**Monitoring EC2**

**Service Overview**

*Monitoring is an important part of maintaining the reliability, availability, and performance of your Amazon Elastic Compute Cloud (Amazon EC2) instances and your AWS solutions. You can monitor your instances using Amazon CloudWatch, which collects and processes raw data from Amazon EC2 into readable, near real-time metrics. These statistics are recorded for a period of 15 months, so that you can access historical information and gain a better perspective on how your web application or service is performing.*

**Use cases / Considerations**

*You could collect following EC2 metrics:*

* *CPUUtilization*
* *DiskReadOps*
* *DiskWriteOps*
* *DiskReadBytes*
* *DiskWriteBytes*
* *NetworkIn*
* *NetworkOut*
* *NetworkPacketsIn*
* *NetworkPacketsOut*
* *MetadataNoToken*

[*https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/viewing\_metrics\_with\_cloudwatch.html#ec2-cloudwatch-metrics*](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/viewing_metrics_with_cloudwatch.html#ec2-cloudwatch-metrics)

*You can use the following dimensions to refine the metrics listed in the previous list:*

[*https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/viewing\_metrics\_with\_cloudwatch.html#ec2-cloudwatch-dimensions*](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/viewing_metrics_with_cloudwatch.html#ec2-cloudwatch-dimensions)

**Cautions**

[*EC2 Resource Limits*](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-resource-limits.html)

**Pricing considerations**

[*Amazon CloudWatch Pricing*](https://aws.amazon.com/cloudwatch/pricing/)

**More details**

* [*EC2 Monitoring Overview*](https://www.youtube.com/watch?v=Z0agxlUrwxI)*(Video)*
* [*EC2 Monitoring using CloudWatch Agent*](https://www.youtube.com/watch?v=vAnIhIwE5hY) *(Video)*
* [*EC2 Monitoring*](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/monitoring_ec2.html)
* [*Monitoring Best Practices*](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/monitoring_best_practices.html)