

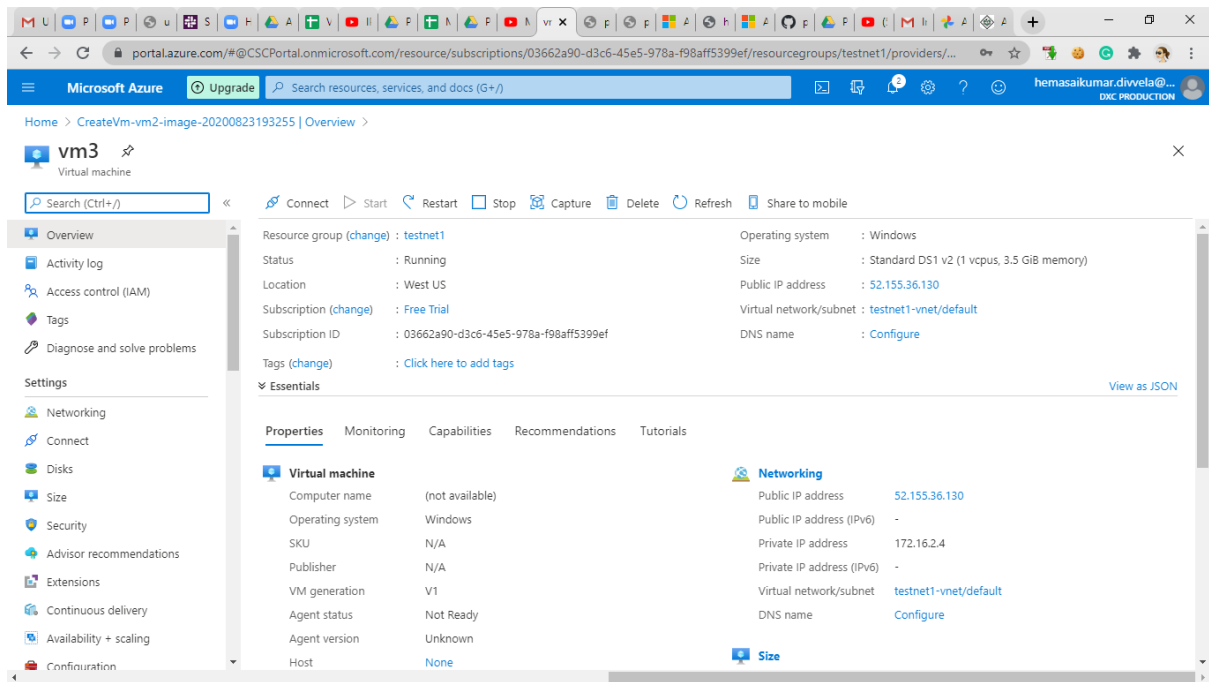
Assignment-3

1. Deploying the custom image with any application installed

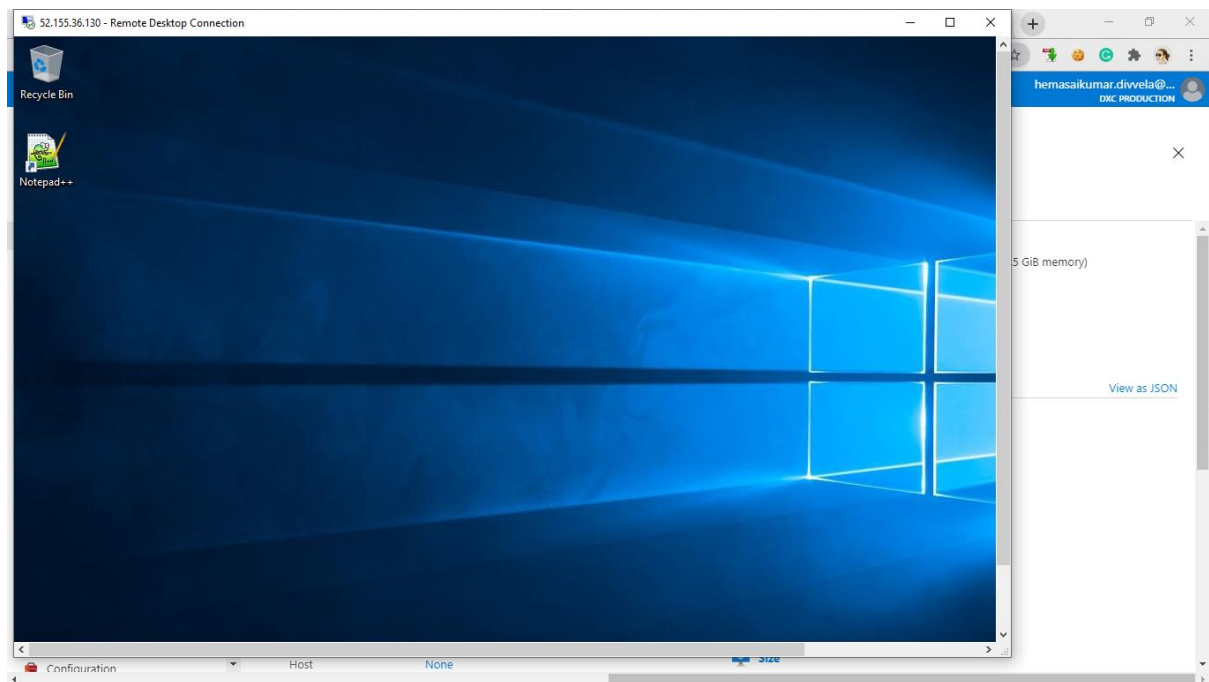
The screenshot displays the Azure portal interface for a virtual machine named 'vm2'. The left sidebar shows navigation options like Overview, Activity log, Access control, and Settings. The main pane shows the 'Overview' tab with details for the 'testnet' resource group, including its status (Stopped), location (West US), and subscription ID. A 'Notifications' panel on the right provides a timeline of actions: creating the image, generalizing the VM, stopping it, and starting it again. A credit notification indicates ₹6,483.44 remaining on the 'Free Trial' subscription.

while creating the image select from my items.

This screenshot shows the 'Create a virtual machine' wizard in the Azure portal. The 'Select an image' step is currently selected, displaying a list of available images. The 'My Items' tab is active, showing two custom images: 'testvm-1-image-20200807170253' and 'vm2-image'. Both images are from the 'Microsoft.Compute/images' publisher and are associated with a 'Free Trial' subscription. The left sidebar contains configuration options for the virtual machine, including Subscription, Resource group, Instance details, and Image selection.



Deploying the custom image with Notepad++ Application.



2. Creating the two networks in East Asia and west us.

The screenshot shows the Azure portal interface for a virtual network named 'testvm3'. The left sidebar contains navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, Connected devices, Subnets, DDoS protection, Firewall, Security, DNS servers, Peerings, Service endpoints, and Private endpoints. The main content area displays the 'Overview' tab for 'testvm3'. It shows the resource group 'testnet1', location 'East Asia', address space '172.0.0/16', and DNS servers 'Azure provided DNS service'. The 'Essentials' section shows 'Connected devices' with a search bar and a table with columns: Device, Type, IP Address, and Subnet. The table currently shows 'No results'.

The screenshot shows the Azure portal interface for a virtual network named 'testvm1'. The left sidebar contains navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Address space, Connected devices, Subnets, DDoS protection, Firewall, Security, DNS servers, Peerings, Service endpoints, and Private endpoints. The main content area displays the 'Overview' tab for 'testvm1'. It shows the resource group 'testnet', location 'West US', address space '10.0.0/8', and DNS servers 'Azure provided DNS service'. The 'Essentials' section shows 'Connected devices' with a search bar and a table with columns: Device, Type, IP Address, and Subnet. The table lists four network interfaces:

Device	Type	IP Address	Subnet
vm1656	Network interface	10.1.0.4	subnet1
vm2125	Network interface	10.1.0.5	subnet1
vm2236	Network interface	10.1.0.6	subnet1
vm02-nic-a39cd8b98f54473ab4642516e5...	Network interface	10.1.0.7	subnet1

To peer the network using Network Peering and access the VM using private from one location to other location

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

Home > Virtual networks >

testvm1 | Peerings

Search (Ctrl+)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Address space

Connected devices

Subnets

DDoS protection

Firewall

Security

DNS servers

Peerings

Service endpoints

Private endpoints

+ Add Refresh

Filter by name...

Name	Peering status	Peer	Gateway transit
westustoeastasia	Connected	testvm3	Disabled

104.40.21.207 - Remote Desktop Connection

Recycle Bin

Remote Desktop Connection

Windows Security

Enter your credentials

These credentials will be used to connect to 52.184.36.55.

User name

Password

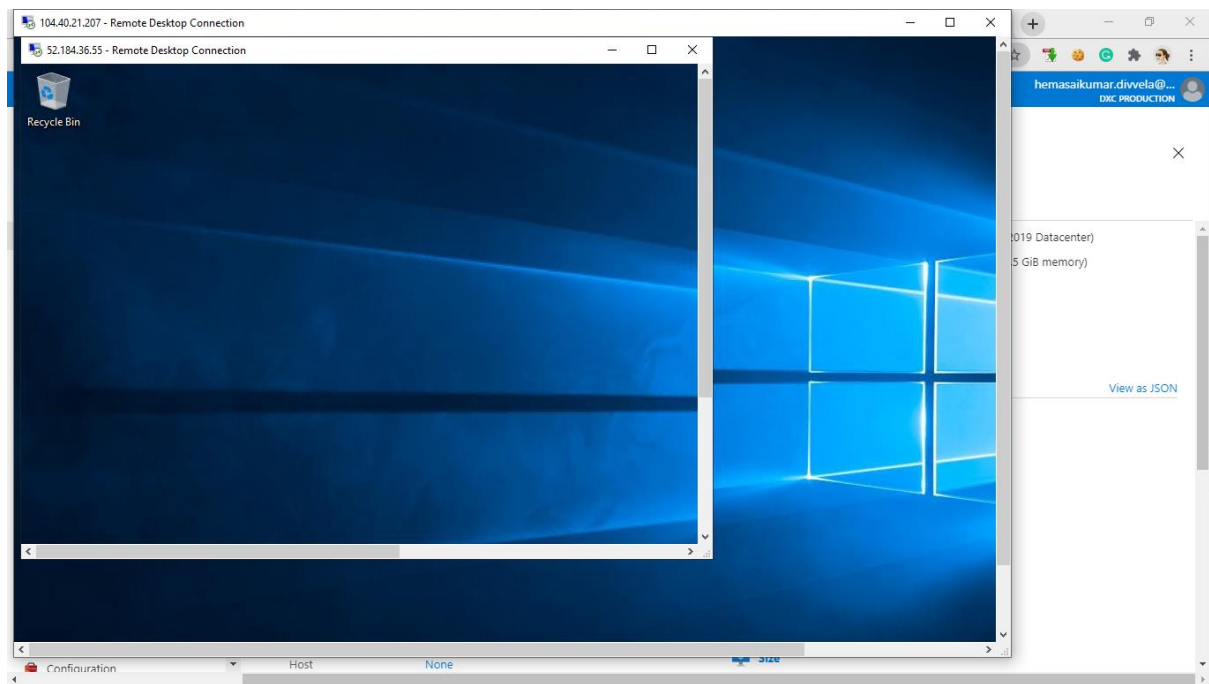
☐ Remember me

OK Cancel

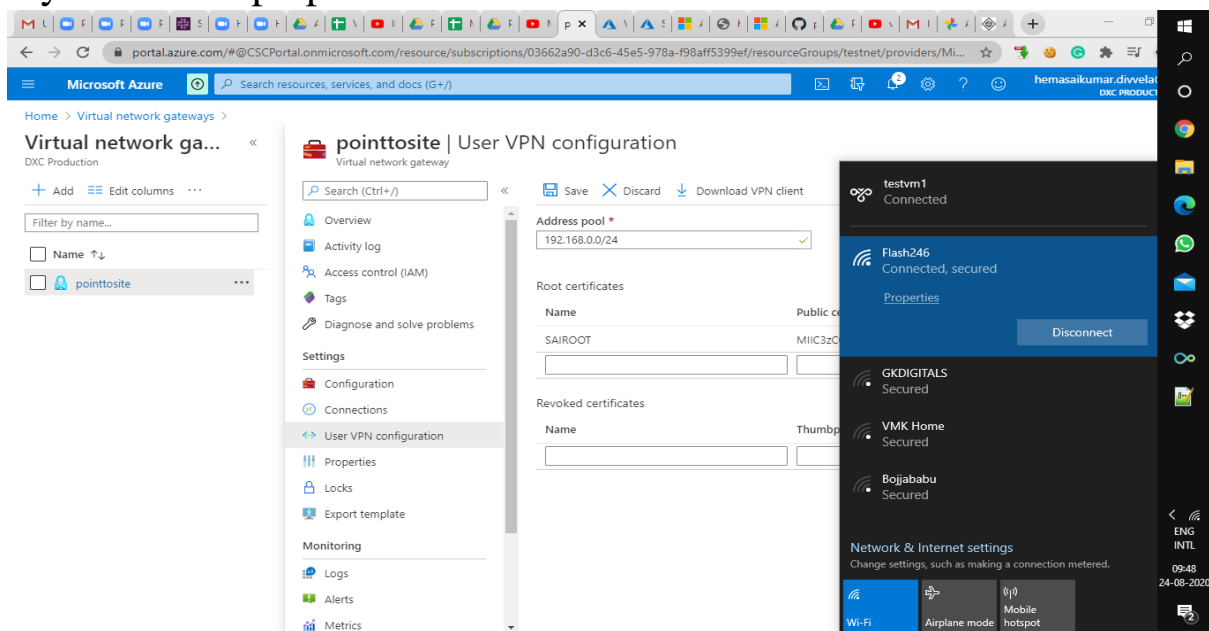
Configuration

Host

None



Creating a Point to site VPN in west us location and try connect from my location laptop to Azure data centre.



Microsoft Azure portal interface showing the configuration of a User VPN configuration for a virtual network gateway named 'pointtosite'.

Virtual network gateway configuration options:

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Configuration
 - Connections
 - User VPN configuration (selected)
 - Properties
 - Locks
 - Export template
- Monitoring
 - Logs
 - Alerts
 - Metrics

User VPN configuration details:

- Address pool: 192.168.0.0/24
- Root certificates: SAIROOT (Public certificate data: MIIC3zCCAcegAwIBAgIQEeRa4o6d67tNZclV7nzDJDANBgkqhkiG9w0BAQ...)
- Revoked certificates: (Empty table)
- Allocated IP addresses: 192.168.0.2

Microsoft Azure portal interface showing the configuration of a virtual machine named 'vm2'.

Virtual machine configuration options:

- Overview (selected)
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Networking
 - Connect
 - Disks
 - Size
 - Security
 - Advisor recommendations
 - Extensions
 - Continuous delivery
 - Availability + scaling
 - Configuration

Virtual machine details:

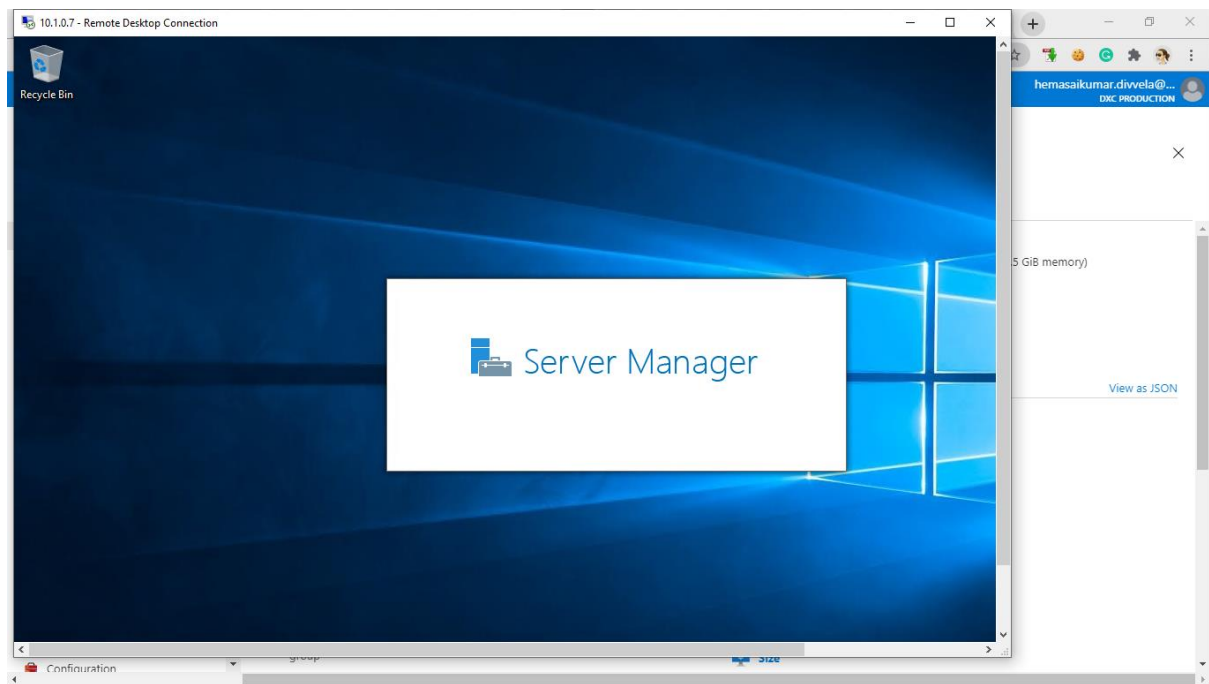
- Resource group: (change)
- Status: (change)
- Location: (change)
- Subscription: (change)
- Subscription ID: (change)
- Tags: (change)

Essentials:

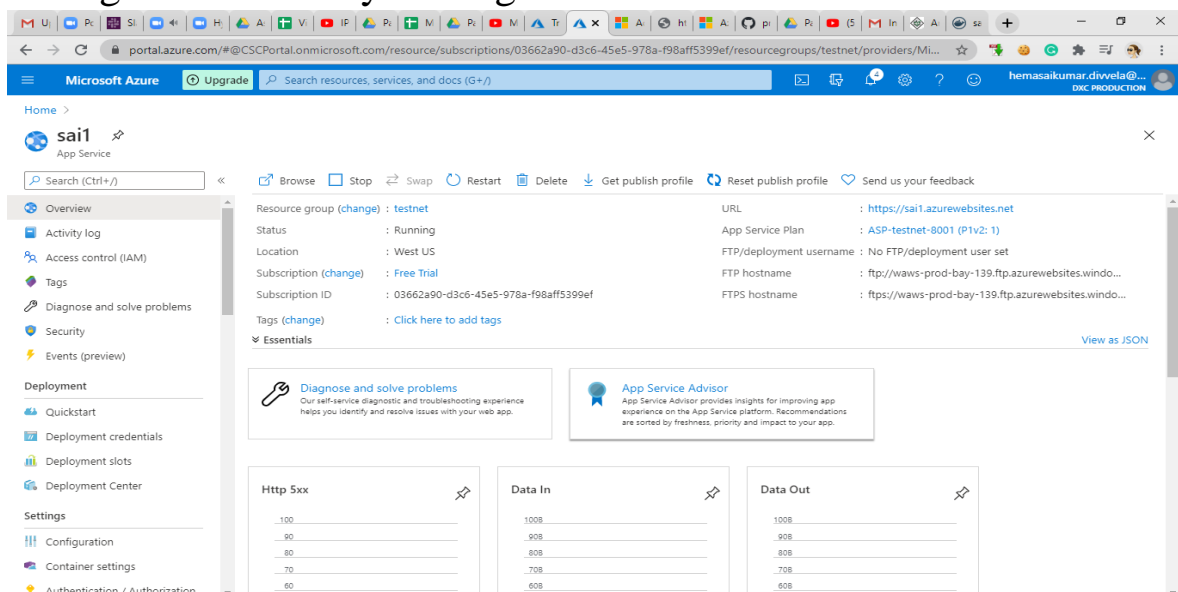
- Properties
 - Virtual machine
 - Computer name: (not available)
 - Operating system: Windows
 - SKU: 2019-Datacenter
 - Publisher: MicrosoftWindowsServer
 - VM generation: V1
 - Host: None
 - Proximity placement group: N/A
- Monitoring
- Capabilities
- Recommendations
- Tutorials

Networking details:

- Public IP address: 104.40.21.207
- Public IP address (IPv6): -
- Private IP address: 10.1.0.7
- Private IP address (IPv6): -
- Virtual network/subnet: testvm1/subnet1
- DNS name: Configure



Creating the two web applications and putting those apps under traffic manager with Priority routing method



Microsoft Azure portal showing the overview of an App Service named **sai2**. The interface includes a left sidebar with navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Security, Events (preview), Deployment, Quickstart, Deployment credentials, Deployment slots, Deployment Center, Settings, Configuration, and Container settings.

The main content area displays the App Service details for **sai2**, including the Resource group (**testnet1**), Status (**Running**), Location (**East US**), Subscription (**Free Trial**), and Subscription ID (**03662a90-d3c6-45e5-978a-f98aff5399ef**). It also shows the URL (**https://sai2.azurewebsites.net**), App Service Plan (**ASP-testnet1-8e86 (P1v2: 1)**), FTP/deployment username (**No FTP/deployment user set**), FTP hostname (**ftp://waws-prod-blu-173.ftp.azurewebsites.windo...**), and FTPS hostname (**ftps://waws-prod-blu-173.ftp.azurewebsites.windo...**).

Below the details, there are three charts: **Http 5xx**, **Data In**, and **Data Out**, each showing a line graph with a blue line representing the data over time. The **Http 5xx** chart shows a peak around 2.5. The **Data In** chart shows a peak around 2.2kB. The **Data Out** chart shows a peak around 1.8kB.

Microsoft Azure portal showing the overview of a Traffic Manager profile named **trafficdxc**. The interface includes a left sidebar with navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Configuration, Real user measurements, Traffic view, Endpoints, Properties, Locks, Export template, Monitoring, Alerts, and Metrics.

The main content area displays the Traffic Manager profile details for **trafficdxc**, including the Name (**trafficdxc**), Status (**Enabled**), Monitor status (**Degraded**), Type (**Azure endpoint**), and Priority (**1**). It also shows a table of endpoints:

Name	Status	Monitor status	Type	Priority
endpoint1	Enabled	Degraded	Azure endpoint	1
endpoint2	Enabled	Checking endpoint	Azure endpoint	2

Create a Backup solution for the Vm and assign a daily policy to the VM with 10 days retention period

The screenshot shows the Microsoft Azure portal interface for modifying a backup policy. The browser address bar shows the URL: `portal.azure.com/#@CSCPortal.onmicrosoft.com/resource/subscriptions/03662a90-d3c6-45e5-978a-f98aff5399ef/resourceGroups/testnet/providers/Mi...`. The page title is "Modify policy" for the policy named "saipolicy".

At the top, there are navigation links: Home > Recovery Services vaults > saivault | Backup policies > saipolicy >. Below the title, there are buttons for "Associated items", "Save", and "Discard".

The main configuration section is titled "Instant Restore" and includes the following settings:

- Retain instant recovery snapshot(s) for:** A dropdown menu set to "2" with a checkmark and a "Day(s)" label.
- Retention range:** A section with two checkboxes:
 - ☒ Retention of daily backup point. Below this, there are fields for "At" (set to "6:30 PM") and "For" (set to "10" with a checkmark and "Day(s)" label).
 - ☒ Retention of weekly backup point. Below this, there are fields for "On *" (set to "Sunday"), "At" (set to "6:30 PM"), and "For" (set to "12" with a checkmark and "Week(s)" label).
- ☒ Retention of monthly backup point.

At the bottom, there are two tabs: "Week Based" (selected) and "Day Based". Below these tabs, there are labels for "On *", "Day *", "At", and "For".

Microsoft Azure portal showing the Backup configuration for a Recovery Services vault named 'saivault'.

Backup Configuration Summary:

- Policy:** saipolicy (Create a new policy)
- BACKUP FREQUENCY:** Daily at 6:30 PM India Standard Time
- Instant Restore:** Retain instant recovery snapshot(s) for 2 day(s)
- RETENTION RANGE:**
 - Retention of daily backup point:** Retain backup taken every day at 6:30 PM for 10 Day(s)
 - Retention of weekly backup point:** Retain backup taken every week on Sunday at 6:30 PM for 12 Week(s)
 - Retention of monthly backup point:** Retain backup taken every month on First Sunday at 6:30 PM for 60 Month(s)
 - Retention of yearly backup point:**

Backup Item Details (vm2):

- Alerts and Jobs:** View all Alerts (last 24 hours), View all Jobs (last 24 hours)
- Backup status:** Backup Pre-Check: Passed, Last backup status: Success 8/23/2020, 5:34:45 PM
- Summary:** Recovery services vault: saivault, Backup policy: saipolicy, Oldest restore point: 8/20/2020, 3:58:03 PM (4 day(s) ago)

Restore points (6):

This list is filtered for last 30 days of restore points. To recover from restore point older than 30 days, [click here](#).

Time	Consistency	Recovery Type
8/25/2020, 1:05:47 PM	Crash Consistent	Snapshot
8/23/2020, 5:34:48 PM	Crash Consistent	Snapshot and Vault
8/22/2020, 5:34:44 PM	Crash Consistent	Snapshot and Vault
8/21/2020, 5:38:50 PM	Crash Consistent	Snapshot and Vault

Replicating the VM from west us to any location using failover.

Microsoft Azure

Search resources, services, and docs (G+)

hemasaikumar.divwela@...
DMC PRODUCTION

Home >

eastusvault | Replicated items

Recovery Services vault

Search (Ctrl+/)

Refresh + Replicate Columns Filter

Properties

Locks

Export template

Getting started

Backup

Site Recovery

Protected items

Backup items

Replicated items

Manage

Backup policies

Backup Infrastructure

Site Recovery infrastructure

Recovery Plans (Site Recovery)

Backup Reports

Monitoring

You can run your machines on managed disks after a failover or migration from on-premises to Azure. Set the option to use managed disks in Replicated item -> Settings -> Compute and Network.

Last refreshed at: 8/26/2020, 9:15:42 AM

Finished loading data from service.

Filter items...

Name	Replication Health	Status	Active location	
vm13	Healthy	0% Synchronized	Central US	...

portal.azure.com/#blade/Microsoft_Azure_RecoveryServices/ReplicationProtectedItemSettingsMenuBlade/overviewmenuitem/replicationProtectedItemId/%2...

Microsoft Azure

Search resources, services, and docs (G+)

hemasaikumar.divwela@...
DMC PRODUCTION

Home > eastusvault > vm13 >

Test failover

vm13

Failover direction

From Central US

To East US 2

Recovery Point

Choose a recovery point Latest app-consistent (1 out of 1 disks) (8/26/2020, 9:06:06 AM)

Azure virtual network * testvm1-asr

OK

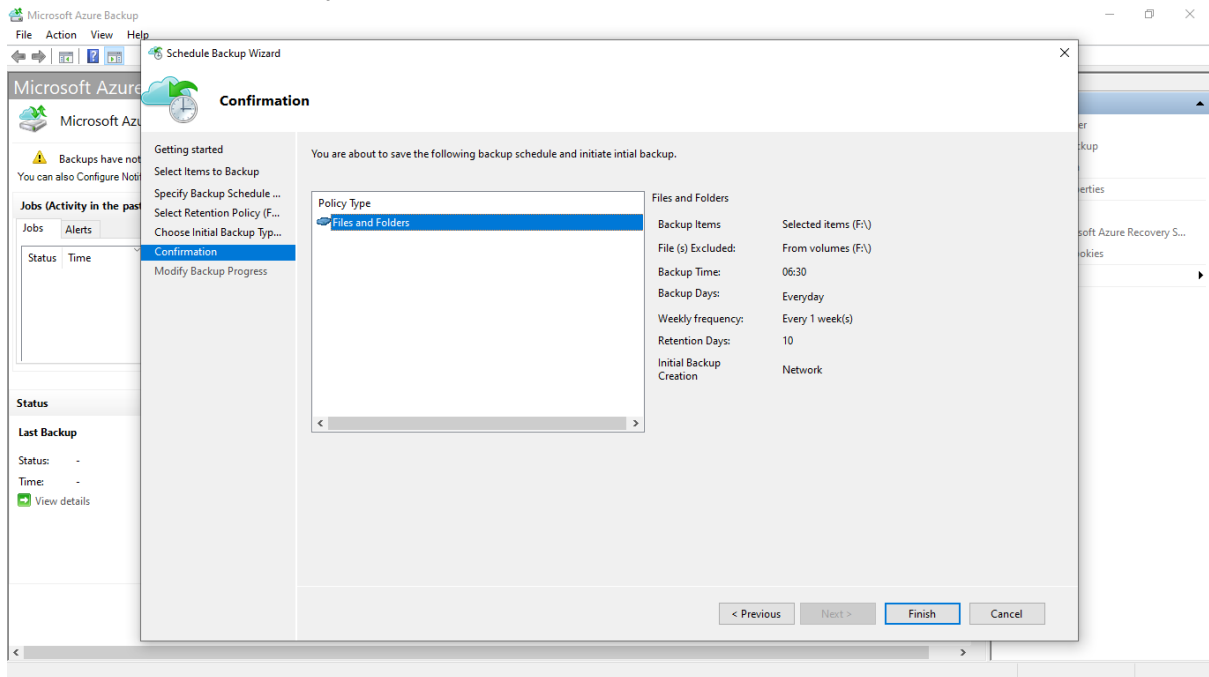
Microsoft Azure portal showing a list of Virtual machines. The page title is "Virtual machines" and the subscription is "Free Trial". The table lists 3 items selected:

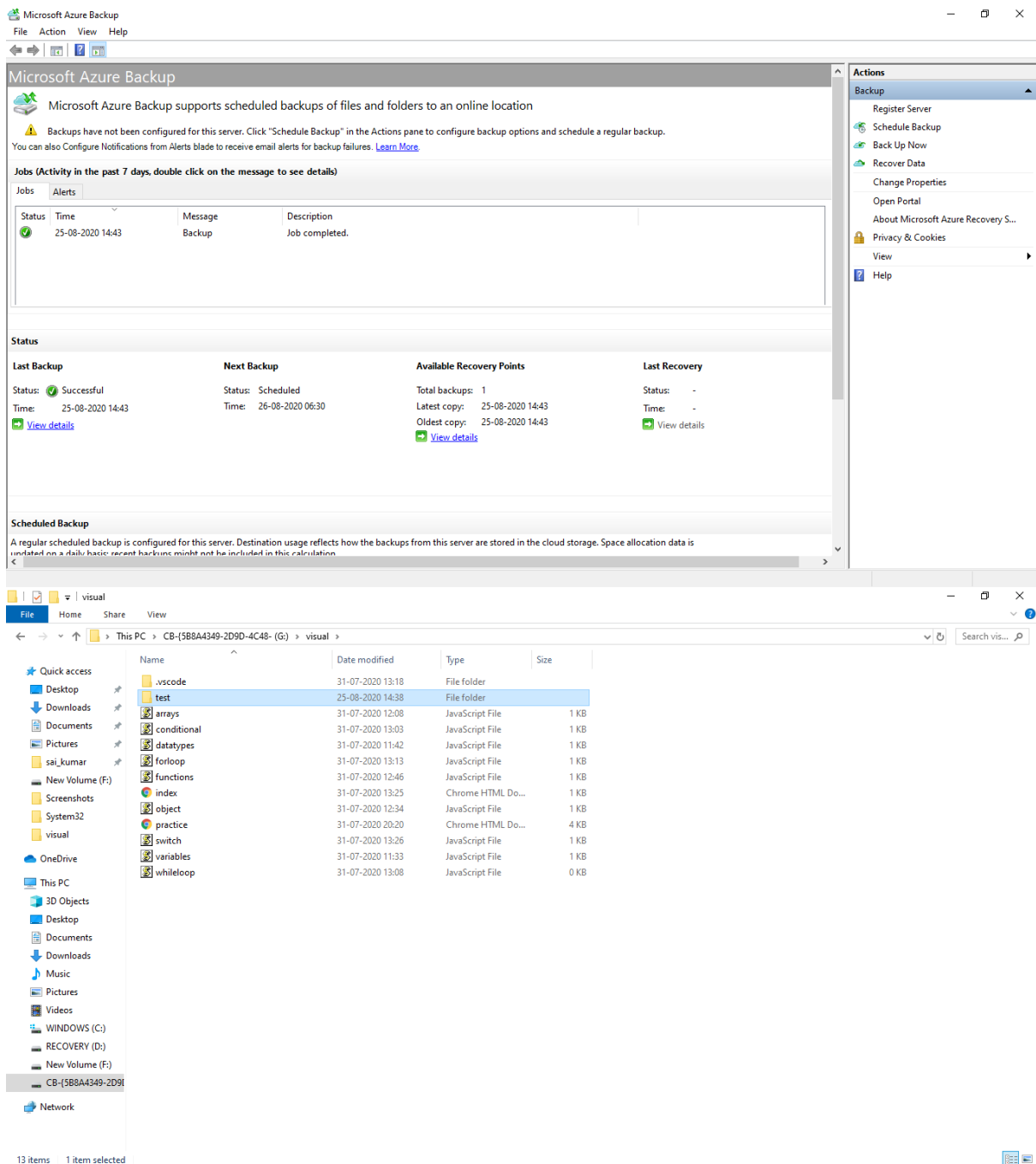
Name	Type	Status	Resource group	Location	Source	Maintenance status	Subscription
vm13	Virtual machine	Stopped (deallocated)	sai1	Central US	Marketplace	-	Free Trial
vm13-test	Virtual machine	Running	sai1-asr	East US 2	Disk	-	Free Trial
vm2	Virtual machine	Stopped (deallocated)	testnet	West US	Marketplace	-	Free Trial

Microsoft Azure portal showing the details of the virtual machine "vm13-test". The page title is "vm13-test" and the subscription is "Free Trial". The details are organized into sections:

- Overview**: Activity log, Access control (IAM), Tags, Diagnose and solve problems.
- Settings**: Networking, Connect, Disks, Size, Security, Advisor recommendations, Extensions, Continuous delivery, Availability + scaling, Configuration.
- Essentials**: Resource group (sai1-asr), Status (Running), Location (East US 2), Subscription (Free Trial), Subscription ID (03662a90-d3c6-45e5-978a-f98aff5399ef), Tags (Click here to add tags).
- Properties**: Computer name (vm13), Operating system (Windows (Windows Server 2019 Datacenter)), SKU (N/A), Publisher (N/A), VM generation (V1), Agent status (Ready), Agent version (2.7.41491.992), Host (None).
- Networking**: Public IP address (52.247.109.22), Private IP address (10.1.0.4), Virtual network/subnet (testvm1-asr/subnet1), DNS name (Configure).

Taking the on-premises backup using backup agent and excluding the test folder from any drive.





In the below image showing that test folder is excluded. so that test folder files are not restored since we are excluded in the backup.

