

The screenshot shows the Microsoft Azure home page. At the top, there's a navigation bar with links like "Import bookmarks...", "Getting Started", "Home - Microsoft Azure", "Ansible on Azure", "az commands", "Surrey Libraries", "AZ-900 Indian", and "Containers in Azure". On the right side of the header, it shows "Other Bookmarks", the user's email "ahsansaima7849@gmail.com", and the "DEFAULT DIRECTORY".

The main content area is titled "Azure services" and features a "Create a resource" button. Below it are icons for "All resources", "Virtual machines", "Virtual networks", and "Private DNS zones" (which is highlighted with a blue border). To the right of these icons is a "Private DNS zones" card with a "DNS" icon, a "Create" button, and a "View" button. Below the card is a "Description" section: "Azure Private DNS provides a reliable, secure DNS service to manage and resolve domain names in a virtual network without the need to add a custom DNS solution. By using private DNS zones, you can use your own...". It also includes "Last Viewed" (23 hours ago), "Useful links" (Overview, Get started, Pricing), and "See more" (Recent, Favorite) sections.

Below the main card, there are sections for "Resources" (Recent and Favorite), "Navigate" (Subscriptions, Resource groups, All resources, Dashboard), and "Tools" (Microsoft Learn, Azure Monitor, Microsoft Defender for Cloud, Cost Management).

This screenshot shows the "Private DNS zones" blade. At the top, there are buttons for "Create", "Manage view", "Refresh", "Export to CSV", "Open query", and "Assign tags". Below these are filter options: "Filter for any field...", "Subscription equals all", "Resource group equals all", "Location equals all", and "Add filter". On the right, there are grouping and view options: "No grouping" and "List view".

The main area displays a "DNS" icon and the message "No private dns zones to display". A descriptive text follows: "Azure Private DNS provides a reliable, secure DNS service to manage and resolve domain names in a virtual network without the need to add a custom DNS solution. By using private DNS zones, you can use your own custom domain names rather than having to provision names from a public today. Using private DNS zones helps you to tailor your virtual network architecture to best suit your organization's needs. It provides name resolution for virtual machines (VMs) within a virtual network and between virtual networks. Additionally, you can configure zones names with a split-horizon view, which allows a private and a public DNS zone to share the name." Below this text are two buttons: "Create private dns zone" and "Learn more".

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) ahsansaima7649@gmail.com DEFAULT DIRECTORY X

Home > Private DNS zones >

Create Private DNS zone

Basics Tags Review + create

A Private DNS zone provides name resolution services within virtual networks. A Private DNS zone is accessible only from the virtual networks that it is linked to and can't be accessed over internet. For example you can create a Private DNS zone named contoso.com and then create DNS records like www.contoso.com in this zone. You can then link the zone to a one or more virtual networks. [Learn more.](#)

Project details

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

Subscription * Azure subscription 1
Resource group * myResourceGroup [Create new](#)

Instance details

Name * private.contoso.com
Resource group location West US 3

ⓘ You can link virtual networks to this Private DNS zone after zone has been created.

[Review + create](#) [Previous](#) [Next : Tags >](#) [Download a template for automation](#)

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

Home > Private DNS zones >

Create Private DNS zone

Basics Tags [Review + create](#)

✓ Validation passed

Basics

Subscription	Azure subscription 1
Resource group	myResourceGroup
Resource group location	westus3
Name	private.contoso.com

Tags

None

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

Import bookmarks... Getting Started Home - Microsoft Azure Ansible on Azure az commands *** Surrey Libraries AZ-900 Indian Containers in Azure

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

Home > NoMarketplace-20220801104413 | Overview

NoMarketplace-20220801104413 Deployment

Search (Ctrl+ /) Delete Cancel Redeploy Refresh

Overview Inputs Outputs Template

*** Deployment is in progress...

Deployment name: NoMarketplace-20220801104413 Start time: 8/1/2022, 10:47:01 AM

Subscription: Azure subscription 1 Correlation ID: ed43e164-c8b1-4356-84b2-72db1583c5

Resource group: myResourceGroup

Deployment details (Download)

Resource	Type	Status	Operation details
private.contoso.com	Microsoft.Network/privateDnsZones	Accepted	Operation details

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

Home > NoMarketplace-20220801104413 | Overview

private.contoso.com Private DNS zone

Search (Ctrl+ /) Record set Move Delete zone Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Essentials

Resource group (move): myresourcegroup

Subscription (move): Azure subscription 1

Subscription ID: 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8

Tags (edit): Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Virtual network links Properties Locks Monitoring Alerts Metrics

Automation Tasks (preview) Export template

Support + troubleshooting New Support Request

Search record sets

Name	Type	TTL	Value	Auto registered	...
@	SOA	3600	Email: azureprivatedns-host.microsoft.com Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False	...

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

Azure services

Create a resource Private DNS zones All resources Virtual machines Virtual networks

Resources

Recent Favorite

Name	Type
private.contoso.com	Private D
ahsan	Resource
payroll	Resource
Azure subscription 1	Subscription

See all

Navigate

Subscriptions Resource groups All resources Dashboard

Tools

Microsoft Learn Azure Monitor Microsoft Defender for Cloud Cost Management

<https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Network/virtualNetworks/structure>

Virtual networks

Description

Create a virtual network to securely connect your Azure resources to each other. Connect your virtual network to your on-premises network using an Azure VPN Gateway or ExpressRoute.

Free training from Microsoft

Distribute your services across Azure virtual ... 6 units - 42 min

Secure and isolate access to Azure resources ... 6 units - 43 min

Monitor and troubleshoot your end-to-end ... 6 units - 1 hr 2 min

Last Viewed

a few seconds ago
23 hours ago
3 days ago
2 weeks ago

Useful links

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

Home > Virtual networks

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

No grouping List view

Name ↑ Resource group ↑ Location ↑ Subscription ↑

No virtual networks to display

Create a virtual network to securely connect your Azure resources to each other. Connect your virtual network to your on-premises network using an Azure VPN Gateway or ExpressRoute.

Create virtual network Learn more Create

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

Home > Virtual networks > Create virtual network

Basics IP Addresses Security Tags Review + create

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks. VNet is similar to a traditional network that you'd operate in your own data center, but brings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation. [Learn more about virtual network](#)

Project details

Subscription * Azure subscription 1
Resource group * myResourceGroup Create new

Instance details

Name * MyAzureVNet
Region * West US 3

Review + create < Previous Next : IP Addresses > Download a template for automation

Create virtual network

Add subnet

Subnet name * MyAzureSubnet

Subnet address range * 10.2.0.0/24

NAT GATEWAY

NAT gateway None

SERVICE ENDPOINTS

Services 0 selected

Review + create < Previous Next : Security Download a template for automation Add Cancel

Validation passed

Review + create

Basics

- Subscription: Azure subscription 1
- Resource group: myResourceGroup
- Name: MyAzureVNet
- Region: West US 3

IP addresses

- Address space: 10.0.0.0/16, 10.2.0.0/16
- Subnet: default (10.0.0.0/24) MyAzureSubnet (10.2.0.0/24)

Tags

- None

Security

- BastionHost: Disabled
- DDoS protection plan: Basic
- Firewall: Disabled

Create < Previous Next > Download a template for automation

Microsoft.VirtualNetwork-20220801105449 | Overview

Deployment

Deployment is in progress

Deployment name: Microsoft.VirtualNetwork-20220801105449
Subscription: Azure subscription 1
Resource group: myResourceGroup

Start time: 8/1/2022, 10:57:20 AM
Correlation ID: 373d70e7-2d18-4565-97da-b7eee3aa1ae

Deployment details (Download)

Resource	Type	Status	Operation details
No results.			

*** Deployment in progress... Deployment to resource group 'myResourceGroup' is in progress.

Microsoft Azure Upgrade

Home > Microsoft.VirtualNetwork-20220801105449 | Overview > MyAzureVNet

MyAzureVNet | Subnets

Virtual network

Search (Ctrl+F) + Subnet + Gateway subnet Refresh Manage users Delete

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings

Search subnets

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table	...
default	10.0.0.0/24	-	251	-	-	-	...
MyAzureSubnet	10.2.0.0/24	-	251	-	-	-	...

Microsoft Azure Upgrade

Home >

myResourceGroup

Resource group

Search (Ctrl+F) + Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

Overview Activity log Access control (IAM) Tags Resource visualizer Events Settings Deployments Security Policies Properties Locks

Essentials

Subscription (move) : Azure subscription 1 Deployment : 2 Succeeded Subscription ID : 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8 Location : West US 3 Tags (edit) : Click here to add tags

Resources Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 2 of 2 records. Show hidden types

Name	Type	Location	...
MyAzureVNet	Virtual network	West US 3	...
private.contoso.com	Private DNS zone	Global	...

Microsoft Azure Upgrade

Home >

myResourceGroup

Resource group

Search (Ctrl+F) + Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

Overview Activity log Access control (IAM) Tags Resource visualizer Events Settings Deployments Security Policies Properties Locks Cost Management Cost analysis Cost alerts (preview)

Essentials

Subscription (move) : Azure subscription 1 Deployment : 2 Succeeded Subscription ID : 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8 Location : West US 3 Tags (edit) : Click here to add tags

Resources Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 2 of 2 records. Show hidden types

Name	Type	Location	...
MyAzureVNet	Virtual network	West US 3	...
private.contoso.com	Private DNS zone	Global	...

Microsoft Azure Upgrade

Home > myResourceGroup >

private.contoso.com

Private DNS zone

Search (Ctrl+F) + Record set Move Delete zone Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Virtual network links Properties Locks Monitoring Alerts Metrics

Essentials

Resource group (move) : myresourcegroup Subscription (move) : Azure subscription 1 Subscription ID : 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8 Tags (edit) : Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Auto registered
@	SOA	3600	Email: azurereplicatedns-host.microsoft.com Host: azurereplicatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False

Microsoft Azure Upgrade

Home > myResourceGroup > private.contoso.com

Private DNS zone

Search (Ctrl+F) Record set Move Delete zone Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Resource group (move) : myresourcegroup
Subscription (move) : Azure subscription 1
Subscription ID : 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8
Tags (edit) : Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Virtual network links

Name	Type	TTL	Value	Auto registered
@	SOA	3600	Email: azureprivatedns-host.microsoft.com Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False

Properties Locks Monitoring Alerts Metrics Automation

Microsoft Azure Upgrade

Home > myResourceGroup > private.contoso.com

private.contoso.com | Virtual network links

Private DNS zone

Search (Ctrl+F) Add Refresh

Overview Activity log Access control (IAM) Tags

Link Name Link status Virtual network Auto-Registration

No results.

Microsoft Azure Upgrade

Home > myResourceGroup > private.contoso.com | Virtual network links > Add virtual network link

private.contoso.com

Link name * myLink

Virtual network details

Only virtual networks with Resource Manager deployment model are supported for linking with Private DNS zones.
Virtual networks with Classic deployment model are not supported.

I know the resource ID of virtual network

Subscription * Azure subscription 1

Virtual network * MyAzureVNet (myResourceGroup)

Configuration

Enable auto registration

Microsoft Azure Upgrade

Home > myResourceGroup > private.contoso.com | Virtual network links > Add virtual network link

private.contoso.com

Link name * myLink

Virtual network details

Only virtual networks with Resource Manager deployment model are supported for linking with Private DNS zones.
Virtual networks with Classic deployment model are not supported.

I know the resource ID of virtual network

Subscription * Azure subscription 1

Virtual network * MyAzureVNet (myResourceGroup)

Configuration

Enable auto registration

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

Home > myResourceGroup > private.contoso.com

private.contoso.com | Virtual network links ...

Private DNS zone

Search (Ctrl+F) + Add Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Search virtual network links

Link Name	Link status	Virtual network	Auto-Registration
mylink	Completed	MyAzureVNet	Enabled

No results.

... Creating virtual network link
Creating virtual network link 'myLink'

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

Home > myResourceGroup > private.contoso.com

private.contoso.com | Virtual network links ...

Private DNS zone

Search (Ctrl+F) + Add Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Search virtual network links

Link Name	Link status	Virtual network	Auto-Registration
mylink	Completed	MyAzureVNet	Enabled

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

Home > myResourceGroup > private.contoso.com | Virtual network links

mylink ...

private.contoso.com

Save Discard Delete Access Control (IAM) Tags

Link name: mylink

Link state: Completed

Provisioning state: Succeeded

Virtual network details:

Virtual network ID: /subscriptions/2fc5134-8ec1-4472-a3cc-8c30fc0372c8/resourceGroups/myResourceGroup/providers/Microsoft.Network/virtualNetworks/MyAzureVNet

Virtual network: MyAzureVNet

Configuration: Enable auto registration

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

Home > Virtual machines >

Create a virtual machine ...

Resource group * myResourceGroup ✓

Create new

Instance details

Virtual machine name * lnxvm01 ✓

Region * (US) West US 3 ✓

Availability options ...

Availability zone ...

Zones 1 ✓

You can now select multiple zones. Selecting multiple zones will create one VM per zone. [Learn more](#)

Security type ...

Image * Ubuntu Server 20.04 LTS - Gen2 (free services eligible) ✓

[See all images](#) | [Configure VM generation](#)

Run with Azure Spot discount ...

Size * Standard_B1s - 1 vcpu, 1 GiB memory (US\$7.59/month) (free services eligible) ✓

[See all sizes](#)

Administrator account

Authentication type ...

SSH public key

Password

Review + create < Previous Next : Disks > Give feedback

Microsoft Azure [Upgrade](#)

Home > Virtual machines >

Create a virtual machine

Image * [See all images](#) | [Configure VM generation](#)

Run with Azure Spot discount

Size * [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 *

SSH public key source

Key pair name *

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.

Public inbound ports * None Allow selected ports

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

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

Home > Virtual machines > Create a virtual machine

Image * ⓘ Ubuntu Server 20.04 LTS - Gen2 (free services eligible) See all images | Configure VM generation

Run with Azure Spot discount (ⓘ)

Size * ⓘ Standard_B1s - 1 vcpu, 1 GiB memory (US\$7.59/month) (free services eligible) See all sizes

Administrator account

Authentication type (ⓘ) SSH public key Password

i 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 * ⓘ mahsan

SSH public key source Generate new key pair

Key pair name * Inxvm01_key

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.

Public inbound ports * ⓘ None Allow selected ports

Review + create < Previous Next : Disks >



Microsoft Azure

[Upgrade](#) Search resources, services, and docs (G+/)

Home > Virtual machines >

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

Disk options

OS disk type * ⓘ

[Standard HDD \(locally-redundant storage\)](#)

If performance is critical for your workloads, choose Premium SSD disks for lower latency, higher IOPS and bandwidth, and bursting. [Learn more](#)

Delete with VM ⓘ



Enable encryption at host ⓘ



Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

Encryption type *

[\(Default\) Encryption at-rest with a platform-managed key](#)

Enable Ultra Disk compatibility ⓘ



Data disks for lnxvm01

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM ⓘ
-----	------	------------	-----------	--------------	------------------

[Create and attach a new disk](#) [Attach an existing disk](#)[Review + create](#)[< Previous](#)[Next : Networking >](#)

Microsoft Azure [Upgrade](#) Search resources, services, and docs (G+)

Home > Virtual machines >

Create a virtual machine

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * [ⓘ](#) [Create new](#)

Subnet * [ⓘ](#) [Manage subnet configuration](#)

Public IP [ⓘ](#) [Create new](#)

NIC network security group [ⓘ](#) Basic None Advanced

Public inbound ports * [ⓘ](#) Allow selected ports None

Select inbound ports *

⚠ This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

Delete public IP and NIC when VM is deleted [ⓘ](#)

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



Microsoft Azure

[Upgrade](#)

Search resources, services, and docs (G+/)

[Home > Virtual machines >](#)

Create a virtual machine

...

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Configure monitoring and management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

Your subscription is protected by Microsoft Defender for Cloud basic plan.

Monitoring

Boot diagnostics (i)

- Enable with managed storage account (recommended)
- Enable with custom storage account
- Disable

Enable OS guest diagnostics (i)

Identity

Enable system assigned managed identity (i)

Azure AD

Login with Azure AD (i)

RBAC role assignment of Virtual Machine Administrator Login or Virtual Machine User Login is required to use Azure AD login. [Learn more](#)

[Review + create](#)< PreviousNext : Advanced >

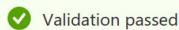


Microsoft Azure

[Upgrade](#) Search resources, services, and docs (G+)[Home](#) > [Virtual machines](#) >

Create a virtual machine

...



Validation passed

PRODUCT DETAILS

1 X Standard B1s

by Microsoft

[Terms of use](#) | [Privacy policy](#)Subscription credits apply (i)**0.0104 USD/hr**[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name

ahsan saima

Preferred e-mail address

ahsansaima7849@gmail.com

Preferred phone number



You have set SSH port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

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

Microsoft Azure [Upgrade](#)

Search resources, services, and docs (G+/)

Home > Virtual machines >

Create a virtual machine

Validation passed

PRODUCT DETAILS

1 X Standard B1s by Microsoft Subscription credits apply ⓘ **0.0104 USD/hr** [Terms of use](#) | [Privacy policy](#) [Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name: ahsan salma
Preferred e-mail address: ahsansaima7849@gmail.com
Preferred phone number:

Generate new key pair

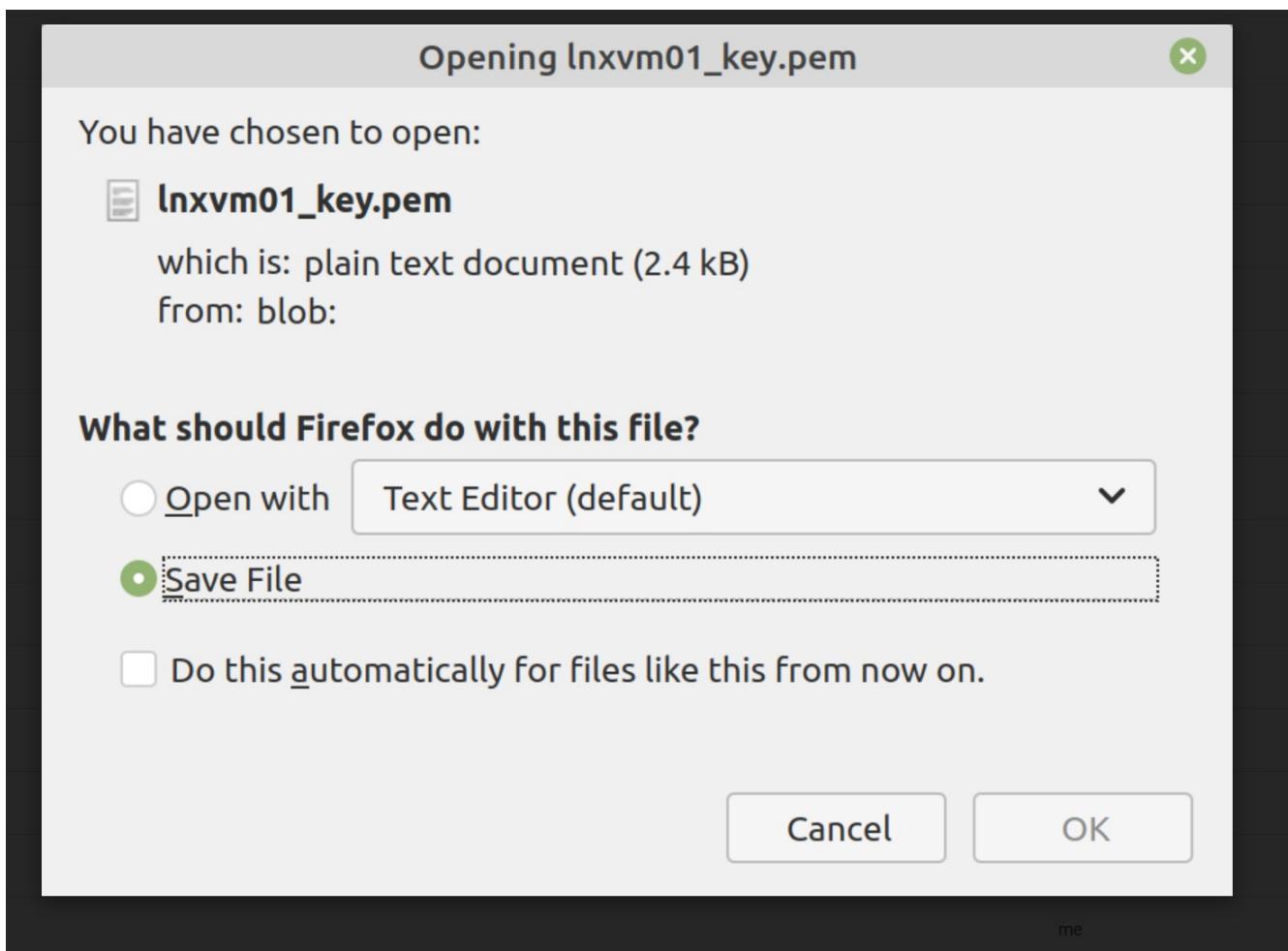
An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. [Learn more ⓘ](#)

[Download private key and create resource](#) [Return to create a virtual machine](#)

⚠ You have set SSH port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

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

<https://www.microsoft.com/fwlink/?LinkId=2107401>



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

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220801111334 | Overview ...

Deployment

Search (Ctrl+/Search) Delete Cancel Redeploy Refresh

We'd love your feedback! →

Overview Inputs Outputs Template

Deployment is in progress

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220801111334 Start time: 8/1/2022, 11:17:08 AM
Subscription: Azure subscription 1 Correlation ID: 3c3126ce-032f-4ef4-b2bf-500b9e8abc13 Download

Resource Type Status Operation details

lnxvm01-nsg	Microsoft.Network/networkSecurityGroups	OK	Operation details
lnxvm01-ip	Microsoft.Network/publicIPAddresses	OK	Operation details

mahsan@lnxmint: ~/Downloads

File Edit View Search Terminal Tabs Help

mahsan@lnxmint: ~/Downloads

```
mahsan@lnxmint:~/Downloads$ ll
total 3608
drwxr-xr-x  2 mahsan mahsan  4096 Aug  1 11:17 .
drwxr-xr-x 22 mahsan mahsan  4096 Jul 27 15:38 ../
-rw-----  1 mahsan mahsan 12288 Jul 27 14:22 .asd.swp
-rw-rw-r--  1 mahsan mahsan 1449 Jul 23 10:28 AzureLinux-Cli-Notes.txt
-rw-rw-r--  1 mahsan mahsan 30599 Jul 23 12:23 'Create virtual machine using cli.txt'
-rw-rw-r--  1 mahsan mahsan 2498 Aug  1 11:17 lnxvm01_key.pem
-rw-rw-r--  1 mahsan mahsan 3184910 Jul 24 12:58 pexels-mike-b-892522.jpg
-rw-rw-r--  1 mahsan mahsan 442431 Jul 24 12:58 pexels-photo-892522.jpeg
mahsan@lnxmint:~/Downloads$ 
```

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-202208011111334 | Overview

Inxvm01

Virtual machine

Search (Ctrl+ /) Connect Start Restart Stop Capture Delete Refresh Open in mobile CLI / PS

Essentials

Inxvm01 virtual machine agent status is not ready. Troubleshoot the issue →

Resource group (move) :	myResourceGroup	Operating system :	Linux
Status :	Running	Size :	Standard (Copied, 1 GiB memory)
Location :	West US 3 (Zone 1)	Public IP address :	20.14.82.194
Subscription (move) :	Azure subscription 1	Virtual network/subnet :	MyAzureVNet/default
Subscription ID :	2f1c5134-8ec1-4472-a3cc-8c30fc0372c8	DNS name :	Not configured
Availability zone :	1		
Tags (edit) :	Click here to add tags		

Properties Monitoring Capabilities (7) Recommendations Tutorials

Virtual machine

Computer name	Inxvm01
Health state	-
Operating system	Linux
Publisher	canonical
Offer	0001-com-ubuntu-server-focal
Plan	20.04-lts-gen2
VM generation	V2

Networking

Public IP address	20.14.82.194
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	MyAzureVNet/default
DNS name	Configure

```
mahsan@lnxvm01:~  
-rw-rw-r-- 1 mahsan mahsan 3184910 Jul 24 12:58 pexels-mike-b-892522.jpg  
-rw-rw-r-- 1 mahsan mahsan 442431 Jul 24 12:58 pexels-photo-892522.jpeg  
mahsan@lnxmint:~/Downloads$ chmod 400 lnxvm01_key.pem  
mahsan@lnxmint:~/Downloads$ ssh -i lnxvm01_key.pem mahsan@20.14.82.194  
The authenticity of host '20.14.82.194 (20.14.82.194)' can't be established.  
ECDSA key fingerprint is SHA256:mZU2BhJWuXJdfN4+UJwyuAA3F667dFWy0+I7yUxa+fI.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '20.14.82.194' (ECDSA) to the list of known hosts.  
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.15.0-1014-azure x86_64)  
  
* Documentation: https://help.ubuntu.com  
* Management: https://landscape.canonical.com  
* Support: https://ubuntu.com/advantage  
  
System information as of Mon Aug 1 18:18:46 UTC 2022  
  
System load: 0.79 Processes: 109  
Usage of /: 4.9% of 28.89GB Users logged in: 0
```

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

```
mahsan@lnxvm01:~$  
mahsan@lnxvm01:~$ ip addr  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
        inet 127.0.0.1/8 scope host lo  
            valid_lft forever preferred_lft forever  
        inet6 ::1/128 scope host  
            valid_lft forever preferred_lft forever  
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000  
    link/ether 60:45:bd:c0:fd:f8 brd ff:ff:ff:ff:ff:ff  
        inet 10.0.0.4/24 brd 10.0.0.255 scope global eth0  
            valid_lft forever preferred_lft forever  
        inet6 fe80::6245:bdff:fed0:fdf8/64 scope link  
            valid_lft forever preferred_lft forever  
mahsan@lnxvm01:~$
```

Inbound port rules

Priority	Name	Port	Protocol	Source
300	SSH	22	TCP	Any
65000	AllowVnetInBound	Any	Any	VirtualNetwork
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer
65500	DenyAllInBound	Any	Any	Any

Add inbound security rule

Destination	Any
Service	Custom
Destination port ranges	80
Protocol	<input type="radio"/> Any <input checked="" type="radio"/> TCP <input type="radio"/> UDP <input type="radio"/> ICMP
Action	<input checked="" type="radio"/> Allow <input type="radio"/> Deny
Priority	310
Name	Port_80
Description	(empty)

Inbound port rules

Priority	Name	Port	Protocol	Source	Destination	Action
300	SSH	22	TCP	Any	Any	Allow
310	Port_80	80	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Checking for additional rules...

```

lnxvm01:~$ ifconfig
link/ether 60:45:bd:c0:fd:f8 brd ff:ff:ff:ff:ff:ff
inet 10.0.0.255 brd 10.0.0.255 scope global eth0
    valid_lft forever preferred_lft forever
inet6 fe80::5245:bfff:fe00:1d64 scope link
    valid_lft forever preferred_lft forever
msdn@lnxvm01:~$ sudo apt-get update
msdn@lnxvm01:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjbig0 libjpeg-turbo0 libjpeg8 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libtiff5 libwebp6
  libxml4 nginx-common nginx-core
Suggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libfontconfig1 libgd3 libjbig0 libjpeg-turbo0 libjpeg8 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream libtiff5 libwebp6
  libxml4 nginx nginx-common nginx-core
  
```

Microsoft Azure Upgrade

Home > Private DNS zones >

Private DNS zones

private.contoso.com ...

[Create](#) [Manage view](#) ...

Filter for any field... Name ↑

private.contoso.com ...

[Overview](#) [Activity log](#) [Access control \(IAM\)](#) [Tags](#) [Diagnose and solve problems](#)

[Settings](#) [Virtual network links](#) [Properties](#) [Locks](#)

[Monitoring](#) [Alerts](#) [Metrics](#)

[Automation](#) [Tasks \(preview\)](#) [Export template](#)

[Support + troubleshooting](#) [New Support Request](#)

Search record sets

Name	Type	TTL	Value	Auto registered
@	SOA	3600	Email: azureprivatedns-host.microsoft.com Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False
Inxvm01	A	10	10.0.0.4	True

Microsoft Azure Upgrade

Home > Virtual machines >

Create a virtual machine

Security type ① Standard

Image * ① Ubuntu Server 20.04 LTS - Gen2 (free services eligible)

Run with Azure Spot discount ①

Size * ① Standard_B1s - 1 vcpu, 1 GiB memory (US\$7.59/month) (free services eligible)

Administrator account

Authentication type ① 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 * ① azureuser

SSH public key source ① Use existing key stored in Azure

Stored Keys ① Inxvm01_key

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.

Public inbound ports * ① None

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

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

Home > Virtual machines >

Create a virtual machine

Basics Disks **Networking** Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.

[Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * ⓘ MyAzureVNet Create new

Subnet * ⓘ default (10.0.0.0/24) Manage subnet configuration

Public IP ⓘ (new) lnxvm02-ip Create new

NIC network security group ⓘ Basic None Advanced

Public inbound ports * ⓘ Allow selected ports None

Select inbound ports * SSH (22)

⚠ This will allow all IP addresses to access your virtual machine. This is only

Review + create < Previous Next : Management >

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

Home > Virtual machines >

Create a virtual machine

Basics Disks Networking Management Advanced Tags Review + create

Configure monitoring and management options for your VM.

Microsoft Defender for Cloud

Microsoft Defender for Cloud provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

Your subscription is protected by Microsoft Defender for Cloud basic plan.

Monitoring

Boot diagnostics Enable with managed storage account (recommended) Enable with custom storage account Disable

Enable OS guest diagnostics

Identity

Enable system assigned managed identity

Azure AD

Login with Azure AD

RBAC role assignment of Virtual Machine Administrator Login or Virtual Machine

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

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

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-2022080112239 | Overview X

Deployment

Search (Ctrl+F)

We'd love your feedback! →

Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f... Start time: 8/1/2022, 11:24:40 AM
Subscription: Azure subscription 1 Correlation ID: 1c1d8152-5a23-40b0-9b42-fdf66e871048

Inputs
Outputs
Template

Deployment details (Download)
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](#)

Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
[Set up cost alerts >](#)

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Microsoft Azure Upgrade

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220801112239 | Overview >

Inxvm02

Virtual machine

Search (Ctrl+F)

Connect Start Restart Stop Capture Delete Refresh Open in mobile CLI / PS

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 Configuration Identity Properties Locks

Essentials

Resource group (move) : myResourceGroup Status : Running Location : West US 3 (Zone 1) Subscription (move) : Azure subscription 1 Subscription ID : 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8 Availability zone : 1 Tags (edit) : Click here to add tags

Operating system : Linux (Ubuntu 20.04) Size : Standard_B1s (1 GB memory) Public IP address : 20.163.17.96 Virtual network/subnet : MyAzureVNet/default DNS name : Not configured

Properties **Monitoring** **Capabilities (7)** **Recommendations** **Tutorials**

Virtual machine

Computer name	Inxvm02	Public IP address	20.163.17.96
Health state	-	Public IP address (IPv6)	-
Operating system	Linux (Ubuntu 20.04)	Private IP address	10.0.0.5
Publisher	canonical	Private IP address (IPv6)	-
Offer	0001-com-ubuntu-server-focal	Virtual network/subnet	MyAzureVNet/default
Plan	20_04-its-gen2	DNS name	Configure
VM generation	V2	Size	Standard_B1s
Agent status	Ready		
Assess connection	2/2/20		

Networking

Size

```
</body>
</html>
root@lvmmss02:~# Connection to 20.163.17.1 closed by remote host.
Connection to 20.163.17.1 closed.
mahsan@lnxmint:~/Downloads$ ll
total 3608
drwxr-xr-x  2 mahsan mahsan    4096 Aug  1 11:17  .
drwxr-xr-x 22 mahsan mahsan    4096 Jul 27 15:38  ../
-rw-----  1 mahsan mahsan 12288 Jul 27 14:22 .asd.swp
-rw-rw-r--  1 mahsan mahsan 1449 Jul 23 10:28 AzureLinux-Cli-Notes.txt
-rw-rw-r--  1 mahsan mahsan 30599 Jul 23 12:23 'Create virtual machine using cli.txt'
-r-----  1 mahsan mahsan 2498 Aug  1 11:17 lnxvm01_key.pem
-rw-rw-r--  1 mahsan mahsan 3184910 Jul 24 12:58 pexels-mike-b-892522.jpg
-rw-rw-r--  1 mahsan mahsan 442431 Jul 24 12:58 pexels-photo-892522.jpeg
mahsan@lnxmint:~/Downloads$ ssh -i lnxvm01_key.pem mahsan@20.163.17.96
The authenticity of host '20.163.17.96 (20.163.17.96)' can't be established.
ECDSA key fingerprint is SHA256:/d/Xj93NQhfIv50guZNQKl1xOrlla2cyh5t+6CUEi0Y.
Are you sure you want to continue connecting (yes/no/[fingerprint])? 
```

Microsoft Azure Upgrade

Home > Private DNS zones >

Private DNS zones

Default Directory

+ Create Manage view ...

Filter for any field...

private.contoso.com

private.contoso.com

Activity log Access control (IAM) Tags Diagnose and solve problems

Settings

Virtual network links Properties Locks

Monitoring

Alerts Metrics Tasks (preview) Export template

Support + troubleshooting

New Support Request

Search (Ctrl+F)

+ Record set Move Delete zone Refresh

Essentials

Resource group (move) : myresourcegroup Subscription (move) : Azure subscription 1 Subscription ID : 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8 Tags (edit) : Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Auto registered
@	SOA	3600	Email: azureprivatedns-host.microsoft.com Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False
Inxvm01	A	10	10.0.0.4	True
Inxvm02	A	10	10.0.0.5	True
Inxvm03	A	10	10.0.0.6	True

JSON View

```

valid_lft forever preferred_lft forever
root@lnxvm03:~# ping lnxvm01
PING lnxvm01.gx0k1pkwfg5urhqcchuiuz4qqf.phxx.internal.cloudapp.net (10.0.0.4) 56(84) bytes of data.
64 bytes from lnxvm01.internal.cloudapp.net (10.0.0.4): icmp_seq=1 ttl=64 time=1.69 ms
64 bytes from lnxvm01.internal.cloudapp.net (10.0.0.4): icmp_seq=2 ttl=64 time=1.04 ms
^C
-< lnxvm01.gx0k1pkwfg5urhqcchuiuz4qqf.phxx.internal.cloudapp.net ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 1.038/1.364/1.691/0.326 ms
root@lnxvm03:~# ping lnxvm02
PING lnxvm02.gx0k1pkwfg5urhqcchuiuz4qqf.phxx.internal.cloudapp.net (10.0.0.5) 56(84) bytes of data.
64 bytes from lnxvm02.internal.cloudapp.net (10.0.0.5): icmp_seq=1 ttl=64 time=2.36 ms
64 bytes from lnxvm02.internal.cloudapp.net (10.0.0.5): icmp_seq=2 ttl=64 time=1.33 ms
^C
--- lnxvm02.gx0k1pkwfg5urhqcchuiuz4qqf.phxx.internal.cloudapp.net ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 1.334/1.846/2.359/0.512 ms
root@lnxvm03:~# 

```

Add record set

Name: db
private.contoso.com

Type: A – Alias record to IPv4 address
TTL: 1 Hours

IP address: 10.0.0.4
0.0.0.0

Name	Type	TTL	Value
@	SOA	3600	Email: azureprivatedns-host.microsoft.com Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1
lnxvm01	A	10	10.0.0.4
lnxvm02	A	10	10.0.0.5
lnxvm03	A	10	10.0.0.6

JSON View

Name	Type	TTL	Value	Auto registered
@	SOA	3600	Email: azureprivatedns-host.microsoft.com Host: azureprivatedns.net Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 10 Serial number: 1	False
db	A	3600	10.0.0.4	False
lnxvm01	A	10	10.0.0.4	True
lnxvm02	A	10	10.0.0.5	True
lnxvm03	A	10	10.0.0.6	True

```

root@lnxvm03:~# ping lnxvm01.private.contoso.com
PING lnxvm01.private.contoso.com (10.0.0.4) 56(84) bytes of data.
64 bytes from lnxvm01.internal.cloudapp.net (10.0.0.4): icmp_seq=1 ttl=64 time=0.715 ms
64 bytes from lnxvm01.internal.cloudapp.net (10.0.0.4): icmp_seq=2 ttl=64 time=1.04 ms
64 bytes from lnxvm01.internal.cloudapp.net (10.0.0.4): icmp_seq=3 ttl=64 time=1.14 ms
^C
-< lnxvm01.private.contoso.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 0.715/0.963/1.136/0.179 ms
root@lnxvm03:~# ping lnxvm03.private.contoso.com
PING lnxvm03.private.contoso.com (10.0.0.6) 56(84) bytes of data.
64 bytes from lnxvm03.internal.cloudapp.net (10.0.0.6): icmp_seq=1 ttl=64 time=0.012 ms
64 bytes from lnxvm03.internal.cloudapp.net (10.0.0.6): icmp_seq=2 ttl=64 time=0.045 ms
^C
--- lnxvm03.private.contoso.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.012/0.028/0.045/0.016 ms
root@lnxvm03:~#

```

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Home > payroll Resource group

Overview

Subscription (move) : Azure subscription 1
Subscription ID : 2f1c5134-8ec1-4472-a3cc-8c30fc0372c8
Tags (edit) : Click here to add tags

Essentials

Deployments : 5 Succeeded
Location : West US 3

Resources **Recommendations**

Filter for any field... Type equals all Location equals all Add filter

Showing 0 to 0 of 0 records. Show hidden types

Name ↑ Type ↑

No resources match your filters
Try changing or clearing your filters.
Create resources Clear filters

Notifications

More events in the activity log → Dismiss all

- Deleted resource group payroll (Running X) Deleting resource group payroll a few seconds ago
- Deleted resource group ahsan (Running X) Deleted resource group ahsan a few seconds ago
- Executed delete command on 20 selected items (Running X) Succeeded: 20, Failed: 0, Canceled: 0. a minute ago
- Executed delete command on 15 selected items (Running X) Succeeded: 15, Failed: 0, Canceled: 0. a minute ago
- Create record set (Running X) Successfully created record set 'd1' 22 minutes ago
- Deployment succeeded (Running X) Deployment 'CreateVm-canonical.0001-com-ubuntu-server-focal-2-20220801113323' to resource group 'myResourceGroup' was successful. Go to resource Pin to dashboard 29 minutes ago
- Deployment succeeded (Running X)

Microsoft Azure Upgrade

Search resources, services, and docs (G+)

Home > DNS zones Default Directory

DNS zones

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Name ↑	Numb... ↑	Resource group ↑	Location ↑
contoso.xyz	2 / 10000	msaResourceGroup	Global

No grouping List view

Subscription ↑ Azure subscription 1

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

Home > contoso.xyz DNS zone

Overview Record set Child zone Move Delete zone Refresh

Essentials

Resource group (move) : msaresourcegroup
Subscription (move) : Azure subscription 1
Subscription ID : 2ffc5134-8ec1-4472-a3cc-8c30fc0372c8

Name server 1 : ns1-38.azure-dns.com.
Name server 2 : ns2-38.azure-dns.net.
Name server 3 : ns3-38.azure-dns.org.
Name server 4 : ns4-38.azure-dns.info.

Tags (edit) Click here to add tags

You can search for record sets that have been loaded on this page. If you don't see what you're looking for, you can try scrolling to allow more record sets to load.

Search record sets

Name	Type	TTL	Value	Alias resource type	Alias target
@	NS	172800	ns1-38.azure-dns.com. ns2-38.azure-dns.net. ns3-38.azure-dns.org. ns4-38.azure-dns.info		...
@	SOA	3600	Email: azuredns-hostmaster.microsoft... Host: ns1-38.azure-dns.com. Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		...
www	A	3600	10.10.10.10		...

Activity log Access control (IAM) Tags Diagnose and solve problems

Monitoring

Alerts Metrics

Automation

Tasks (preview) Export template

Support + troubleshooting Resource health

JSON View

CA\$257.60 credit remaining Subscription 'Azure subscription 1' has a remaining credit of CA\$257.60. Upgrade to a Pay-As-You-Go subscription.

