aws -export vm /import as an ami

**PREPARATION STEPS**

STEP-1

Download and install the aws cli

<https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>

STEP-2

Configure the AWS CLI

<https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-configure.html>

COMMANDS TO BE USED IN COMMAND PROMPT:

\* use “aws configure” in cmdprompt

\*and then follow the below steps

1)Create an user in IAM

2)set permission and give attach policies directly

3) attach AdministratorAccess and create the user

4)create an access key in user security credentials tab for cmdprompt in aws

\*and save the access key and and secret access key in notepad for future reference

\*copy and paste both the keys in command window when asked

And use your region in aws and json as output format

The aws cli is fully configured

STEP-3

Create an AWS Role for VM Importing

<https://docs.aws.amazon.com/vm-import/latest/userguide/required-permissions.html#vmimport-role>

**To create the service role**

1. Create a file named trust-policy.json on your computer. Add the following policy to the file:

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Principal": { "Service": "vmie.amazonaws.com" },

"Action": "sts:AssumeRole",

"Condition": {

"StringEquals":{

"sts:Externalid": "vmimport"

}

}

}

]

}

2)Use the [create-role](https://docs.aws.amazon.com/cli/latest/reference/iam/create-role.html) command to create a role named vmimport and grant VM Import/Export access to it. Ensure that you specify the full path to the location of the trust-policy.json file that you created in the previous step, and that you include the file:// prefix as shown the following example:

aws iam create-role --role-name vmimport --assume-role-policy-document "file://C:\import\trust-policy.json"

STEP-4

Attach a Policy to the AWS Role

<https://docs.aws.amazon.com/vm-import/latest/userguide/required-permissions.html#vmimport-role>

\*Create a bucket in the s3 and then

create a file named role-policy.json with the following policy, where *amzn-s3-demo-import-bucket* is the bucket for imported disk images and *amzn-s3-demo-export-bucket* is the bucket for exported disk images:

{

"Version":"2012-10-17",

"Statement":[

{

"Effect": "Allow",

"Action": [

"s3:GetBucketLocation",

"s3:GetObject",

"s3:ListBucket"

],

"Resource": [

"arn:aws:s3:::amzn-s3-demo-import-bucket",

"arn:aws:s3:::amzn-s3-demo-import-bucket/\*"

]

},

{

"Effect": "Allow",

"Action": [

"s3:GetBucketLocation",

"s3:GetObject",

"s3:ListBucket",

"s3:PutObject",

"s3:GetBucketAcl"

],

"Resource": [

"arn:aws:s3:::amzn-s3-demo-export-bucket",

"arn:aws:s3:::amzn-s3-demo-export-bucket/\*"

]

},

{

"Effect": "Allow",

"Action": [

"ec2:ModifySnapshotAttribute",

"ec2:CopySnapshot",

"ec2:RegisterImage",

"ec2:Describe\*"

],

"Resource": "\*"

}

]

}

* Use you bucket name in the “disk-image-file-bucket” and save

aws iam put-role-policy --role-name vmimport --policy-name vmimport --policy-document "file://C:\import\role-policy.json"

* use the file location in import and paste it in the cmd prompt

**IMPORTING STEPS**

STEP-1

Export the current vm into ova file

(using vmware or any virtualisation tool)

1.open vmware

2.open file

3.configure username and password

3.click export to ovf file

(but save as .ova file)

STEP-2

UPLOAD THE OVA FILE INTO AN S3 BUCKET

* enable transfer acceleration in the bucket properties and upload the ova file in the bucket

b

STEP-3

RUN THE AWS COMMAND TO CREATE AN IMAGE

## Import the VM

The following is an example containers.json file that specifies the image using an S3 bucket.

[

{

"Description": "My Server OVA",

"Format": "ova",

"UserBucket": {

"S3Bucket": "amzn-s3-demo-import-bucket",

"S3Key": "vms/my-server-vm.ova"

}

}

]

* USE YOUR BUCKET NAME IN “amzn-s3-demo-import-bucket" AND USE S3 KEY “vms/my-server-vm.ova” AS OVA FILE NAME

Use the following command to import an image with a single disk.

aws ec2 import-image --description "My server VM" --disk-containers <file://C:\import\containers.json>

* USE THE FILE LOCATION IN THE” IMPORT” AND THEN PASTE THE COMMAND IN CMD

STEP-4 MONITOR THE IMAGE PROCESSING

* aws ec2 describe-import-image-tasks --import-task-ids import-ami-1234567890abcdef0
* USE YOUR AMI ID IN IT AND MONITOR UNTIL COMPLETED
* THEN CREATE AN EC2 INSTANCE AND GO TO MY AMI CLICK ON YOUR OS AND LAUNCH