

# Module Package Management

## How to Start Module:

- Before starting the module, Run the <module\_script\_name> to configure the environment and then <module\_script\_name> to verify you have done the work correctly
  1. Open a Terminal Window
  2. Clone the GitHub repo (If you have already downloaded Github Repo, skip Step2) ([https://github.com/milodigwe/Linux\\_Essentials\\_m2itech](https://github.com/milodigwe/Linux_Essentials_m2itech))
    - From the command line type:  
`git clone https://github.com/milodigwe/Linux\_Essentials\_m2itech`
  3. Once repository is cloned, navigate to the Hands\_On Folder and find the script named: **package\_management.sh**
  4. Run the package\_management.sh script: This will configure the environment for the hands-on module
    - **sh ./package\_management.sh**
    - The script will ask you for your public IP of your instance (which you can find in your aws console) and your key\_pair (which you downloaded and assigned to instance during the ec2 creation process) to log into your instance.
  5. Once the script is finished it will provide you with an output on how to log into the system.
    - Should look like: `ssh -i <path to key pair> ec2-user@<ip address>`
  6. Once logged in to the instance, Perform the required tasks below.

7. To verify that you have performed the task correctly. You will need to run the **package\_management\_check.sh** script located in /home/ec2-user directory.

- **package\_management\_check.sh** You must score a 100% to pass this module.

8. Please Note \* Terminate or Stop your instance when not using it.

HAPPY LEARNING!!!

Questions:

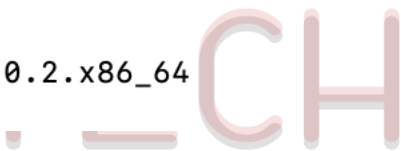
**Lab 1:** Install the latest version the “tree” package.

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```
[ec2-user@ip-172-31-30-172 ~]$ sudo yum -y install tree
Last metadata expiration check: 0:49:25 ago on Sun Jun 30 00:43:34 2024.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing:				
tree	x86_64	1.8.0-6.amzn2023.0.2	amazonlinux	56 k
Transaction Summary				
Install 1 Package				
Total download size: 56 k				
Installed size: 113 k				
Downloading Packages:				
tree-1.8.0-6.amzn2023.0.2.x86_64.rpm			967 kB/s   56 kB	00:00
Total			466 kB/s   56 kB	00:00
Running transaction check				
Transaction check succeeded.				
Running transaction test				
Transaction test succeeded.				
Running transaction				
Preparing	:			1/1
Installing	:	tree-1.8.0-6.amzn2023.0.2.x86_64		1/1
Running scriptlet:	:	tree-1.8.0-6.amzn2023.0.2.x86_64		1/1
Verifying	:	tree-1.8.0-6.amzn2023.0.2.x86_64		1/1

Installed:  
tree-1.8.0-6.amzn2023.0.2.x86\_64



**Lab 2:** Update the current version of the package “httpd” to the latest package version.

```
[[ec2-user@ip-172-31-30-172 ~]$ sudo yum -y update httpd
Last metadata expiration check: 0:53:05 ago on Sun Jun 30 00:43:34 2024.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Upgrading:				
httpd	x86_64	2.4.59-2.amzn2023	amazonlinux	47 k
httpd-core	x86_64	2.4.59-2.amzn2023	amazonlinux	1.4 M
httpd-filesystem	noarch	2.4.59-2.amzn2023	amazonlinux	14 k
httpd-tools	x86_64	2.4.59-2.amzn2023	amazonlinux	81 k
mod_lua	x86_64	2.4.59-2.amzn2023	amazonlinux	61 k
Transaction Summary				
Upgrade 5 Packages				
Total download size: 1.6 M				
Downloading Packages:				
(1/5): httpd-filesystem-2.4.59-2.amzn2023.noarch.rpm			225 kB/s   14 kB	00:00
(2/5): httpd-2.4.59-2.amzn2023.x86_64.rpm			709 kB/s   47 kB	00:00
(3/5): httpd-core-2.4.59-2.amzn2023.x86_64.rpm			16 MB/s   1.4 MB	00:00
(4/5): mod_lua-2.4.59-2.amzn2023.x86_64.rpm			2.4 MB/s   61 kB	00:00
(5/5): httpd-tools-2.4.59-2.amzn2023.x86_64.rpm			2.5 MB/s   81 kB	00:00
Total			10 MB/s   1.6 MB	00:00
Running transaction check				
Transaction check succeeded.				
Running transaction test				
Transaction test succeeded.				
Running transaction				
Preparing	:			1/10
Upgrading	:	httpd-tools-2.4.59-2.amzn2023.x86_64		1/10
Running scriptlet:		httpd-filesystem-2.4.59-2.amzn2023.noarch		2/10
Upgrading	:	httpd-filesystem-2.4.59-2.amzn2023.noarch		2/10
Upgrading	:	httpd-core-2.4.59-2.amzn2023.x86_64		3/10
Upgrading	:	mod_lua-2.4.59-2.amzn2023.x86_64		4/10
Upgrading	:	httpd-2.4.59-2.amzn2023.x86_64		5/10
Running scriptlet:		httpd-2.4.59-2.amzn2023.x86_64		5/10
Running scriptlet:		httpd-2.4.54-3.amzn2023.0.4.x86_64		6/10
Cleanup	:	httpd-2.4.54-3.amzn2023.0.4.x86_64		6/10
Running scriptlet:		httpd-2.4.54-3.amzn2023.0.4.x86_64		6/10
Cleanup	:	mod_lua-2.4.54-3.amzn2023.0.4.x86_64		7/10
Cleanup	:	httpd-core-2.4.54-3.amzn2023.0.4.x86_64		8/10
Cleanup	:	httpd-filesystem-2.4.54-3.amzn2023.0.4.noarch		9/10
Cleanup	:	httpd-tools-2.4.54-3.amzn2023.0.4.x86_64		10/10
Running scriptlet:		httpd-2.4.59-2.amzn2023.x86_64		10/10
Running scriptlet:		httpd-tools-2.4.54-3.amzn2023.0.4.x86_64		10/10
Verifying	:	httpd-2.4.59-2.amzn2023.x86_64		1/10
Verifying	:	httpd-2.4.54-3.amzn2023.0.4.x86_64		2/10
Verifying	:	httpd-core-2.4.59-2.amzn2023.x86_64		3/10
Verifying	:	httpd-core-2.4.54-3.amzn2023.0.4.x86_64		4/10
Verifying	:	httpd-filesystem-2.4.59-2.amzn2023.noarch		5/10
Verifying	:	httpd-filesystem-2.4.54-3.amzn2023.0.4.noarch		6/10
Verifying	:	httpd-tools-2.4.59-2.amzn2023.x86_64		7/10
Verifying	:	httpd-tools-2.4.54-3.amzn2023.0.4.x86_64		8/10
Verifying	:	mod_lua-2.4.59-2.amzn2023.x86_64		9/10

```

Upgraded:
  httpd-2.4.59-2.amzn2023.x86_64      httpd-core-2.4.59-2.amzn2023.x86_64      httpd-filesystem-2.4.59-2.amzn2023.noarch
  httpd-tools-2.4.59-2.amzn2023.x86_64  mod_lua-2.4.59-2.amzn2023.x86_64

Complete!
[ec2-user@ip-172-31-30-172 ~]$

```

### Lab 3: Uninstall GraphicsMagick package from the server.

```

[ec2-user@ip-172-31-30-172 ~]$ sudo yum list installed | grep GraphicsMagick
GraphicsMagick.x86_64                1.3.38-1.amzn2023.0.4                @amazonlinux
[ec2-user@ip-172-31-30-172 ~]$ sudo yum -y remove GraphicsMagick
Dependencies resolved.

```

Package	Architecture	Version
Removing: GraphicsMagick	x86_64	1.3.38-1.amzn2023.0.4

```

Removed:
GraphicsMagick-1.3.38-1.amzn2023.0.4.x86_64      cairo-1.17.6-2.amzn2023.0.1.x86_64      fontconfig-2.13.94-2.amzn2023.0.2.x86_64
fonts-filesystem-1:2.0.5-12.amzn2023.0.2.noarch  freetype-2.13.0-2.amzn2023.0.1.x86_64   google-noto-fonts-common-20201206-2.amzn2023.0.2.noarch
google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch  graphite2-1.3.14-7.amzn2023.0.2.x86_64  harfbuzz-7.0.0-2.amzn2023.0.1.x86_64
jasper-libs-2.0.33-1.amzn2023.0.2.x86_64          jbigkit-libs-2.1-21.amzn2023.0.2.x86_64  langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch
lcms2-2.12-1.amzn2023.0.3.x86_64                  libICE-1.0.10-6.amzn2023.0.2.x86_64      libSM-1.2.3-8.amzn2023.0.2.x86_64
libX11-1.7.2-3.amzn2023.0.4.x86_64                libX11-common-1.7.2-3.amzn2023.0.4.noarch  libXau-1.0.9-6.amzn2023.0.2.x86_64
libXext-1.3.4-6.amzn2023.0.2.x86_64               libXrender-0.9.10-14.amzn2023.0.2.x86_64  libfontenc-1.1.3-15.amzn2023.0.2.x86_64
libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64         libpng-2:1.6.37-10.amzn2023.0.6.x86_64   libtiff-4.4.0-4.amzn2023.0.18.x86_64
libtool-ltdl-2.4.7-1.amzn2023.0.3.x86_64          libwebp-1.2.4-1.amzn2023.0.6.x86_64      libxcb-1.13.1-7.amzn2023.0.2.x86_64
mkfontscale-1.2.1-2.amzn2023.0.3.x86_64           pixman-0.40.0-3.amzn2023.0.3.x86_64      urw-base35-fonts-legacy-20200910-6.amzn2023.0.2.noarch
xml-common-0.6.3-56.amzn2023.0.2.noarch

```

```

Complete!
[ec2-user@ip-172-31-30-172 ~]$

```

### Check Script:

```
[[ec2-user@ip-172-31-30-172 ~]$ sh ./package_management_check.sh
1. Checking if the 'tree' package is installed. PASS
2. Checking if the 'httpd' package is up-to-date. PASS
3. Checking if GraphicsMagick' package is installed. PASS

Score: 3 / 3
Your score is 100%, You have passed this module!! PASS

Number of Correct : 3 / Number of Fail : 0
[ec2-user@ip-172-31-30-172 ~]$
```

# M2i

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