AZURE LAB 10 (CLOUD init)

I just want to go through another way in which you can actually install packages on a Linux base machine. You have this concept known as cloud in it, which is a standard that can be used for installing packages on your Linux based machines.

I have a YAML file. So YAML is again a markup language in which you can specify your configuration for cloud in it.

Cloud in it follows a very particular structure on how you can install packages. Here I'm saying to please upgrade the package index or market as true. And what are the packages that I want to install? I want to install the index web package.

Below is the YAML file which you are going to use to install web package. You can also get the file from GitHub, if you are facing difficulties with it.

(#cloud-config

package_upgrade: true

packages:

- nginx)



🤭 TO BEGIN WITH THE LAB:

- 1. Log in to your Azure Portal.
- 2. There go to create resources and create Linux Virtual Machine.
- 3. While creating your machine keep in mind to select HTTP (80) as inbound port, so that outside traffic is allowed to your virtual machine.

Create a virtual machine

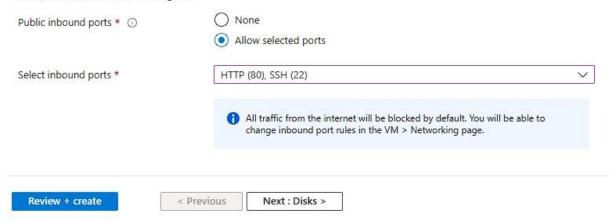
Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ①	Free Trial	~
	rice ilidi	
Resource group * ①	app-grp	~
	Create new	
Instance details		
Virtual machine name * ①	Linuxym	
virtual machine name ()	LIIIUAYIII	
Region * ①	(Asia Pacific) Central India	~
Availability options ①	No infrastructure redundancy required	~
Security type ①	Standard	~
Image * ①	Ubuntu Server 20.04 LTS - x64 Gen2 (free services eligible)	~
	See all images Configure VM generation	
	This image is compatible with additional security features. <u>Click here to swap to Trusted launch security type.</u>	the_
VM architecture ①	○ Arm64	
	● x64	
Run with Azure Spot discount ①		
Size * ①	Standard_B1s - 1 vcpu, 1 GiB memory (₹642.10/month) (free services eligibl	e) ∨
Enable Hibernation (preview) ①	See all sizes	
	1 To enable Hibernation, you must register your subscription. <u>Learn more</u>	
Administrator account		
Authentication type ①	SSH public key	
71 -	Password	
Jsername * ①	demousr	
Password * ①	•••••	~
Confirm password * (i)		

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.



- 4. Once these steps are complete, leave everything to default and jump to Advanced page.
- 5. In the advanced page you cans see an option as Custom data and cloud init.
- 6. There you need to paste your code, and it will install a web server onto your virtual machine.

Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Extensions

Extensions provide post-deployment configuration and automation.

Extensions (i)

Select an extension to install

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. Learn more 🗹

Select a VM application to install

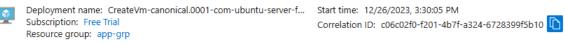
Custom data and cloud init

Pass a cloud-init script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. Learn more about custom data for VMs $\ensuremath{\omega}$

Custom data

#cloud-config package_upgrade: true packages: - nginx

- 7. Now go to review and create your virtual machine.
- 8. Wait till it get deployed.
- Your deployment is complete



- Deployment details
- Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

Go to resource Create another VM

- 9. Once the deployment is complete go to resource page. There you need to copy public IP address and paste it in a new tab.
- 10. Hence, you can see that web server is successfully installed.



Thank you for using nginx.