CloudWatch

- CloudWatch provides metrics for every service in AWS
- Metric is a Variable to monitor (CPU Utilization, Network IN...)
- Metrics have timestamps
- Can create CloudWatch Dashboards of Metrics

Important Metrics:

- **EC2 instances**: CPU Utilization, Status Checks, Network inner instance or out instance(not RAM)
- Default Metrics every 5 minutes
- Option for Detailed Monitoring (\$\$\$): metrics every 1 Minute
- **EBS Volumes**: Disk Read /Writes
- **S3 Buckets:** BucketSizeBytes, NumberOfObjects, AllRequests
- **Billing:** Total Estimated charge (only in US-east-1)

Note: Before you can create a billing alarm, you must **enable billing alerts** in your account, or in the **master/payer account** if you are using consolidated billing. For more information, see **Enabling Billing Alerts**.

- Service limits: How much you have been using a services API
- Custom metrics: Push your own Metrics

Amazon CloudWatch Alarm

- Alarm are used to Trigger Notification for any Metrics
 Alarm Actions:
 - Auto Scaling: increased or Decrease EC2 instances "Desired" Count
 - EC2 Actions: Stop, Terminate, Reboot, or Recover and EC2 instance
 - SNS notifications: Send a notification into an SNS topic(for ex. EC2 used above 90 % then send Mail)
 - Various options (Sampling, %, Max, Min, etc...)

- Can Choose the period on which to Evaluate an alarm
- Example: Create a billing alarm on the CloudWatch Billing Metric

o Alarm States: Ok, Insufficient_DATA, ALARM

@ Pynakumi a Pynakumi

github.com/pvnakum7