 3 - CloudWatch Monitoring and Alarm Setup- Heaven Classics

PART 4: Created IAM Group & User

1. Created an IAM group named as Administrator Group and attach the full administrator access policy to the group for IAM.
2. Created user for an employee of the company who requires administrator access to the company's AWS account, and added him to the Administrator Group.

Note: Screenshots for the above is attached to Screenshot tab by name: PART 4-Created IAM Group & User