Automatically setting an EC2 instance using bootstrap script

When we create a virtual server, we need to install software so it does something. Commonly, a VM can be used to run a web server like Apache httpd. To install software/packages when setting up an EC2 Linux instance, we tell AWS to run a bootstrap script as "User data". You can do this **during the EC2 setup**, under AWS EC2



Launch Instance wizard, in Step 3 Configure Instance Details | Advanced Details. We recommend you use the following script (also provided in a separate text file):

```
#!/bin/bash
yum update -y
amazon-linux-extras install -y lamp-mariadb10.2-php7.2 php7.2
service httpd start
yum install -y httpd mariadb-server php-mbstring php-xml
systemctl start httpd
systemctl enable httpd
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```

This script does the following (for more details, visit https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-lamp-amazon-linux-2.html

- 1. Updates the Linux operating system with the yum command
- 2. Installs the Apache Web server httpd along with PHP and MySQL and other necessary packages
- 3. Starts the Web server and checks its configuration
- 4. Adds ec2-user to apache group
- 5. Changes file and directory permissions so files can be uploaded to the www directory
- 6. Copies a sample php web page to the www directory for testing.

NOTE: Pay attention to the syntax when you copy & paste the script above from this document to the input field in AWS Management Console. Syntax errors often occur with cross-platform copy & paste. To mitigate this issue, we have provided a bare text file (*EC2 setup script.txt* file) that contains the script.

NOTE: On Swinburne Mercury, the directory for html files was called *www/htdocs*. In this set up, it is *www/html*.

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