AWS Developer Notes

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| Instance Volume Backed AMI | EBS Backed AMI |
| Cannot be stopped | Can be stopped |
| Can only be terminated or restarted | Instance data persisted on EBS |
| Slower to boot | Faster to boot |
| Data transferred from S3 on boot | Data stored in EBS |

AMI Visibility:

1. Public: Visible to everyone
2. Explicit: Visible to who you allow
3. Implicit: Private

AWS REST API:

Each AWS REST API request must be signed.

The AWS SDK is a code interface to the REST API.

Launch templates use versioning to differentiate changes in a single template.

An Auto Scaling Policy defines when an instance should scale up or scale down.

Simple Scaling Policy:

* Monitor attributes and perform action.
* One action per alarm.
* Scaling up and down requires two policies.

Step Scaling Policy:

* Define multiple actions per alarm.
* Continuously perform actions.

Target Tracking Scaling Policy:

* Define metric target.
* Auto Scaling up and down to achieve target.
* AWS recommended scaling policy.

Why not Instance Store?

* Data is gone if EC2 instance is stopped or terminated.
* Can`t move data off instance store volumes easily.
* Can`t create a data snapshot from instance store.

Elastic Block Store Volumes:

Can back up with snapshot.

Can detach and reuse.

EC2 instance can be stopped.

Independent from EC2 instance.