Hello, Cloud Gurus

and welcome to this lesson

which is all about using AMIs

in a different region.

First of all,

we'll recap on the regional nature of AMIs.

Next, we'll take a look at copying an AMI,

encryption with copying,

and my exam tips.

Now you may already be aware

that AMIs are regional

and that means that an AMI only exists

in a single region

and you can only use it

in the region that it belongs to.

So if you have an AMI in US East one

and you want to use it in US East two,

then you will need to create a copy

for US East two,

and then you'll be able to use that AMI

to create EC2 instances in US East two.

When copying an AMI,

you can select the destination region

that you want to copy it to

and notice down here

that there's also the option

to select the encryption status of the copy,

but you won't always get this option.

And there are a few rules about this

that you will need to be aware of.

So when copying AMIs,

the following scenarios are supported.

If the AMI that you're copying from is unencrypted,

then the copy can be unencrypted as well.

If the AMI that you're copying from is encrypted,

then the copy can also be encrypted.

If the AMI that you're copying from is unencrypted,

then you will have the option

to add encryption for the copy.

However, if the AMI that you are copying from is encrypted,

then you will not be able to use it

to create an unencrypted AMI.

So you cannot create an unencrypted AMI

by copying an encrypted AMI.

And by default,

if you do not specify encryption parameters,

then the AMI is copied

with its original encryption status.

So that means that if you copy an unencrypted AMI

without specifying encryption,

then you will get an unencrypted AMI.

And if you later want to encrypt an existing AMI

that is not encrypted,

then you will need to create a copy

and specify encryption

to happen during the copying process

and that's the way to get an encrypted AMI

from an unencrypted one.

And then once you've done that,

you can go ahead and delete the unencrypted one

so that it doesn't get used

by anyone in your organization.

So for the exam, just be aware

that if you want to use an AMI

in a different region,

then you will need to create a copy

and specify the destination region

where you would like to use the AMI.

For unencrypted AMIs,

you will also be able

to select an encryption status.

And just remember

that you can apply encryption

during the copying process,

but you cannot remove encryption

during the copying process.

So that is it for this lesson.

Any questions, please let me know.

Otherwise, I'll see you in the next one.

Thank you.a