# The Script

# Aug 2017

Below is the script we will be using, I want to discuss a few of the elements first so that we understand a little of what changes to the script you might need to make to suit your purposes. (Ignore the line numbers)

<sxh> provider "aws" {

```
access_key = "JLJBK63HMPBC7DC150PA"
secret_key = "K7H2g33xPj6F7zBNcFGTeL5SlbjTsDNA/9nA2caa"
region = "eu-west-2"
```

}

```
resource "aws_instance" "example" {
```

```
ami = "ami-40a8bf24"
instance_type = "t2.micro"
key_name = "TestWebSvr"
security_groups= ["launch-wizard-1"]
tags {
Name = "terraform-instance"
}
```

} </sxh>

## Access Key

This is not the same as your key pair, if you have created an EC2 instance manually, you will have created a key pair for SSH access, but the credentials here are not the same.

<sxh> provider "aws" {

```
access_key = "JLJBK63HMPBC7DC150PA"
secret_key = "K7H2g33xPj6F7zBNcFGTeL5SlbjTsDNA/9nA2caa"
```

</sxh>

We will look at how to create the 'access' and 'secret' keys further down. Please note that these keys in the above example are complete fabrications, please do not try to use them, you will totally waste your time.

### Region

This really caught me out to begin with. If I look at the region I am running my instance in then it is reported as eu-west-2a. The region I am using (London) has two availability zones, eu-west-2a and eu-west-2b However you don't chose which one of these you use, it's automatic, so when you pick your region, you only specify the main region like this eu-west-2 <<sxh>

region = "eu-west-2"

</sxh>

#### Instance AMI

The next section is where we setup our AMI (Amazon Machine Image) The AMI is what OS you wish to use (Linux, Winodws etc) and if Linux what version of Linux (Red Had, Debian etc). <sxh>

1/3

ami = "ami-40a8bf24"

#### </sxh>

In the above example we have specified ami = "ami-40a8bf24". To find this you need to log in to your AWS account and select 'Launch Instance'. You will see the page of AMI options and their associated AMI names.

	eesource Groups 🧹 🦒	
ep 1: Choose a	stature Type 3 Configure Instance 4. Add Storage 5. Add Tage 6. Configure Security Group 7. Review n Amazon Machine Image (AMI) ains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWIS, our user community, or the AWIS Marketplace; or you can select one of your own AMIs.	Cancel and Exi
Quick Start		<~<~ 1 to 30 of 30 AMIs $~>~$
My AMIs	The Amazon Linux AMI 2017.03.1 (HVM), SSD Volume ypp - ami-ed100689	Select
AWS Marketplace	Amazon Linux The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Pert, and Java. The repositories include Docker, PHP, MySOL, PostgreSOL, and other packages. Free tor eligible Root device type: 4ta Unablished Transformed	64-bit
Community AMIs	SUSE Linux Enterprise Server 12 SP2 (HVM), SSD Volume Type - ami-a@eae0cd	Select
Free tier only ()	SUSE Linux SUSE Linux Enterprise Server 12 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.	64-bit
	Red Hat Enterprise Linux 7.3 (HVM), SSD Volume Type - ami-40a8bf24	Select
	Red Hat Enterprise Linux version 7.3 (HVM), EBS General Purpose (SSD) Volume Type Pres for stopped Root device type etc Vitualization type: hmm	64-bit
	O Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-98637210	Select
	Uburhu Server 16.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.uburhu.com/cloud/services). Proc tor stights Root device how the with Virtualization how hom	64-bit

Please be aware that AMI names vary across AZ availability zones. So the AMI name of Red Hat will differ between London and US.

### **Instance Type**

The Instance Type is really the type of Virtual Server. This dictates how many vCPUs you have, the amount of RAM etc. <sxh>

instance\_type = "t2.micro"

</sxh>

In this example we are using the t2.micro, as this falls in to the free tier category (as long as you are still in your free tier period.)

#### EC2 Names

Key name is simply a name to identify the EC2 Instance as.  $<\!\! \mathsf{sxh}\!\!>$ 

```
key_name = "TestWebSvr"
Name = "terraform-instance"
```

</sxh>

The Name = terraform-instance is another label to identify this by.

#### **Security Groups**

There are security groups that can be set in the Terraform script. You can create your own security groups or use the default one (default one that is created with a new EC2 Instance.) <sxh>

<5x11>

```
security_groups= ["launch-wizard-1"]
```

</sxh>

The security groups "launch-wizard-1" is the default security group and has the default inbound settings of SSH, TCP, 22, 0.0.0.0/0 which allows for SSH access.

From: http://cameraangle.co.uk/ - **WalkerWiki - wiki.alanwalker.uk** 

Permanent link: http://cameraangle.co.uk/doku.php?id=the\_script&rev=1501871444

Last update: 2023/03/09 22:35



The Script