

EBS Hands On

(Cloud Storage, SAN)

Type of Storage

- DAS (Instance Store)
- NAS (EFS, Elastic File System) (File Storage)
- SAN (EBS, Elastic Block Store) (Block)
- Object Storage (S3, Simple Storage Service) (Object)

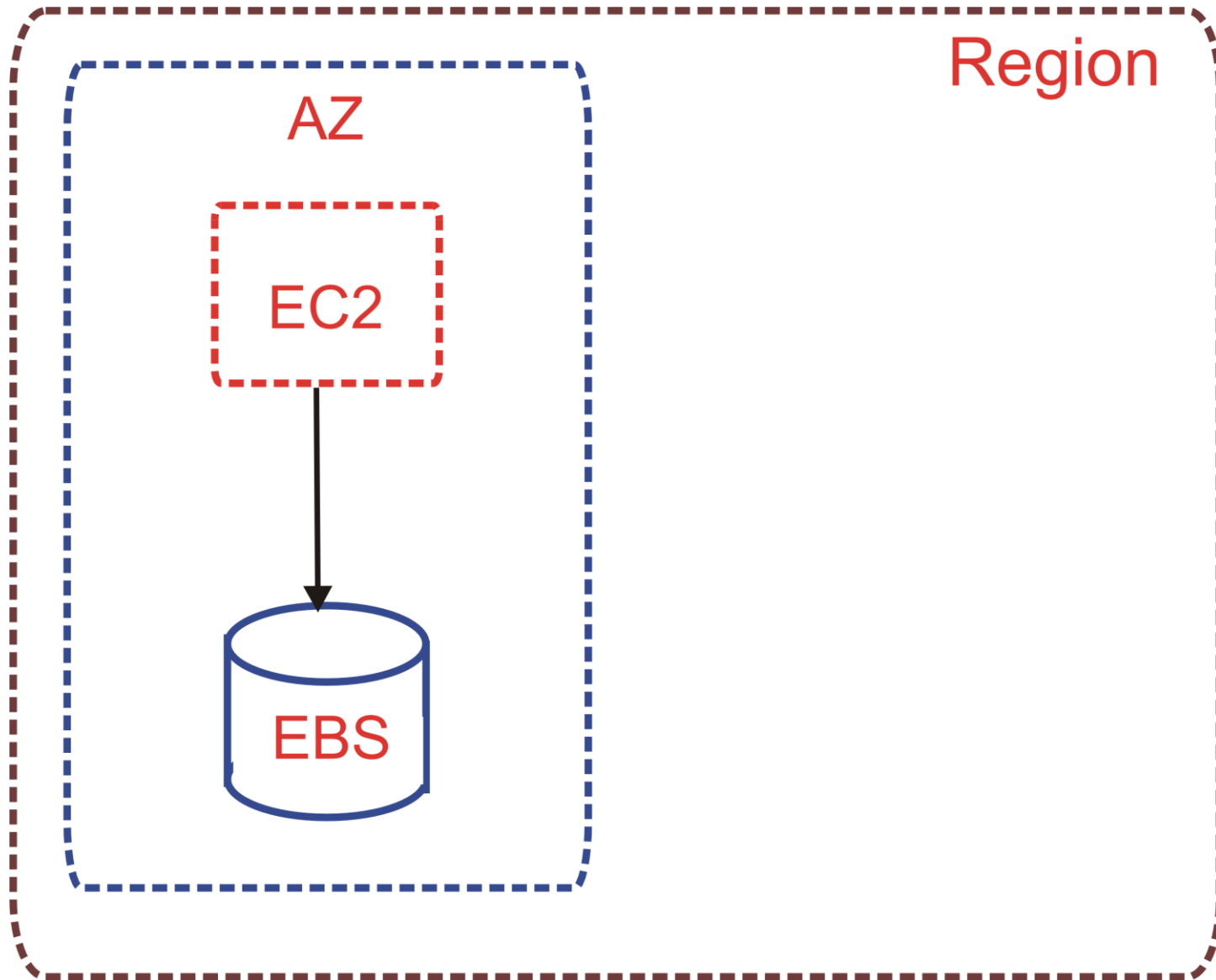
Storage Area Network (SAN)

The screenshot displays the Windows Computer Management console. The left-hand navigation pane shows the 'Storage' section expanded, with 'Disk Management' selected. The main pane is divided into two sections: a table of volumes at the top and a detailed view of the disks below.

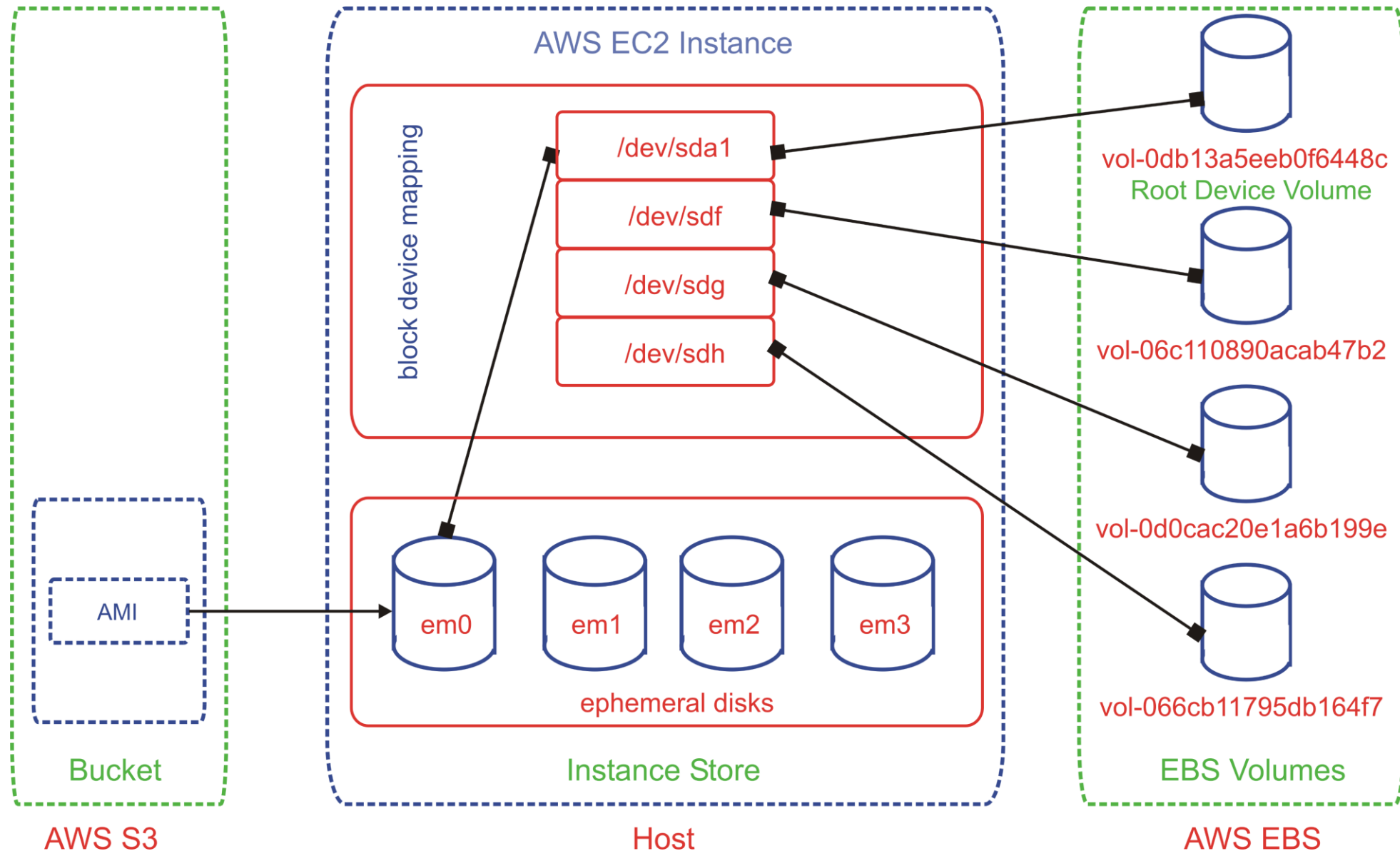
| Volume | Layout | Type | File System | Status |
|----------------------|--------|-------|-------------|--|
| (C:) | Simple | Basic | NTFS | Healthy (Boot, Page File, Crash Dump, Primary Partition) |
| CD_ROM (D:) | Simple | Basic | CDFS | Healthy (Primary Partition) |
| System Reserved (E:) | Simple | Basic | NTFS | Healthy (System, Active, Primary Partition) |

| Disk | Format | Size | Status | Partitions |
|--------|--------|----------|---------|--|
| Disk 0 | Basic | 20.00 GB | Online | System Reserved (E:): 100 MB NTFS, Healthy (System, Active) (C:): 19.90 GB NTFS, Healthy (Boot, Page File, Crash Dump, Primary Partition) |
| Disk 1 | Basic | 4.13 GB | Offline | 4.13 GB (unpartitioned) |

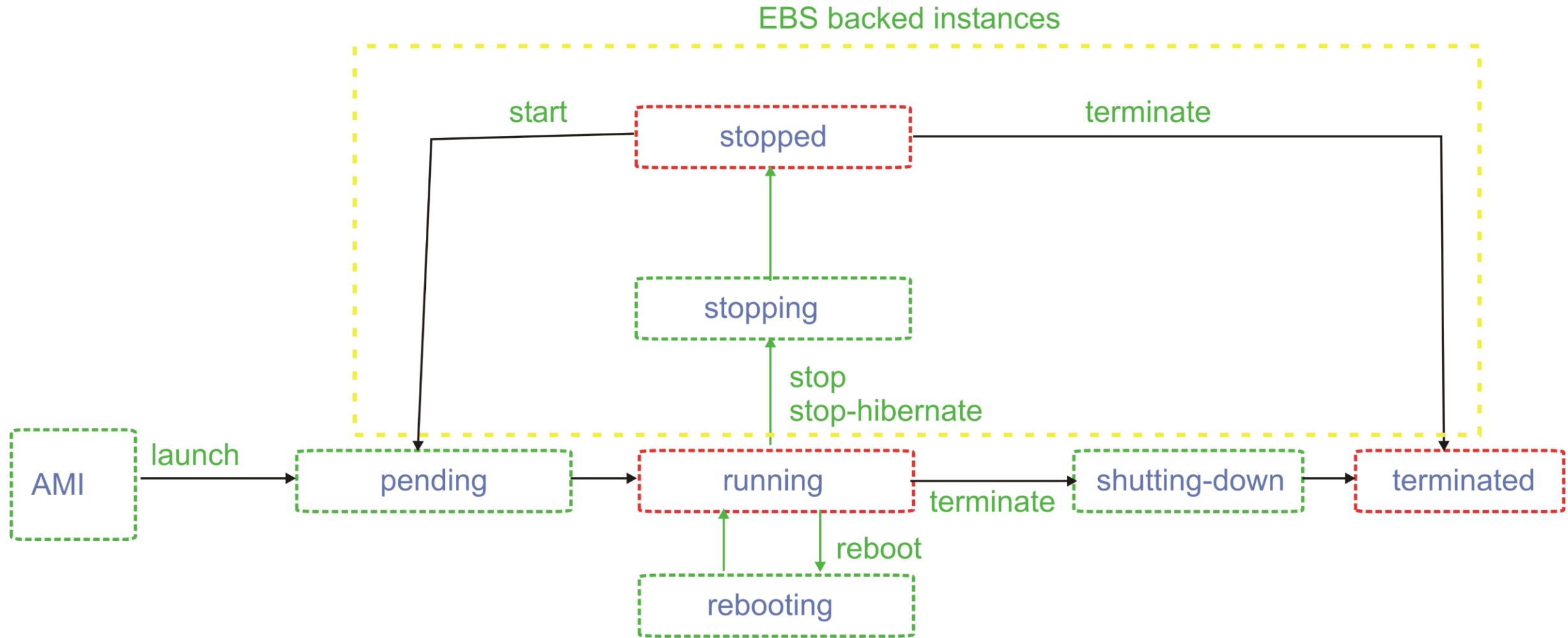
Elastic Block Store (EBS)



AWS EC2 Instance Using EBS/Instance Store



Elastic Block Store (EBS) Backed Instances

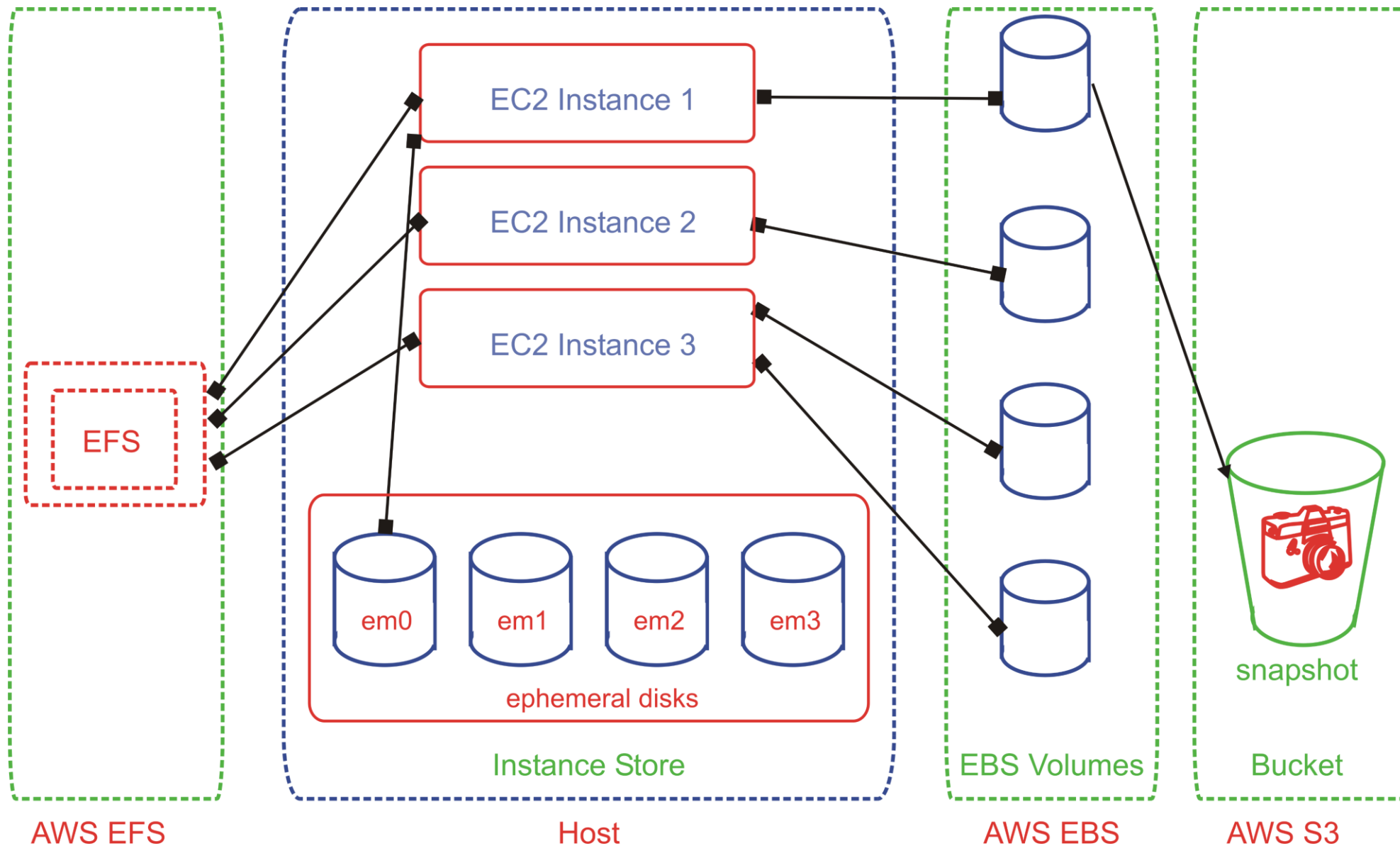


Elastic Block Store (EBS)



| | | | | | |
|--------------------|---|---|---|---|---|
| volume type | gp2 | io2 | io1 | st1 | sc1 |
| | General purpose SSD | Provisioned IOPS SSD | Provisioned IOPS SSD | Throughput optimized HDD | Cold HDD |
| volume size | 1 GiB - 16 TiB | 4 GiB - 16 TiB | 4 GiB - 16 TiB | 500 GiB - 16 TiB | 500 GiB - 16 TiB |
| durability | 99.8-99.9% durability (0.1-0.2 annual failure rate) | 99.999% durability (0.001% annual failure rate) | 99.8-99.9% durability (0.1-0.2 annual failure rate) | 99.8-99.9% durability (0.1-0.2 annual failure rate) | 99.8-99.9% durability (0.1-0.2 annual failure rate) |
| max IOPS/vol | 16000 | 64000 | 64000 | 500 | 250 |
| max throughput/vol | 250 MiB/s | 1000 MiB/s | 1000 MiB/s | 500 MiB/s | 250 MiB/s |
| multi attach | not supported | not supported | supported | not supported | not supported |

Attaching EBS With EC2 Instances



Elastic Block Store (EBS) Snapshot stored in S3

