

# MID-TERM

## PART1

lyubo1993\_1680276972701 | Overview

Deployment

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

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Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: lyubo1993\_1680276972701  
Subscription: Azure Pass - Sponsorship  
Resource group: RG01

Start time: 3/31/2023, 6:36:17 PM  
Correlation ID: 75c72d4e-44a3-4c2c-9923-ef52e4626ed3

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Cost Management

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lyubo9 | Static website

Storage account

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

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Save Discard Give feedback

Encryption

Microsoft Defender for Cloud

Data management

Redundancy

Data protection

Object replication

Blob inventory

Static website

Lifecycle management

Azure search

Settings

Configuration

Data Lake Gen2 upgrade

Resource sharing (CORS)

Advisor recommendations

Endpoints

Locks

Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. Learn more

Static website

Disabled Enabled

An Azure Storage container has been created to host your static website.

Web

Primary endpoint

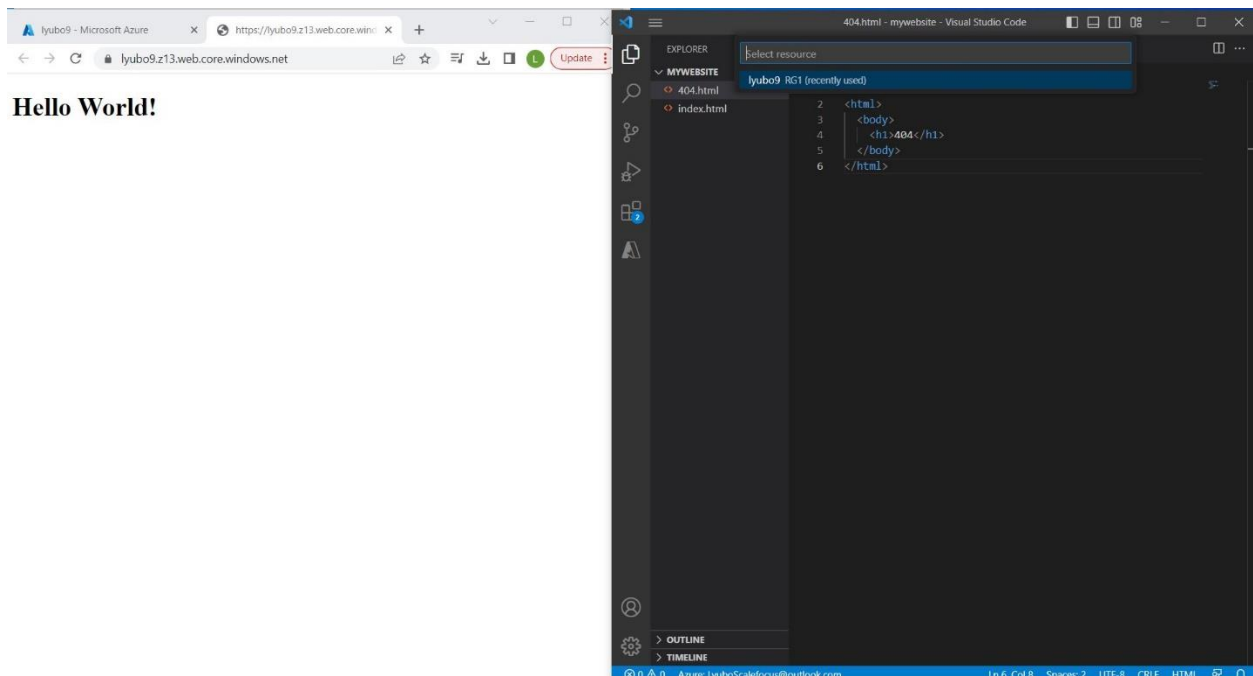
https://lyubo9.z13.web.core.windows.net/

Index document name

index.html

Error document path

404.html



## PART 2

### Create a virtual machine

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

Security type ☐ Trusted launch virtual machines  
[Configure security features](#)

Image \* ☐ Ubuntu Server 18.04 LTS - x64 Gen2  
[See all images](#) | [Configure VM generation](#)

VM architecture ☐ Arm64  
☒ x64

Run with Azure Spot discount ☐



Size \* ☐ Standard\_D2s\_v3 - 2 vcpus, 8 GiB memory (€59.10/month)  
[See all sizes](#)



**Administrator account**



Authentication type ☐ SSH public key  
☒ Password

Username \*  ✓

Password \*  ✓

Username \*  spytrail 

Password \*  ..... 


Confirm password \*  ..... 

#### 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

Select inbound ports \* SSH (22) 

 **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.

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## Create a virtual machine



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

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [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 Pass - Sponsorship 

Resource group \*  RG1 

[Create new](#)

#### Instance details

Virtual machine name \*  myVM 

Region \*  (US) East US 

Availability options  Availability zone 

Availability zone \*  Zones 1 

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

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## Create a virtual machine

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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](#)

#### VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host  ☐

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

#### OS disk

OS disk type \*  Premium SSD (locally-redundant storage) 

Delete with VM  ☒

Key management  Platform-managed key 

Enable Ultra Disk compatibility  ☐

Ultra disk is not supported with selected security type.

#### Data disks for myVM

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

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## Create a virtual machine

Basics Disks **Networking** Management Monitoring 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 *	<div>(new) my/VM-vnet</div> <div>Create new</div>
Subnet *	<div>(new) default (10.0.0.0/24)</div>
Public IP *	<div>(new) my/VM-ip</div> <div>Create new</div>
NIC network security group	<div><input type="radio"/> None</div> <div><input checked="" type="radio"/> Basic</div> <div><input type="radio"/> Advanced</div>
Public inbound ports *	<div><input type="radio"/> None</div> <div><input checked="" type="radio"/> Allow selected ports</div>
Select inbound ports *	<div>SSH (22)</div>

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```
spytrail@my/VM: ~
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>ssh spytrail@172.174.179.226
The authenticity of host '172.174.179.226 (172.174.179.226)' can't be established.
ECDSA key fingerprint is SHA256:HB8kt/DHEPC8B8lgrR7jJcrult3yApjcgz20s22MnA4.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '172.174.179.226' (ECDSA) to the list of known hosts.
spytrail@172.174.179.226's password:
Welcome to Ubuntu 18.04.6 LTS (GNU/Linux 5.4.0-1105-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Fri Mar 31 17:15:28 UTC 2023

System load:  0.41          Processes:      121
Usage of /:   4.5% of 28.89GB Users logged in:  0
Memory usage: 2%           IP address for eth0: 10.0.0.4
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

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.

spytrail@my/VM:~$
```

```

spytrail@myVM: ~
spytrail@myVM:~$ sudo apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0
  ssl-cert
Suggested packages:
  www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap
  liblua5.2-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 0 not upgraded.
Need to get 1730 kB of archives.
After this operation, 7000 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://azure.archive.ubuntu.com/ubuntu bionic/main amd64 libapr1 amd64 1.6.3-2 [90.9 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libaprutil1 amd64 1.6.1-2ubuntu0.1 [84.6 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-2ubuntu0.1 [10.6 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libaprutil1-ldap amd64 1.6.1-2ubuntu0.1 [8792 B]
Get:5 http://azure.archive.ubuntu.com/ubuntu bionic/main amd64 liblua5.2-0 amd64 5.2.4-1.1build1 [108 kB]
Get:6 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-bin amd64 2.4.29-1ubuntu4.27 [1071 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-utils amd64 2.4.29-1ubuntu4.27 [83.3 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-data all 2.4.29-1ubuntu4.27 [160 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2 amd64 2.4.29-1ubuntu4.27 [95.1 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu bionic/main amd64 ssl-cert all 1.0.39 [17.0 kB]
Fetched 1730 kB in 0s (4533 kB/s)
Preconfiguring packages ...
Selecting previously unselected package libapr1:amd64.
(Reading database ... 59110 files and directories currently installed.)
Preparing to unpack .../0-libapr1-1.6.3-2_amd64.deb ...
Unpacking libapr1:amd64 (1.6.3-2) ...
Selecting previously unselected package libaprutil1:amd64.
Preparing to unpack .../1-libaprutil1-1.6.1-2ubuntu0.1_amd64.deb ...
Unpacking libaprutil1:amd64 (1.6.1-2ubuntu0.1) ...
Selecting previously unselected package libaprutil1-dbd-sqlite3:amd64.
Preparing to unpack .../2-libaprutil1-dbd-sqlite3-1.6.1-2ubuntu0.1_amd64.deb ...
Unpacking libaprutil1-dbd-sqlite3:amd64 (1.6.1-2ubuntu0.1) ...
Selecting previously unselected package libaprutil1-ldap:amd64.
Preparing to unpack .../3-libaprutil1-ldap-1.6.1-2ubuntu0.1_amd64.deb ...
Unpacking libaprutil1-ldap:amd64 (1.6.1-2ubuntu0.1) ...
Selecting previously unselected package liblua5.2-0:amd64.
Preparing to unpack .../4-liblua5.2-0-5.2.4-1.1build1_amd64.deb ...
Unpacking liblua5.2-0:amd64 (5.2.4-1.1build1) ...
Selecting previously unselected package apache2-bin.
Preparing to unpack .../5-apache2-bin-2.4.29-1ubuntu4.27_amd64.deb ...
Unpacking apache2-bin (2.4.29-1ubuntu4.27) ...
Selecting previously unselected package apache2-utils.
Preparing to unpack .../6-apache2-utils-2.4.29-1ubuntu4.27_amd64.deb ...
Unpacking apache2-utils (2.4.29-1ubuntu4.27) ...

```

```

spytrail@myVM: /var/www/html$ sudo nano index.html
spytrail@myVM: /var/www/html$

```

myVM | Networking

Virtual machine

Search

Networking

Connect

Disks

Size

Microsoft Defender for Cloud

Advisor recommendations

Extensions + applications

Continuous delivery

Availability + scaling

Configuration

Identity

Properties

Locks

Operations

Bastion

Auto-shutdown

Backup

Disaster recovery

Feedback

Attach network interface

Detach network interface

IP configuration

ipconfig1 (Primary)

Network interface: myvm631\_z1

Effective security rules

Troubleshoot VM connection issues

Virtual network/subnet: myVM-vnet/default

NIC Public IP: 172.174.179.226

NIC Private IP: 10.0.0.4

Inbound port rules

Outbound port rules

Application security groups

Load balancing

Network security group myVMnsg431 (attached to network interface: myvm631\_z1)

Impacts 0 subnets, 1 network interfaces

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

Need help?

Understand Azure load balancing

Quickstart: Create a public load balancer to load balance Virtual Machines

Quickstart: Direct web traffic with Azure Application Gateway

myVMnsg431

Creating security rule

Creating security rule 'AllowMyIpAddressCustom80Inbound'.

Service

Custom

Destination port ranges

80

Protocol

Any

TCP

UDP

ICMP

Action

Allow

Deny

Priority

310

Name

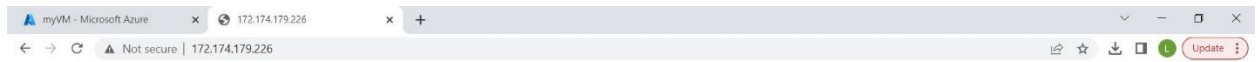
AllowMyIpAddressCustom80Inbound

Description

Add

Cancel

Give feedback



**Hello World!**