Amazon Web Services

Technical Fundamentals

Amazon Elastic Block Store

Agenda : Elastic Block Store (EBS)

➢ **Revisiting Elastic Beanstalk**

➢ **Hands-On Lab**

- Create Standard Volume
- Create and delete snapshots
- Create Provisioned I/o Volume
- Assign volumes to servers
- Disassociate and Delete volumes

➢ **Free Lab**

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Elastic Block Store (EBS)

Amazon Elastic Block Store (Amazon EBS)

http://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/AmazonEBS.html

Amazon Elastic Block Store (Amazon EBS) provides block level storage volumes for use with EC2 instances. EBS volumes are highly available and reliable storage volumes that can be attached to any running instance that is in the same Availability Zone. EBS volumes that are attached to an EC2 instance are exposed as storage volumes that persist independently from the life of the instance. With Amazon EBS, you pay only for what you use. For more information about Amazon EBS pricing, see the Projecting Costs section of the Amazon Elastic Block Store page.

Amazon EBS is recommended when data changes frequently and requires long-term persistence. EBS volumes are particularly well-suited for use as the primary storage for file systems, databases, or for any applications that require fine granular updates and access to raw, unformatted, block-level storage. Amazon EBS is particularly helpful for database-style applications that frequently encounter many random reads and writes across the data set.

For simplified data encryption, you can launch your EBS volumes as encrypted volumes. Amazon EBS encryption offers you a simple encryption solution for your EBS volumes without the need for you to build, manage, and secure your own key management infrastructure. When you create an encrypted EBS volume and attach it to a supported instance type, data stored at rest on the volume, disk I/O, and snapshots created from the volume are all encrypted. The encryption occurs on the servers that hosts EC2 instances, providing encryption of data-in-transit from EC2 instances to EBS storage. For more information, see Amazon EBS Encryption.

Demo : Hands-On Lab EBS

Elastic Block Store (EBS)

Working with Amazon EBS

➢ **Working with EBS**

- Create Standard Volume
- Create and delete snapshots
- Create Provisioned I/o Volume
- Assign volumes to servers
- Disassociate and Delete volumes

Summary : Elastic Compute Cloud (EC2)

➢ **Revisiting EC2**

➢ **Hands-On Lab**

- – Launch an Instance
- – Decrypt Password and download RDP shortcut client
- – Connect to the EC2 instance
- – Terminate the Instance

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