Chapter Survey

Java Spring Deployment AWS Deployment EC2 Set Up

Deploying your Spring Boot to Amazon

Prerequisites:

Java / Spring

- Basic Terminal knowledge
- Basic Java and Spring knowledge
- AWS Free Tier account. You can sign up at: http://aws.amazon.com/free/ (http://aws.amaz

Overview:

To successfully deploy our Spring Boot application, we will need to install the following technolo

- Java JDK
- Apache Web Server
- MySQL Database

Setting Up our EC2 Instance

 Once your AWS account is created, let's log in to the console at aws.amazon.com/console. C Category.

AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Recently visited services



EC2

All services

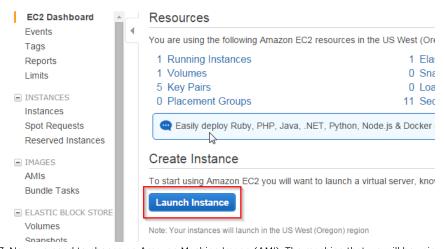






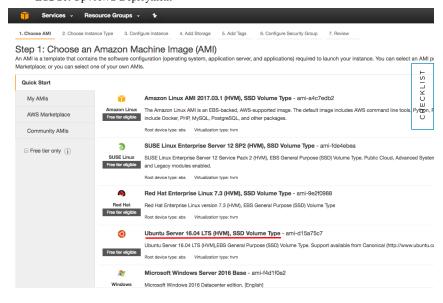
CHECKLIS"

2. In the EC2 dashboard, let's click the large blue button that says " ${\it Launch\ Instance}$ "

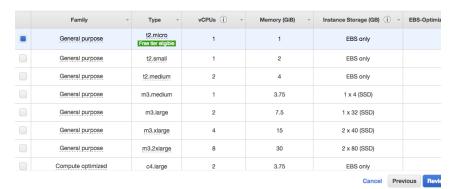


3. Now, we need to choose an Amazon Machine Image (AMI). The machine that we will be usin machine should be offered by Amazon for free.

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4. Now, we get to choose how powerful we want this instance to be. Let's go with the *t2.micro* ahead and click on "Next: Configure Instance Details".



5. We will be using mostly default configurations but is good to know what you are able to cus won't need to change anything. Go ahead and click "Next: Add Storage".

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing and more.

Number of instances (i) ☐ Request Spot Instances Purchasing option (i) C Create new VPC vpc-18b24c7d (172.31.0.0/16) (default) No preference (default subnet in any Availability Zone) Subnet (i) ٥ Create new subnet Auto-assign Public IP (i) Use subnet setting (Enable) IAM role (i) C Create new IAM role Shutdown behavior (i) Stop Enable termination protection (i) Protect against accidental termination ☐ Enable CloudWatch detailed monitoring Additional charges apply. Shared tenancy (multi-tenant hardware) Tenancy (i) Additional charges will apply for dedicated tenancy. Advanced Details

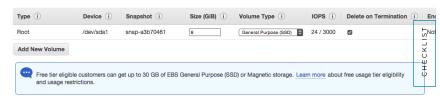
6. This is where we want to specify how much storage we want. We will only need 8 GB for not Tag Instance".



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Step 4: Add Storage

Your instance will be alunched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

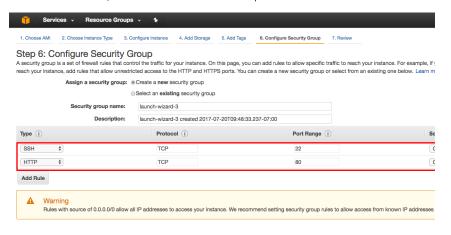


7. We can give our instance a name by "tagging" it. It is up to you if you want to name it. Go al Configure Security Group".

Step 5: Tag Instance



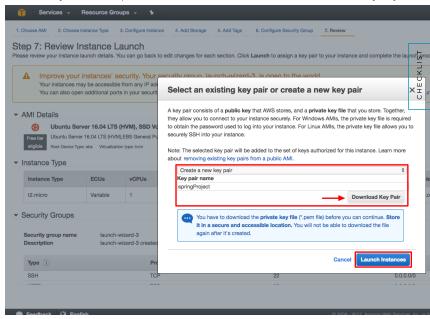
8. In the Configure Security Group page, you have the option to create a new security group. A firewall rules that control the traffic for your instance. Under this Security Group, the default TCP protocol, this means that we can only access this instance via SSH (PUTTY for windows macs. For web traffic, we also want to add the HTTP protocol. Go ahead and click on "Revie



- 9. Go ahead and click Launch to create our configured EC2 instance.
- 10. Next, need to create and download a new key pair. This is a private KEY that will allow us to

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• Once you have the pem file downloaded, move it to a convenient directory of your chc



- In your terminal, navigate to the directory where the pem file is located and change th
 "chmod 400 <<theNameOfYourKey>>.pem".
- Using ssh, we will connect to our instance by running "ssh -i <<theNameOfYourKey>>.
 ubuntu@<<yourPublicIpAddress>>".
- Your system will ask you if you want to continue connecting. Type in **yes**.

Note: You can find both, public and private IPs, in the EC2 dashboard.

11. Once connected to the server, run "sudo apt-get update" and "sudo apt-get -y upgrade". The system, is up to date. If you see a pink screen to update menu.lst, choose the default option currently installed.

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