

MICROSOFT AZURE

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REQUESTING A CLOUD SHELL SUCCEEDED. CONNECTING TERMINAL...

Welcome to Azure Cloud Shell

- Creating an Resource(Virtual Machine) in Microsoft Azure

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes 'Microsoft Azure', a search bar, and various account and service links. Below the navigation is a breadcrumb trail: 'Home > Virtual machines'. A sidebar on the left lists options: '+ Create', 'Switch to classic', 'Reservations', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', 'Start', 'Restart', 'Stop', 'Delete', and 'Service'. The main content area displays a table of virtual machines. The columns are: Subscription (Azure for Students), Resource group (deploymentworkspace_g...), Location (Central India), Status (Stopped (deallocated)), Operating system (Linux), and Size (Standard_D2s_v3). There are filters at the top of the table: 'Type equals all', 'Resource group equals all', 'Location equals all', and a 'Add filter' button. A 'More VMs and related solutions' link is also visible.

- Configure the basics like Subscription, Resource group, VM name, Region, Image, and Size, set up the administrator account with SSH key or Password, configure disk and networking options, review and create the VM, and access it via SSH (Linux) or RDP (Windows) once deployed.

The screenshot shows the Microsoft Azure Deployment Overview page. At the top, it displays the deployment name: 'CreateVm-canonical.ubuntu-24_04-lts-server-20240809212956'. Below this, a green checkmark icon indicates that the deployment is complete. The page includes sections for 'Deployment details' and 'Next steps', which provide recommendations for auto-shutdown, monitoring, and running scripts. At the bottom, there are buttons for 'Go to resource' and 'Create another VM'. To the right of the main content area, there are promotional cards for 'Cost Management', 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'.

- After Deployment click Go to The Resource and Connect the Virtual Machine

The screenshot shows the Microsoft Azure Virtual Machine Connect page for the same deployment. It displays the public IP address '20.244.45.85'. The 'Connect' section is expanded, showing various methods to access the machine, including 'SSH using Azure CLI' and 'Native SSH'. Each method has a 'Select' button and a heart icon. A link at the bottom left leads to 'More ways to connect (3)'. The left sidebar contains a navigation menu with categories like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Connect, Network settings, Application security groups, Network manager, Settings, Extensions + applications, Operating system, Configuration, Advisor recommendations, Properties, Locks, Availability + scale, and Size.

- **Accessing Linux Virtual Machine in CLI:**
- “ssh your-username@your-vm-ip”

```
Last login: Fri Aug  9 21:36:24 on ttys000
(base) santosh@Santoshs-MacBook-Air ~ % ssh santosh@20.244.45.85
The authenticity of host '20.244.45.85 (20.244.45.85)' can't be established.
ED25519 key fingerprint is SHA256:TIX1N9i74gPWSwPBOThzUhILSwojAkOMDQtm/E8wqyU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? 
```

```
Last login: Fri Aug  9 21:36:24 on ttys000
(base) santosh@Santoshs-MacBook-Air ~ % ssh santosh@20.244.45.85
The authenticity of host '20.244.45.85 (20.244.45.85)' can't be established.
ED25519 key fingerprint is SHA256:TIX1N9i74gPWSwPBOThzUhILSwojAkOMDQtm/E8wqyU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '20.244.45.85' (ED25519) to the list of known hosts.
santosh@20.244.45.85's password:
Permission denied, please try again.
santosh@20.244.45.85's password:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1010-azure x86_64)

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

System information as of Fri Aug  9 16:07:36 UTC 2024

 System load:  0.03      Processes:          136
 Usage of /:   5.0% of 28.02GB  Users logged in:   0
 Memory usage: 3%          IPv4 address for eth0: 10.1.0.4
 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.

santosh@Portfolio:~ $ 
```

- “sudo apt update”

```
santosh@Portfolio:~$ sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu noble-backports InRelease [124 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu noble-security InRelease [12x kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu noble-universe Translation-en [15.8 kB]
Get:6 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [3871 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 Components [381 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:13 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [344 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [86.7 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [5716 B]
Get:16 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [321 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [135 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [45.0 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [12.7 kB]
Get:20 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [241 kB]
Get:21 http://azure.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [47.0 kB]
Get:22 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [14.1 kB]
Get:23 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3680 B]
Get:24 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [212 kB]
Get:25 http://azure.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [532 B]
Get:26 http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [268 kB]
Get:27 http://azure.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:28 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [10.3 kB]
Get:29 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.5 kB]
Get:30 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [10.5 kB]
Get:31 http://azure.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1016 B]
Get:32 http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:33 http://azure.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
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Get:36 http://azure.archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [288 kB]
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Get:45 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [10.6 kB]
Get:46 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2888 B]
Get:47 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:48 http://azure.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [344 B]
Fetched 28.3 MB in 5s (6211 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
16 packages can be upgraded. Run 'apt list --upgradable' to see them.
santosh@Portfolio:~$
```

- “sudo apt install git”

```
Get:7 http://azure.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
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santosh@Portfolio:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.1).
git set manually installed.
0 upgraded, 0 newly installed, 0 to remove and 16 not upgraded.
santosh@Portfolio:~$
```

- “sudo apt install nginx”

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16 packages can be upgraded. Run 'apt list --upgradable' to see them.
santosh@Portfolio:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.1).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 16 not upgraded.
santosh@Portfolio:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 16 not upgraded.
Need to get 552 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Do you want to continue? [Y/n] ■
```

- “sudo systemctl start nginx”
- “sudo systemctl enable nginx”

```
16 packages can be upgraded. Run 'apt list --upgradable' to see them.
santosh@Portfolio:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
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git is already the newest version (1:2.43.0-1ubuntu7.1).
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  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 16 not upgraded.
Need to get 552 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://azure.archive.ubuntu.com/ubuntu noble/main amd64 nginx-common all 1.24.0-2ubuntu7 [31.2 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu noble/main amd64 nginx amd64 1.24.0-2ubuntu7 [521 kB]
Fetched 552 kB in 0s (18.0 MB/s)
Preconfiguring packages...
Selecting previously unselected package nginx-common.
(Reading database ... 64537 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7) ...
Setting up nginx (1.24.0-2ubuntu7) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
santosh@Portfolio:~$ sudo systemctl start nginx
santosh@Portfolio:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/system-sysv-install.
Executing: /usr/lib/systemd/system-sysv-install enable nginx
santosh@Portfolio:~$ ■
```

- “cd /var/www/html”
- “sudo rm -rf *”
- “sudo git clone https://github.com/GNiruthian/Login-Page-using-html-css.git .”
- “sudo chown -R www-data:www-data /var/www/html”

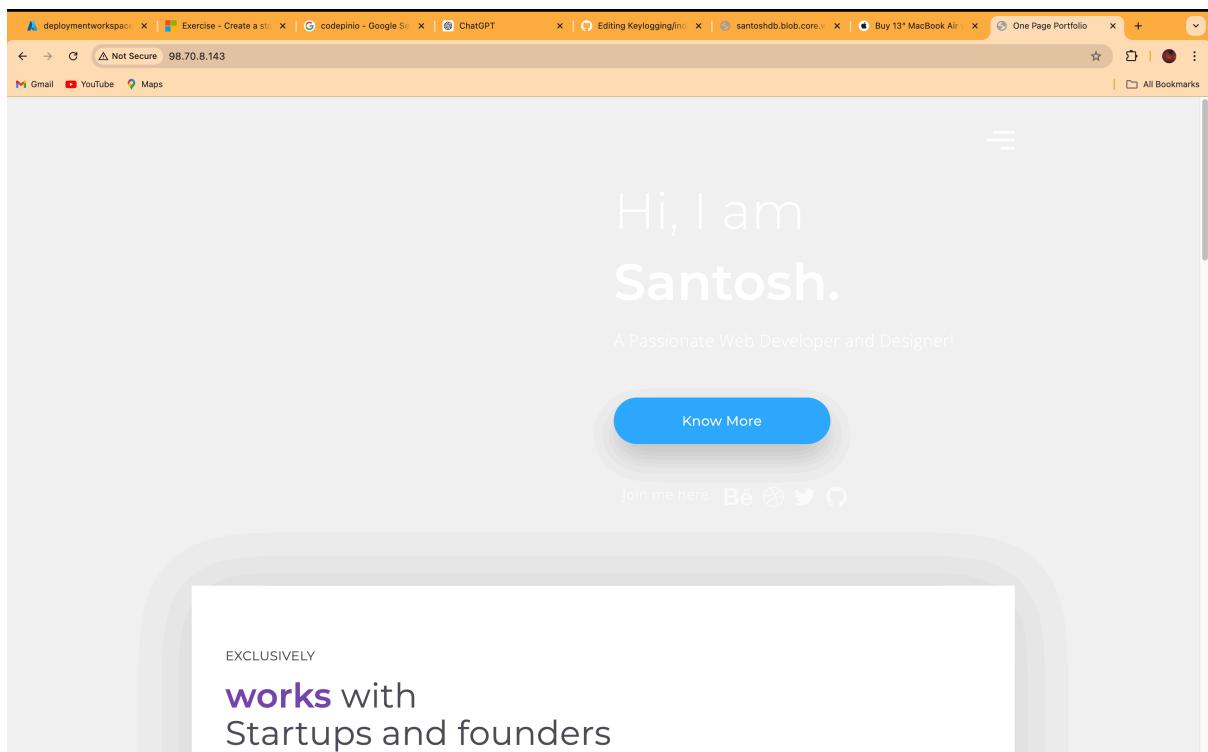
```

Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 16 not upgraded.
Need to get 552 kB of archives.
After this operation, 1504 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://azure.archive.ubuntu.com/ubuntu noble/main amd64 nginx-common all 1.24.0-2ubuntu7 [31.2 kB]
Get:2 http://azure.archive.ubuntu.com/ubuntu noble/main amd64 nginx amd64 1.24.0-2ubuntu7 [621 kB]
Fetched 552 kB in 0s (10.0 MB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 64517 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7) ...
Setting up nginx (1.24.0-2ubuntu7) ...
Setting up nginx-common (1.24.0-2ubuntu7) ...
Creating symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
santosh@Portfolio:~$ sudo systemctl start nginx
santosh@Portfolio:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
santosh@Portfolio:~$ cd /var/www/html
santosh@Portfolio:/var/www/html$ sudo rm -rf *
santosh@Portfolio:/var/www/html$ sudo git clone https://github.com/santosh-o2/Santosh-s-Portfolio.git
Cloning into 'Santosh-s-Portfolio'...
remote: Enumerating objects: 92, done.
remote: Counting objects: 100% (92/92), done.
remote: Compressing objects: 100% (81/81), done.
remote: Total 92 (delta 8), reused 8 (delta 8), pack-reused 0
Receiving objects: 100% (92/92), 2.81 MiB | 9.41 MiB/s, done.
Resolving deltas: 100% (1/1), done.
santosh@Portfolio:/var/www/html$ 

```

- Copy the public IP, paste it into your browser, and your cloned repository project will be displayed.



- **Creating a Storage Blob**
- Select Review to check your storage account settings. After validation, click Create and wait for the success notification. Then, select Go to resource.
- Select Create a resource, choose Storage, then Storage account, and click Create. Fill in the required fields in the Basics tab and keep the default settings.

- Browse for the image file, select it, then click Upload.

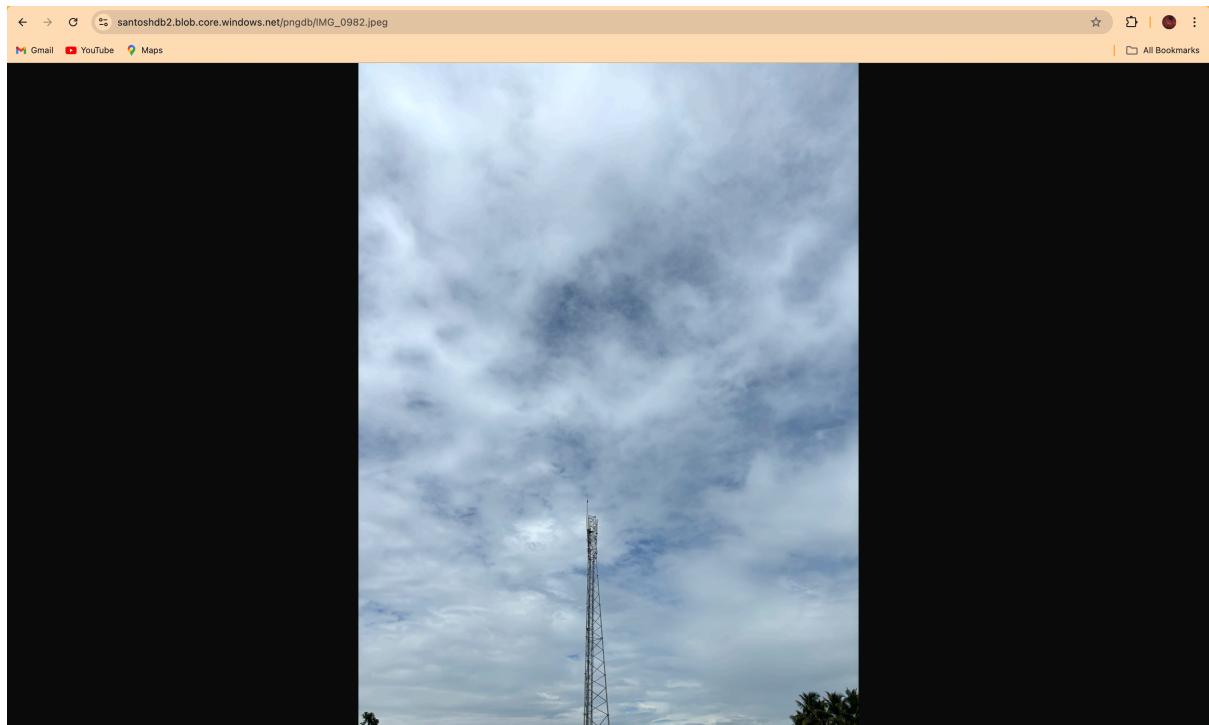
Name	Modified	Access tier	Archive status	Blob type	Size	Lease state	...
IMG_1037.jpeg	8/10/2024, 10:21:08 AM	Hot (Inferred)		Block blob	3.05 MiB	Available	...
IMG_0982.jpeg	8/10/2024, 10:21:16 AM	Hot (Inferred)		Block blob	1.81 MiB	Available	...

- Select the blob (file) you just uploaded to access the Properties tab, then copy the URL from the URL field.

The screenshot shows the Azure Storage Blob Properties page for a file named 'IMG_0982.jpeg'. The URL field contains the value 'https://santoshdb2...'. The properties listed include:

Property	Value
URL	https://santoshdb2...
LAST MODIFIED	8/10/2024, 10:21:08 AM
CREATION TIME	8/10/2024, 10:21:08 AM
VERSION ID	-
TYPE	Block blob
SIZE	1.81 MiB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-
REHYDRATE PRIORITY	-
SERVER ENCRYPTED	true
ETAG	0x8DCB8F80CACEF42
VERSION-LEVEL IMMUTABILITY POLICY	Disabled
CACHE-CONTROL	[empty]
CONTENT-TYPE	image/jpeg
CONTENT-MD5	+WQrCG4aNYRhSxdGhc...
CONTENT-ENCODING	[empty]
CONTENT-LANGUAGE	[empty]
CONTENT-DISPOSITION	[empty]
LEASE STATUS	Unlocked
LEASE STATE	Available
LEASE DURATION	-
COPY STATUS	-
COPY COMPLETION TIME	-

- Copy the URL from the URL field and paste it into a new browser tab.



- **Compare workload costs using the TCO Calculator**

Total Cost of Ownership (TCO) Calculator
Estimate the cost savings you can realize by migrating your workloads to Azure

1 Define your workloads 2 Adjust assumptions 3 View report

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Define your workloads
Enter the details of your on-premises workloads. This information will be used to understand your current TCO and recommended services in Azure.

Servers
Enter the details of your on-premises server infrastructure. After adding a workload, select the workload type and enter the remaining details.

+ Add server workload

Databases
Enter the details of your on-premises database infrastructure. After adding a database, enter the details of your on-premises database infrastructure in the Source section. In the Destination section, select the Azure service you would like to use.

+ Add database

- Enter your on-premises infrastructure specifications into the TCO Calculator. Go to the TCO Calculator, then under Define your workloads, select Add server workload to create a row for your Windows Server VMs. Set the required values for each setting. Next, add a second row for your Linux VMs by selecting Add server workload and specifying the necessary settings. Under Storage, select Add storage and specify the relevant settings. Finally, under Networking, set the Outbound bandwidth to 15 TB.

Define your workloads
Enter the details of your on-premises workloads. This information will be used to understand your current TCO and recommended services in Azure.

Servers
Enter the details of your on-premises server infrastructure. After adding a workload, select the workload type and enter the remaining details.

Workload	Environment	Operating system	Operating System License	Servers	Procs per server
Windows/Linux Server	Physical Servers	Windows	Datacenter	1 (1 - 9999)	1 (1 - 4)
Core(s) per proc	RAM (GB)	Optimize by	GPU	Windows Server 2008/2008 R2	
1 (1 - 8)	1 (1 - 448)	CPU	None		

+ Add server workload

Databases
Enter the details of your on-premises database infrastructure. After adding a database, enter the details of your on-premises database infrastructure in the Source section. In the Destination section, select the Azure service you would like to use.

+ Add database

Azure (1 - 8) (1 - 446)

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[+ Add server workload](#)

Databases

Enter the details of your on-premises database infrastructure. After adding a database, enter the details of your on-premises database infrastructure in the Source section. In the Destination section, select the Azure service you would like to use.

[+ Add database](#)

Storage

Enter the details of your on-premises storage infrastructure. After adding storage, select the storage type and enter the remaining details.

[Storage 1](#)

Storage type	Disk type	Capacity	Backup	Archive
Local Disk/SAN	HDD	60 TB (1 - 5000)	120 TB (0 - 5000)	0 TB (0 - 5000)

[+ Add storage](#)

Networking

Enter the amount of network bandwidth you currently consume in your on-premises environment.

Outbound bandwidth	Destination Region
15 GB (1 - 2000000)	East Asia

[Next](#)

- Click on View Report and set the Time Frame to 3 years and Region as North Europe

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Total Cost of Ownership (TCO) Calculator

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View report

Timeframe	Region	Licensing program	Show Dev/Test Pricing
3 Years	North Europe	Microsoft Online Services Program	<input checked="" type="radio"/>

Over 3 year(s) with Microsoft Azure, your estimated cost savings could be as much as **\$355,703**

