

Deploy Linux VM
Spin ubuntu server - VM .
Connect using putty .
Enable inbound ssh .

Create a virtual machine ...

✓ Validation passed

Basics

Subscription	Free Trial
Resource group	az104-hands-on
Virtual machine name	linux-vm
Region	North Europe
Availability options	Availability zone
Availability zone	1
Security type	Standard
Image	Ubuntu Server 20.04 LTS - Gen2
VM architecture	x64
Size	Standard B1s (1 vcpu, 1 GiB memory)
Authentication type	Password
Username	appadmin
Public inbound ports	SSH
Azure Spot	No

Disks

Create

< Previous

Next >

[Download a template](#)

DEPLOY WEB SERVER ON LINUX VM :

Allow inbound port on port 80 .

Add inbound security rule

linux-vm-nsg

Source ⓘ
Any

Source port ranges * ⓘ
*

Destination ⓘ
Any

Service ⓘ
HTTP

Destination port ranges ⓘ
80

Protocol
☐ Any
☒ TCP
☐ UDP
☐ ICMP

Action
☒ Allow

Add Cancel

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

anilkumar.patel001@gx... GAO (GAO.COM)

home >

linux-vm

Virtual machine

Search

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Networking
 - Connect
 - Disks
 - Size
 - Microsoft Defender for Cloud
 - Advisor recommendations
 - Extensions + applications
 - Continuous delivery
 - Availability + scaling

appadmin@linux-vm: ~

* Support: <https://ubuntu.com/advantage>

System information as of Tue Dec 13 08:44:48 UTC 2022

System load:	0.15	Processes:	104
Usage of /:	5.2% of 28.89GB	Users logged in:	0
Memory usage:	30%	IPv4 address for eth0:	10.1.0.4
Swap usage:	0%		

0 updates can be applied immediately.

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>". See "man sudo_root" for details.

appadmin@linux-vm:~\$

Health state	-	Public IP address (IPv6)	-
Operating system	Linux (ubuntu 20.04)	Private IP address	10.1.0.4
Publisher	canonical	Private IP address (IPv6)	-
Offer	0001-com-ubuntu-server-focal	Virtual network/subnet	az104-hands-on-vnet/default

JSON View

Open in mobile CLI / PS Feedback

System : Linux (ubuntu 20.04)

Standard B1s (1 vcpu, 1 GiB memory)

Address : [52.155.248.37](#)

Work/subnet : [az104-hands-on-vnet/default](#)

Not configured

Public IP address : [52.155.248.37](#)

Connect to vm using public ip .

sudo apt-get update

sudo apt-get install nginx

Lab - Build a Linux Virtual Machine - Resources

1. You can go to the following link to download the putty tool

<https://www.putty.org/>

2. You can use the following commands as reference for working on the Linux machine

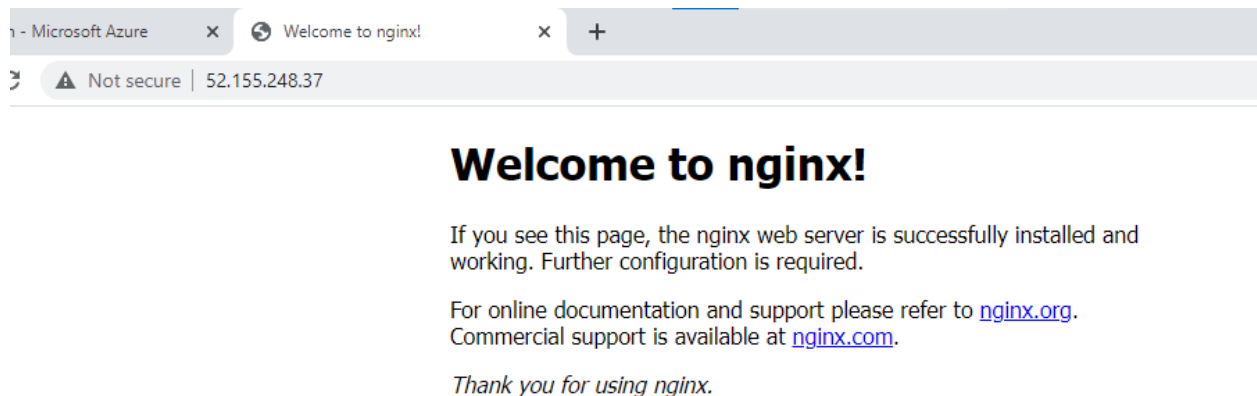
// This command is used to update the package index

```
sudo apt-get update
```

// This command will install the nginx web server

```
sudo apt-get install nginx
```

Once nginx installed vm should be accessible on browsers via public ip since inbound rule is added .



SSH FOR LINUX VM :

For linux vm we can use public and private ssh keys for authentication .

CREATE LINUX VM BASED ON PUBLIC / PRIVATE KEY PAIR :

Create ubuntu vm .

Create a virtual machine ...

Read more about the free trial period, costs associated with this VM, and be covered by any remaining credits on your subscription. [Learn more](#)

Size * Standard_B1s - 1 vcpu, 1 GiB memory (₹594.30/month) (free services eligible)
[See all sizes](#)

Administrator account

Authentication type ☒ SSH public key ☐ Password

Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

Username * azureuser

SSH public key source Generate new key pair

Key pair name * linux-vm_key

Inbound port rules

[Review + create](#) [< Previous](#) [Next : Disks >](#)

For authentication select :

Ssh public key - generate key pair / use existing key pair .

Public key is stored in vm and we will get a private key .

While creating a vm we can download private keys .

Validation passed

1 X Standard B1s
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply
0.8141 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with this offering; (b) authorize Microsoft to bill my current payment method for the fees associated with this offering at the billing frequency as my Azure subscription; and (c) agree that Microsoft may share information with the provider(s) of the offering(s) for support, billing and other transactional purposes, and may provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional information.

Name Anil Kumar Patel

Preferred e-mail address anilkumar.patel001@gxo.com

Preferred phone number 786-502-0826

Generate new key pair

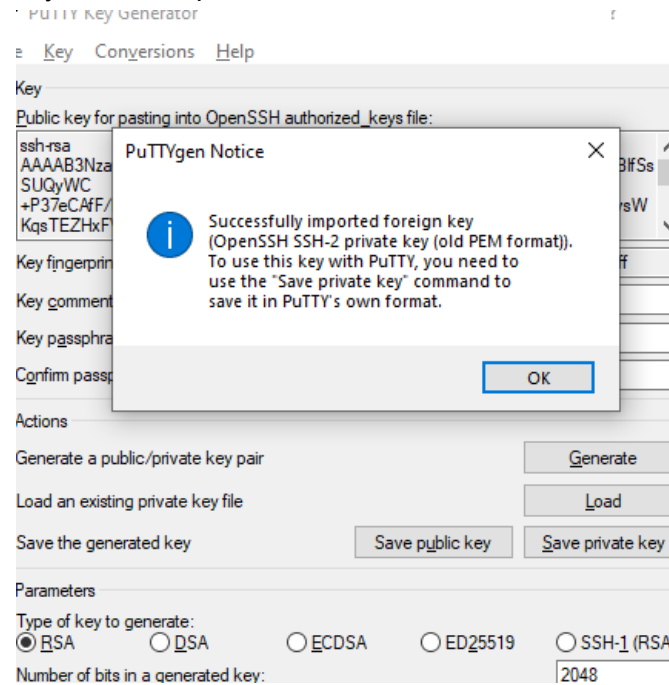
An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. [Learn more](#)

[Download private key and create resource](#)

[Return to create a virtual machine](#)

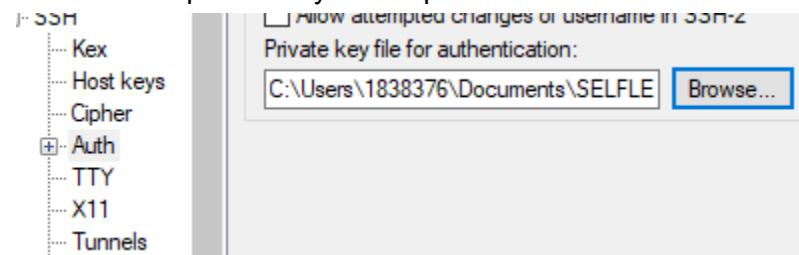
[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

To extract private keys we use a putty key generator . > load > select .pem > save private key > to your desktop .



Login from putty using a private key . :

Ssh > auth > private key file > open .



Now access vm using public ip in putty - don't close putty with pem file . .

So we login to vm using the ssh key pair .