

Big Data on Amazon Web Services

With the number of users, devices, and companies in the global business environment of today, it is becoming more imperative that businesses invest in big data solutions for their large amounts of information. Amazon is not just a great place to do online shopping, but they also have a subsidiary called Amazon Web Services (AWS) that offers many cloud services. This article, while certainly not comprehensive of the more than 50 services, will feature a few of the offerings in AWS to collect, store, process, analyze, and visualize big data.

[Amazon Snowball](#) is a data transport tool that allows for large amounts of data to be transferred in and out of the AWS cloud.

[Amazon Kinesis](#) enables the capturing and storing of large amounts of streaming data from hundreds of thousands of sources like social media and websites in real time.

[Amazon Lambda](#) allows uploading and running of code without having to provision or manage servers. After the code is uploaded, Lambda takes care of running and scaling the code so there is no need for administration.

[Amazon EMR](#) uses frameworks such as Hadoop to process huge amounts of data across a scalable cluster of instances.

[Amazon Machine Learning](#) is a service that provides visualization tools and wizards to guide developers through the process of creating machine learning models without having to learn difficult algorithms and technology.

[Amazon Elastic Cloud Compute \(Amazon EC2\)](#) is a web service interface that provides a cloud computing platform to operate self-managed big data analytics applications in a secure environment.

[Amazon Redshift](#) is a data warehouse that allows for analyzing large data and is customizable as performance and capacity needs change.

[Amazon DynamoDB](#) is a fully-managed cloud based NoSQL database service that enables storage and retrieval of information that is wonderful for gaming, mobile, web, and other similar applications.

[Amazon QuickSight](#) is a cloud-powered business intelligence (BI) service that uses a calculation engine to build visualizations, perform ad hoc analyses, and create dashboards to share data.

There are many more tools available in AWS for Big Data. To learn more about these services and how they work together, go to the [AWS Big Data website](#) or read the [AWS whitepapers](#) on this subject. To learn more about all the AWS offerings and get help designing the right plan, go to the [AWS website](#).