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OUR ROOT LEVEL TRAINING WILL GIVE YOU BETTER GROWTH

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Our Vision:

To provide better training by full filing the requirements of our trainee.

Our Mission:

We always ensure to give practical based training. And we make the candidates to get good hands-on experience on any platform.

Philosophy:

Our Root Level Training Will give you Better Growth.

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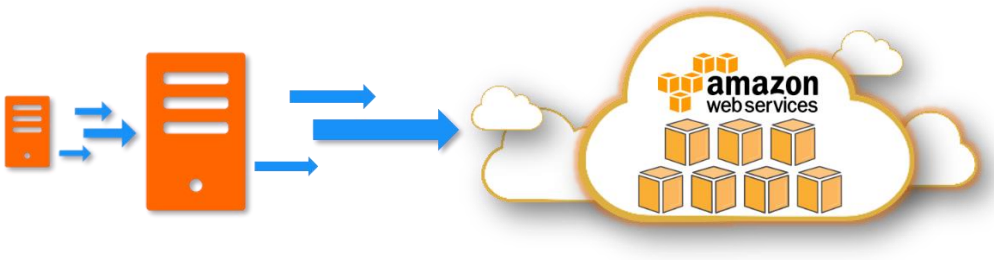
Migrate Your Existing OnPremise Workloads to Amazon EC2



1. Prerequisites

Create your own Virtual Network – VPC, Subnets, RouteRule, Internet Gateway
Create other infra resources such as load balancer, Target Groups for ALB, ELB

2. Export VM & Upload to S3

Depending on virtualization tool, use the appropriate procedure to export your VM into *.vmdk or *.ovf image. Upload the image to S3 Bucket and note down the bucket_name and vm_image_name.

3. Create IAM role

In IAM console, Create a Role in the name of “vmimport” with the permission of EC2fullaccess and S3fullaccess.

4. Create Trust Policy

Create below IAM trust policy (json format) by editing default in trusted entities.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": { "Service": "vmie.amazonaws.com" },
      "Action": "sts:AssumeRole",
      "Condition": {
        "StringEquals":{
          "sts:Externalid": "vmimport"
        }
      }
    }
  ]
}
```

5. Begin VM Image Import Task

The following command will begin the import of the VM Image.

Begin VM Import

```
aws ec2 import-image --description "centosv7" --disk-containers
Description="winos",Format="vmdk",UserBucket="{S3Bucket=mymigration,S3Key=vmdkfile/AWS-VM-disk001.vmdk}"
```

The expected output,


```
{
   "Description": "centosv7",
   "ImportTaskId": "import-ami-0d6db3a35d431e4e3",
   "Progress": "2",
   "SnapshotDetails": [
      {
         "DiskImageSize": 0.0,
         "Format": "VMDK",
         "UserBucket": {
            "S3Bucket": "n-backup",
            "S3Key": "VM-Import/winos-disk002.vmdk"
         }
      }
   ],
   "Status": "active",
   "StatusMessage": "pending"
}
```


Note down the ImportTaskId to check the progress of the import job.

Check status of VM Import Jobs

```
aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0d6db3a35d431e4e3"
```

Check VM Import Progress


```
# VM Image being updated to AMI
# aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0d6db3a35d431e4e3"
{
   "ImportImageTasks": [
      {
         "Description": "centosv7",
         "ImportTaskId": "import-ami-0d6db3a35d431e4e3",
         "Progress": "30",
         "SnapshotDetails": [
            {
               "Description": "centosv7",
               "DiskImageSize": 931182592.0,
               "Format": "VMDK",
               "Status": "completed",
               "UserBucket": {
                  "S3Bucket": "n-backup",
                  "S3Key": "VM-Import/vCentOS7-disk002.vmdk"
               }
            }
         ],
         "Status": "active",
         "StatusMessage": "updating"
      }
   ]
}
```

Stage-1: Pending

```
C:\Users\Administrator>aws ec2 import-image --description "winos" --disk-containers Description="winos",Format="vmdk",UserBucket="{S3Bucket=mymigration,S3Key=vmdkfile/A
WS-VM-disk001.vmdk}"
-------------------------------------------------
|                  ImportImage                  |
+---------------+-------------------------------+
|  Description  |  winos                        |
|  ImportTaskId |  import-ami-0f118dffcb5d744ea |
|  Progress     |  2                            |
|  Status       |  active                       |
|  StatusMessage|  pending                      |
+---------------+-------------------------------+
||              SnapshotDetails                ||
|+-----------------------------+--------------+|
||  DiskImageSize              |  0.0         ||
||  Format                     |  VMDK        ||
|+-----------------------------+--------------+|
|||              UserBucket                   |||
||+-----------+---------------------------------+|
|||  S3Bucket |  mymigration                    |||
|||  S3Key    |  vmdkfile/AWS-VM-disk001.vmdk   |||
||+-----------+---------------------------------+|

C:\Users\Administrator>
```

Stage-2: Converting

```
C:\Users\Administrator>aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0f118dffcb5d744ea"
-------------------------------------------------------
|              DescribeImportImageTasks               |
+-----------------------------------------------------+
||                ImportImageTasks                   ||
|+-----------------+---------------------------------+|
||  Description    |  winos                          ||
||  ImportTaskId   |  import-ami-0f118dffcb5d744ea    ||
||  Progress       |  28                             ||
||  Status         |  active                         ||
||  StatusMessage  |  converting                     ||
|+-----------------+---------------------------------+|
|||                SnapshotDetails                  |||
||+-----------------------+-------------------------+||
|||  Description          |  winos                  |||
|||  DiskImageSize        |  4507244544.0           |||
|||  Format               |  VMDK                   |||
|||  Status               |  active                 |||
||+-----------------------+-------------------------+||
||||                UserBucket                     ||||
|||+------------+----------------------------------+|||
||||  S3Bucket  |  mymigration                     ||||
||||  S3Key     |  vmdkfile/AWS-VM-disk001.vmdk    ||||
|||+------------+----------------------------------+|||
```

Stage-3: Updating

```
C:\Users\Administrator>aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0f118dffcb5d744ea"
-----------------------------------------------------
|            DescribeImportImageTasks               |
+---------------------------------------------------+
||               ImportImageTasks                  ||
|+----------------+--------------------------------+|
||  Description   |  winos                         ||
||  ImportTaskId  |  import-ami-0f118dffcb5d744ea  ||
||  Platform      |  Windows                       ||
||  Progress      |  41                            ||
||  Status        |  active                        ||
||  StatusMessage |  updating                      ||
|+----------------+--------------------------------+|
|||               SnapshotDetails                 |||
||+----------------------+-----------------------+||
|||  Description         |  winos                |||
|||  DiskImageSize       |  4507244544.0         |||
|||  Format              |  VMDK                 |||
|||  Status              |  completed            |||
||+----------------------+-----------------------+||
||||               UserBucket                     ||||
|||+-----------+--------------------------------+|||
||||  S3Bucket |  mymigration                    ||||
||||  S3Key    |  vmdkfile/AWS-VM-disk001.vmdk   ||||
|||+-----------+--------------------------------+|||
```

Stage-4: Booting

```
C:\Users\Administrator>aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0f118dffcb5d744ea"
-----------------------------------------------------
|            DescribeImportImageTasks               |
+---------------------------------------------------+
||               ImportImageTasks                  ||
|+----------------+--------------------------------+|
||  Architecture  |  x86_64                        ||
||  Description   |  winos                         ||
||  ImportTaskId  |  import-ami-0f118dffcb5d744ea  ||
||  LicenseType   |  AWS                           ||
||  Platform      |  Windows                       ||
||  Progress      |  58                            ||
||  Status        |  active                        ||
||  StatusMessage |  booting                       ||
|+----------------+--------------------------------+|
|||               SnapshotDetails                 |||
||+----------------------+-----------------------+||
|||  Description         |  winos                |||
|||  DeviceName          |  /dev/sda1            |||
|||  DiskImageSize       |  4507244544.0         |||
|||  Format              |  VMDK                 |||
|||  Status              |  completed            |||
||+----------------------+-----------------------+||
||||               UserBucket                     ||||
|||+-----------+--------------------------------+|||
||||  S3Bucket |  mymigration                    ||||
||||  S3Key    |  vmdkfile/AWS-VM-disk001.vmdk   ||||
|||+-----------+--------------------------------+|||
```

Stage-5: Booted

```
C:\Users\Administrator>aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0f118dffcb5d744ea"
-----------------------------------------------------
|            DescribeImportImageTasks               |
+---------------------------------------------------+
||                ImportImageTasks                 ||
|+----------------+--------------------------------+|
||  Architecture  |  x86_64                        ||
||  Description   |  winos                         ||
||  ImportTaskId  |  import-ami-0f118dffcb5d744ea  ||
||  LicenseType   |  AWS                           ||
||  Platform      |  Windows                       ||
||  Progress      |  73                            ||
||  Status        |  active                        ||
||  StatusMessage |  booted                        ||
|+----------------+--------------------------------+|
|||               SnapshotDetails                 |||
||+----------------------+-------------------------+||
|||  Description         |  winos                  |||
|||  DeviceName          |  /dev/sda1              |||
|||  DiskImageSize       |  4507244544.0           |||
|||  Format              |  VMDK                   |||
|||  Status              |  completed              |||
||+----------------------+-------------------------+||
||||               UserBucket                      ||||
|||+-----------+-----------------------------------+|||
||||  S3Bucket |  mymigration                      ||||
||||  S3Key    |  vmdkfile/AWS-VM-disk001.vmdk     ||||
|||+-----------+-----------------------------------+|||
```

Stage-6: Preparing AMI

```
C:\Users\Administrator>aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0f118dffcb5d744ea"
-----------------------------------------------------
|            DescribeImportImageTasks               |
+---------------------------------------------------+
||                ImportImageTasks                 ||
|+----------------+--------------------------------+|
||  Architecture  |  x86_64                        ||
||  Description   |  winos                         ||
||  ImageId       |  ami-09dd157dad590837e         ||
||  ImportTaskId  |  import-ami-0f118dffcb5d744ea  ||
||  LicenseType   |  AWS                           ||
||  Platform      |  Windows                       ||
||  Progress      |  86                            ||
||  Status        |  active                        ||
||  StatusMessage |  preparing ami                 ||
|+----------------+--------------------------------+|
|||               SnapshotDetails                 |||
||+-----------------+-----------------------------+||
|||  Description    |  winos                      |||
|||  DeviceName     |  /dev/sda1                  |||
|||  DiskImageSize  |  4507244544.0               |||
|||  Format         |  VMDK                       |||
|||  SnapshotId     |  snap-0543ae9b07d4c8ef2     |||
|||  Status         |  completed                  |||
||+-----------------+-----------------------------+||
||||               UserBucket                      ||||
|||+-----------+-----------------------------------+|||
||||  S3Bucket |  mymigration                      ||||
||||  S3Key    |  vmdkfile/AWS-VM-disk001.vmdk     ||||
|||+-----------+-----------------------------------+|||
```

Stage-7: Completed

```
C:\Users\Administrator>aws ec2 describe-import-image-tasks --import-task-ids "import-ami-0f118dffcb5d744ea"
-----------------------------------------------------
|            DescribeImportImageTasks               |
+---------------------------------------------------+
||                ImportImageTasks                 ||
|+---------------+---------------------------------+|
||  Architecture |  x86_64                         ||
||  Description  |  winos                          ||
||  ImageId      |  ami-09dd157dad590837e          ||
||  ImportTaskId |  import-ami-0f118dffcb5d744ea   ||
||  LicenseType  |  AWS                            ||
||  Platform     |  Windows                        ||
||  Status       |  completed                      ||
|+---------------+---------------------------------+|
|||               SnapshotDetails                ||||
||+-----------------+-----------------------------+||
|||  Description    |  winos                      |||
|||  DeviceName     |  /dev/sda1                  |||
|||  DiskImageSize  |  4507244544.0               |||
|||  Format         |  VMDK                       |||
|||  SnapshotId     |  snap-0543ae9b07d4c8ef2     |||
|||  Status         |  completed                  |||
||+-----------------+-----------------------------+||
||||                UserBucket                   ||||
|||+-----------+-------------------------------+|||
||||  S3Bucket |  mymigration                    ||||
||||  S3Key    |  vmdkfile/AWS-VM-disk001.vmdk   ||||
|||+-----------+-------------------------------+|||
```

6. Launch New EC2 by using our AMI

Now you get the AMI in your EC2 with concern snapshot with that AMI you can launch the new VM, you can login using the same username & password you used onpremise.

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