

Azure Quota & Usage Insights



[Azure Service Operations Management](#)



[Azure Service Delivery Management](#)



NextGen Azure Service
Operations Management



Azure Best Practice Adaptation

Azure Quota & Usage Insights - Overview

❑ Azure Quota & Usage Insights

- ✓ A Customized, Simple, Inclusive Re-Usable MS Excel Template – Enables users to Proactively review Azure Quota & Usage information for all the Subscriptions across a specific AAD Tenant
 - The Data is extracted / derived from Azure Management REST API's, which automatically loads the "Azure Quota & Usage Insights" Re-Usable MS Excel Template with Azure Quota & Usage information for Compute, Disks, Storage & Network Resources, Usage information for VMs & associated Disks, Web Server Farms & Sites and information on Idle / Orphan Resources like NIC's, Public IP's & Managed Disks
 - To get Started, One can just Download the Azure Quota & Usage Insights Re-usable MS Excel Template...
 - *Open the Template, Click 'Enable Content' for the 'Security Warning – External Data Connection have been disabled'*
 - *Click 'Yes' for the 'Security Warning – Do you want to make this file a Trusted Document'*
 - *Ensure the Privacy Levels for 'Global' & 'Current Workbook' under the 'Query Options' (Go to Data → Get Data → Query Options) are set to 'Ignore the Privacy Levels'*
 - Authorize the connection to Azure Management API's & 'Refresh All' for latest Data....
 - You need to authorize the connection to Azure Management API's, Only Once, for a specific AAD Tenant;
 - Ensure the Permissions to "Global permissions" for 'https://management.azure.com' & 'Data sources in current workbook' for https://management.azure.com/subscriptions" & "https://management.azure.com/tenants under Data Source Settings (Go to Data → Get Data → Data Source Settings) are Cleared, Save the Template and Open it again
 - Click on Data → Refresh All → Refresh All → Select Organizational Account → Sign in to 'https://management.azure.com/subscriptions' at Select level as 'https://management.azure.com/' → Connect
 - On an Information Message prompt 'There's already data in [xxxxx]xxxxx. Do you want to replace it?, Click 'Yes'
 - Ensure the Data Refresh is completed, Click on Data → Refresh All → Refresh Status or Select PivotTable (B4 / R4C2) → PivotTable Analyze → Refresh → Refresh Status
 - That's it...You Are Done....The Azure Quota & Usage Insights Report is Ready to be Consumed....
 - You can now view the Azure Quota & Usage information for Compute, Disks, Storage & Network Resources and Usage information for VMs & associated Disks, Web Server Farms & Sites
 - You can Refresh the Data as & when required to Ensure Latest Dataset
 - Click on Data → Refresh All → Refresh All ←→ Refresh Status to ensure completion of Dataset Refresh or Select PivotTable (B4 / R4C2) → PivotTable Analyze → Refresh → Refresh All ←→ Refresh Status to ensure completion of Dataset Refresh

✓ Prerequisites;

- A Customer Domain Account ID (email ID) with defined RBAC (at least a Reader Role) access to all the Subscriptions across a specific AAD Tenant
- Ensure 'Microsoft.Capacity' Resource provider is registered for all the Azure Subscriptions
- Ensure access to Microsoft Excel App or Online version

✓ Further Slides will provide Step wise, One time Setup details with Snapshots....

Azure Quota & Usage Insights Template...

AutoSave Off Azure Quota & Usage Insights-Template-v01.xlsx Search (Alt+Q) Hemachandran Natarajan

File Home Insert Draw Page Layout Formulas Data Review View Help

R1C1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Code reference - CCOInsights

8/20/2022 13:19 < Last Refresh

Note: - To Ensure Latest Dataset Refresh - Select PivotTable (B4) -> PivotTable Analyze -> Refresh -> Refresh All <-> Check Refresh Status to ensure completion

Azure Compute & Disks Quota Limit & Usage				Quota Limit	Usage	Usage %
Total Regional vCPUs	17383	2717	15.6%			
Standard EA v4 Family vCPUs	790	640	81.0%			
Premium Storage Managed Disks	1450000	556	0.0%			
Standard NVS v3 Family vCPUs	6300	384	6.1%			
Virtual Machines	750000	324	0.0%			
Standard DS v3 Family vCPUs	1850	254	13.7%			
PremiumStorageSnapshots	375000	237	0.1%			
Standard ND v2 Family vCPUs	400	200	50.0%			
Standard NC v3 Family vCPUs	720	192	26.7%			
Standard NCAS v3_T4 Family vCPUs	208	160	76.9%			
Standard SSDStorageDisks	850000	138	0.0%			
Standard Dv2 Family vCPUs	200	136	68.0%			
Standard DS v2 Family vCPUs	1100	125	11.4%			
StandardStorageSnapshots	600000	106	0.0%			
Standard PBS Family vCPUs	240	90	37.5%			
Standard ES v3 Family vCPUs	264	84	31.8%			
Standard NC Promo Family vCPUs	96	78	81.3%			
Standard DDS v4 Family vCPUs	200	64	32.0%			
Standard BS Family vCPUs	900	54	6.0%			
Gallery Image Version	60000	53	0.1%			
Standard EAS v4 Family vCPUs	150	48	32.0%			
Standard Storage Managed Disks	550000	40	0.0%			
Virtual Machine Scale Sets	27500	37	0.1%			
Standard EDS v4 Family vCPUs	200	36	18.0%			
Standard DAS v5 Family vCPUs	100	32	32.0%			
Availability Sets	30000	32	0.1%			
Gallery Image	6000	23	0.4%			
Standard Av2 Family vCPUs	200	20	10.0%			
Standard Ev3 Family vCPUs	500	20	4.0%			
Standard NV Family vCPUs	325	18	5.5%			
ZrsStorageSnapshots	375000	16	0.0%			
Standard DS v4 Family vCPUs	100	16	16.0%			
Standard NC Family vCPUs	48	12	25.0%			
Standard DAS v4 Family vCPUs	100	12	12.0%			
Standard DS Family vCPUs	100	8	8.0%			

Azure Storage Accounts Quota Limit & Usage				Quota Limit	Usage	Usage %
Storage Accounts	11250	468	4.2%			

Azure Networks Quota Limit & Usage				Quota Limit	Usage	Usage %
Network Interfaces	2162688	498	0.0%			
Network Security Groups	190000	493	0.3%			
Public IP Addresses	35000	413	1.2%			
Static Public IP Addresses	26000	240	0.9%			
Virtual Networks	38000	206	0.5%			
Public IP Addresses - Standard	23000	165	0.7%			
Network Watchers	48	48	100.0%			
Load Balancers	10000	44	0.4%			
Route Tables	3600	39	1.1%			
Standard SKU Load Balancers	7000	24	0.3%			
Private Endpoints	458752	22	0.0%			
Application Gateways	6000	8	0.1%			
Network Intent Policies	400	4	1.0%			
Application Security Groups	3000	2	0.1%			
DDoS Protection Plans	2	2	100.0%			
Private Link Services	800	1	0.1%			
Nat Gateways	1000	1	0.1%			

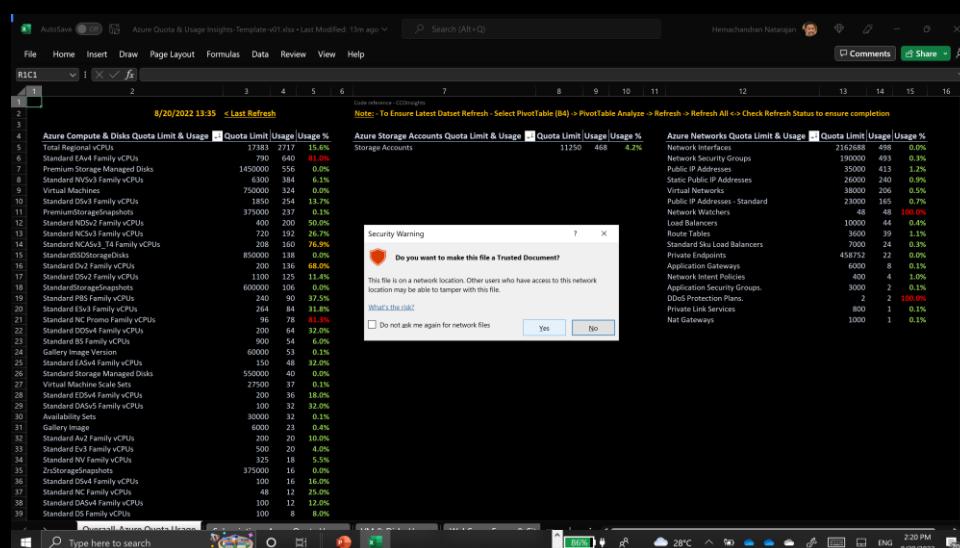
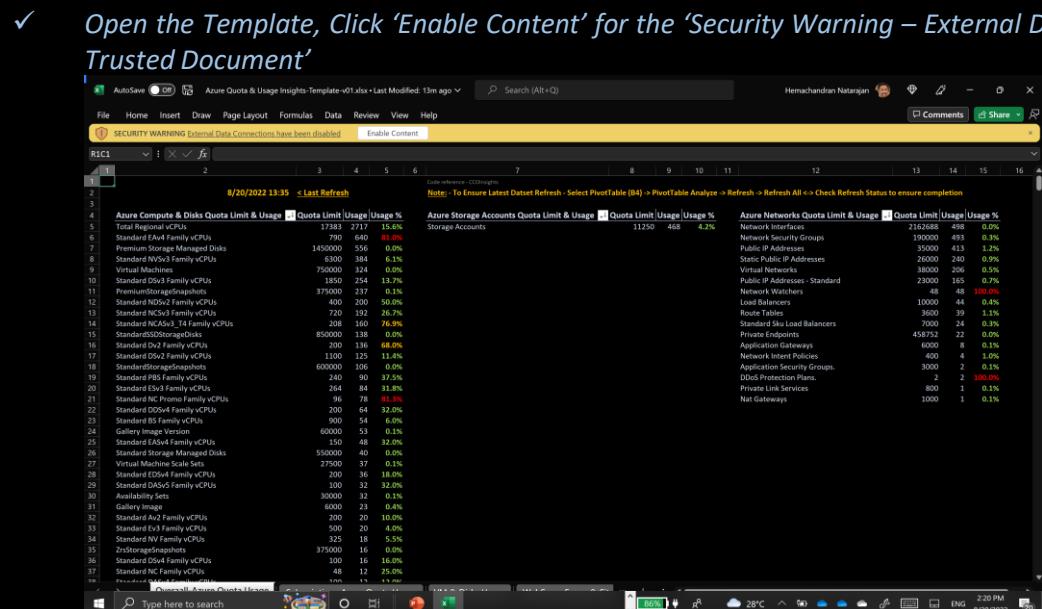
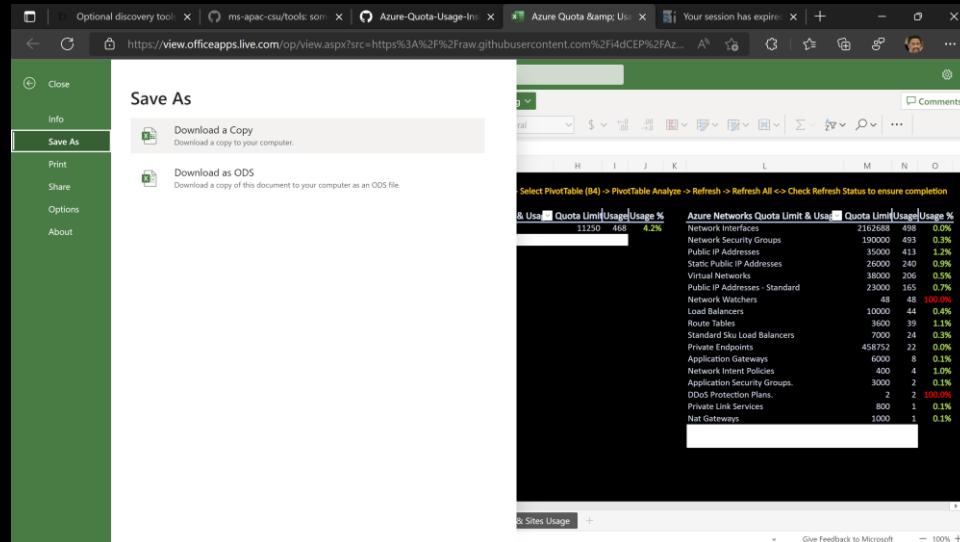
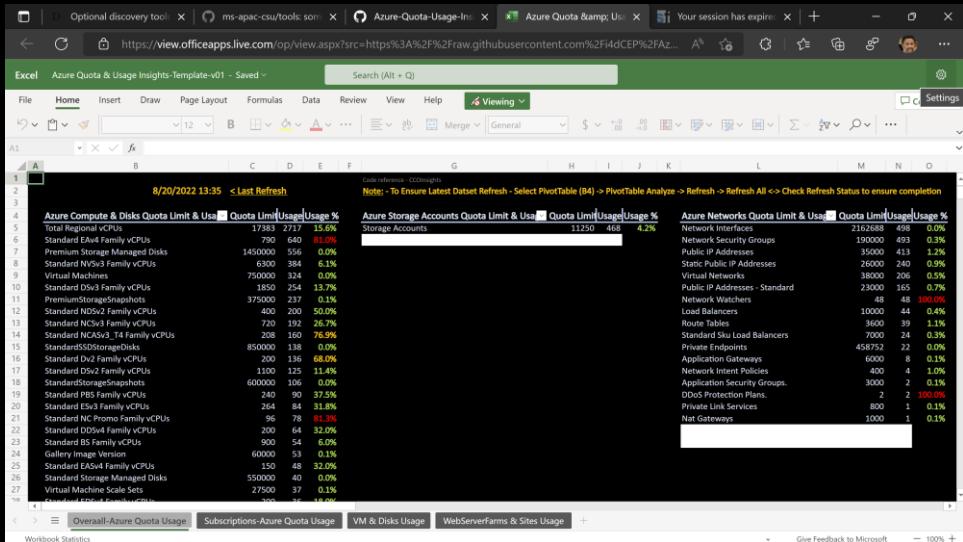
Overall-Azure Quota Usage Subscriptions-Azure Quota Usage VM & Disks Usage WebServerFarms & Site ... + : ← →

Ready Running background query ... (Click here to cancel) General Accessibility: Investigate

Azure Quota & Usage Insights – Step wise Setup....

- Download the Azure Quota & Usage Insights Re-usable MS Excel Template from the GitHub Repository....

- ✓ [Azure-Quota-Usage-Insights/Azure Quota & Usage Insights-Template-v01.xlsx at main · i4dCEP/Azure-Quota-Usage-Insights \(github.com\)](https://github.com/i4dCEP/Azure-Quota-Usage-Insights)



Azure Quota & Usage Insights – Step wise Setup....

□ Download the Azure Quota & Usage Insights Re-usable MS Excel Template....

- ✓ Ensure the Privacy Levels for 'Global' & 'Current Workbook' under the 'Query Options' (Go to Data → Get Data → Query Options) are set to 'Ignore the Privacy Levels'

The screenshot displays two identical Microsoft Excel windows side-by-side. Each window shows a complex PivotTable report titled 'Azure Compute & Disks Quota Limit & Usage' and 'Azure Storage Accounts Quota Limit & Usage'. The PivotTables are filled with various Azure service metrics like CPU usage, storage accounts, and network interfaces. In the center of each window, a 'Query Options' dialog box is open. The 'Privacy Levels' tab is selected, and the 'Ignore the Privacy Levels' radio button is checked. Other tabs in the dialog box include 'GLOBAL', 'CURRENT WORKBOOK', 'Data Load', 'Power Query Editor', 'Security', 'Privacy', and 'Diagnostics'. The overall interface is a standard Microsoft Office Excel environment.

This screenshot shows two Microsoft Excel windows with the same data as the previous one, but the 'Query Options' dialog box is more prominent. It is centered over the main content area of both windows. The 'Privacy Levels' tab is clearly visible, and the 'Ignore the Privacy Levels' option is selected. The dialog box also includes tabs for 'GLOBAL', 'CURRENT WORKBOOK', 'Data Load', 'Power Query Editor', 'Security', 'Privacy', and 'Diagnostics'. The background of the windows shows the detailed PivotTable reports from the Azure Quota & Usage Insights template.

Azure Quota & Usage Insights – Step wise Setup....

□ Authorize the connection to Azure Management API's & 'Refresh All' for Latest Data....

- ✓ You only need to authorize the connection to Azure Management API's Once for a specific AAD Tenant;

- Ensure the Permissions to "Global permissions" for 'https://management.azure.com' & 'Data sources in current workbook' for https://management.azure.com/subscriptions" & "https://management.azure.com/tenants under Data Source Settings (Go to Data → Get Data → Data Source Settings) are Cleared

Overall-Azure Quota Usage Subscriptions-Azure Quota Usage VM & Disks Usage WebServerFarms & Site

Data Source Settings

Manage settings for your data sources.

https://management.azure.com/

Overall-Azure Quota Usage Subscriptions-Azure Quota Usage VM & Disks Usage WebServerFarms & Site

Data Source Settings

Manage settings for the data sources used in queries.

https://management.azure.com/subscriptions

Overall-Azure Quota Usage Subscriptions-Azure Quota Usage VM & Disks Usage WebServerFarms & Site

Data Source Settings

Manage settings for the data sources used in queries.

https://management.azure.com/tenants

Overall-Azure Quota Usage Subscriptions-Azure Quota Usage VM & Disks Usage WebServerFarms & Site

Data Source Settings

Manage settings for the data sources used in queries.

https://management.azure.com/

Clear Permissions

Are you sure you want to clear permissions for this entry? If you clear it you will have no way of getting it back.

Delete Cancel

Azure Quota & Usage Insights – Step wise Setup....

□ Authorize the connection to Azure Management API's & 'Refresh All' for latest Data....

- ✓ You only need to authorize the connection to Azure Management API's Once for a specific AAD Tenant;

- Ensure the Permissions to "Global permissions" for 'https://management.azure.com' & 'Data sources in current workbook' for https://management.azure.com/subscriptions" & "https://management.azure.com/tenants under Data Source Settings (Go to Data → Get Data → Data Source Settings) are Cleared

The screenshot shows the 'Data source settings' dialog box in Excel. It lists various Azure resources like Storage Accounts, Disks, and VMs. A dropdown menu at the top right shows 'Global permissions' selected. Below the list, there's a note: 'You don't have any permissions saved on this computer.' At the bottom, there are 'Edit Permissions...' and 'Clear Permissions...' buttons.

The screenshot shows the 'Data source settings' dialog box in Excel. It lists the same set of Azure resources as the first screenshot. A dropdown menu at the top right shows 'Data sources in current workbook' selected. Below the list, there's a note: 'Some data sources may not be listed because of hand-authored queries.' At the bottom, there are 'Change Source...', 'Edit Permissions...', and 'Clear Permissions...' buttons.

The screenshot shows the 'Data source settings' dialog box in Excel. It lists the same set of Azure resources. A dropdown menu at the top right shows 'Data sources in current workbook' selected. A 'Clear Permissions' dialog box is open in the foreground, asking 'Are you sure you want to clear permissions for this entry? If you clear it you will have no way of getting it back.' Buttons for 'Delete' and 'Cancel' are visible. At the bottom, there are 'Change Source...', 'Edit Permissions...', and 'Clear Permissions...' buttons.

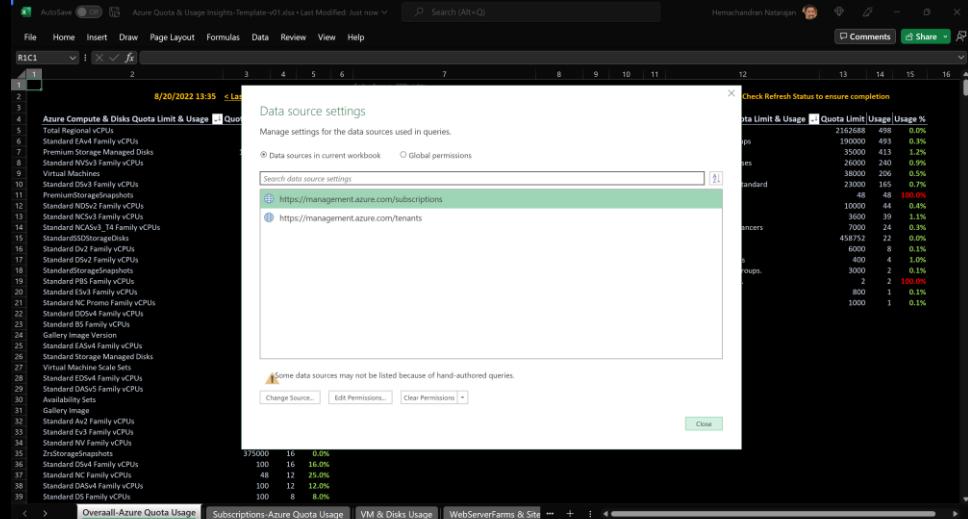
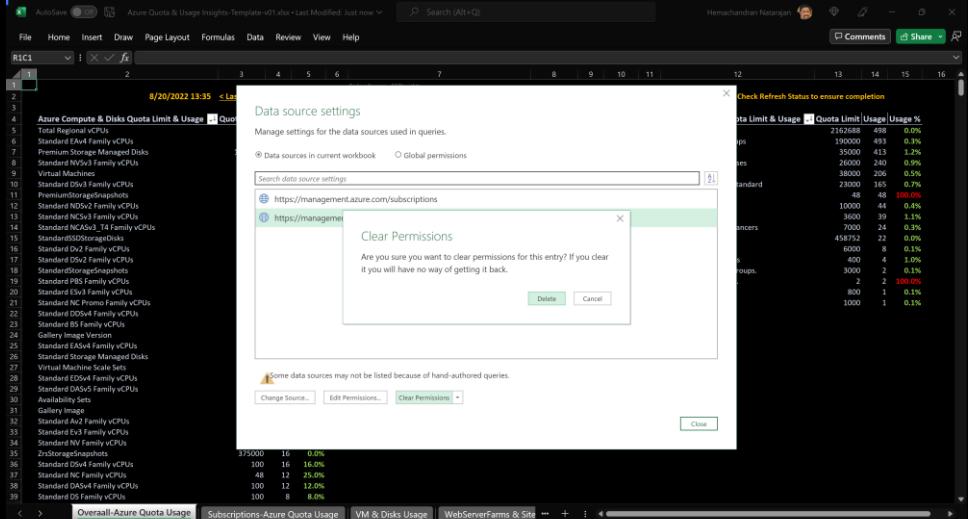
The screenshot shows the 'Data source settings' dialog box in Excel. It lists the same set of Azure resources. A dropdown menu at the top right shows 'Data sources in current workbook' selected. Below the list, there's a note: 'Some data sources may not be listed because of hand-authored queries.' At the bottom, there are 'Change Source...', 'Edit Permissions...', and 'Clear Permissions...' buttons.

Azure Quota & Usage Insights – Step wise Setup....

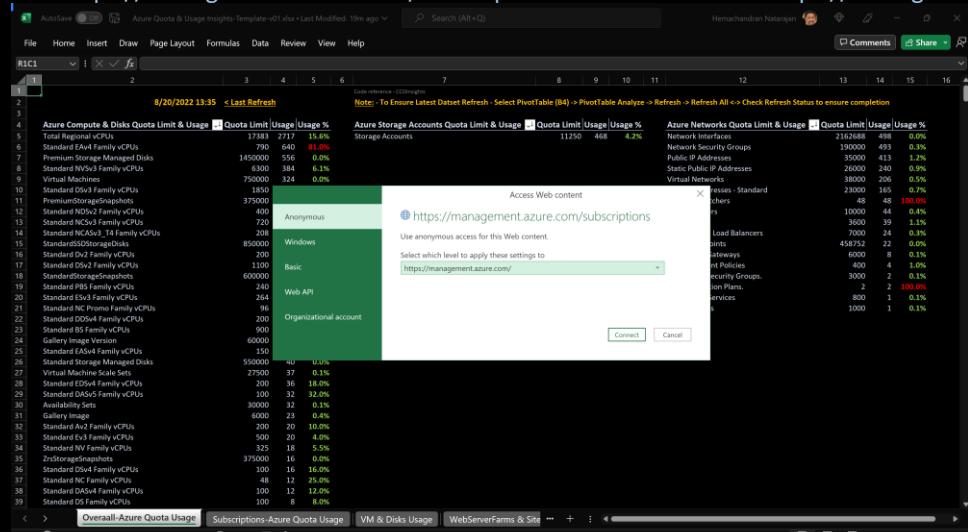
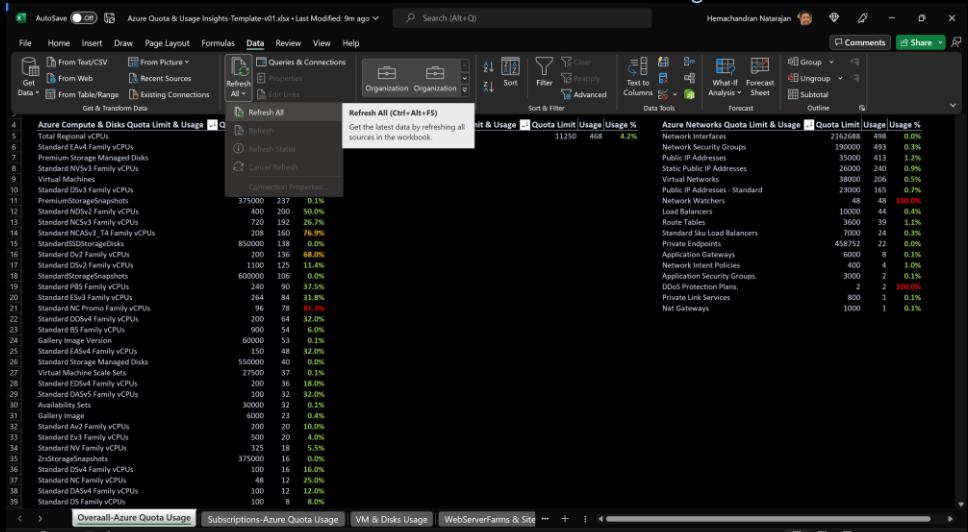
□ Authorize the connection to Azure Management API's & 'Refresh All' for latest Data....

- ✓ You only need to authorize the connection to Azure Management API's Once for a specific AAD Tenant;

- Ensure the Permissions to "Global permissions" for 'https://management.azure.com' & 'Data sources in current workbook' for https://management.azure.com/subscriptions" & "https://management.azure.com/tenants under Data Source Settings (Go to Data → Get Data → Data Source Settings) are Cleared



- Click on Data → Refresh All → Refresh All → Select Organizational Account → Sign in to 'https://management.azure.com/subscriptions' at Select level as 'https://management.azure.com/' → Connect

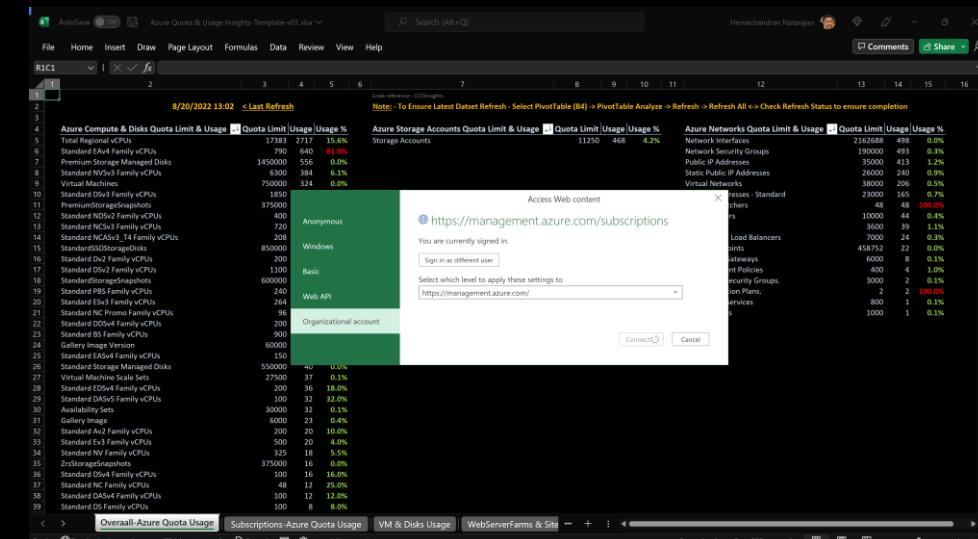
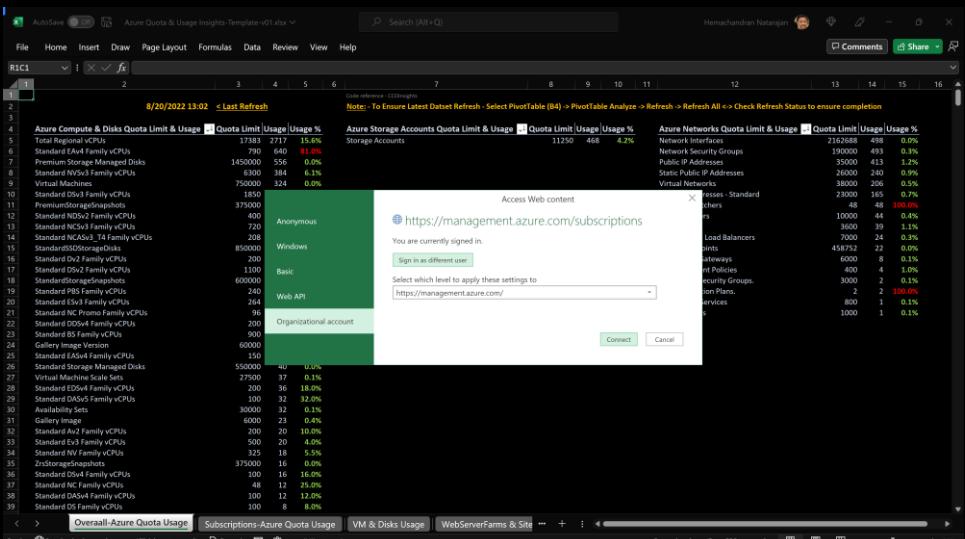
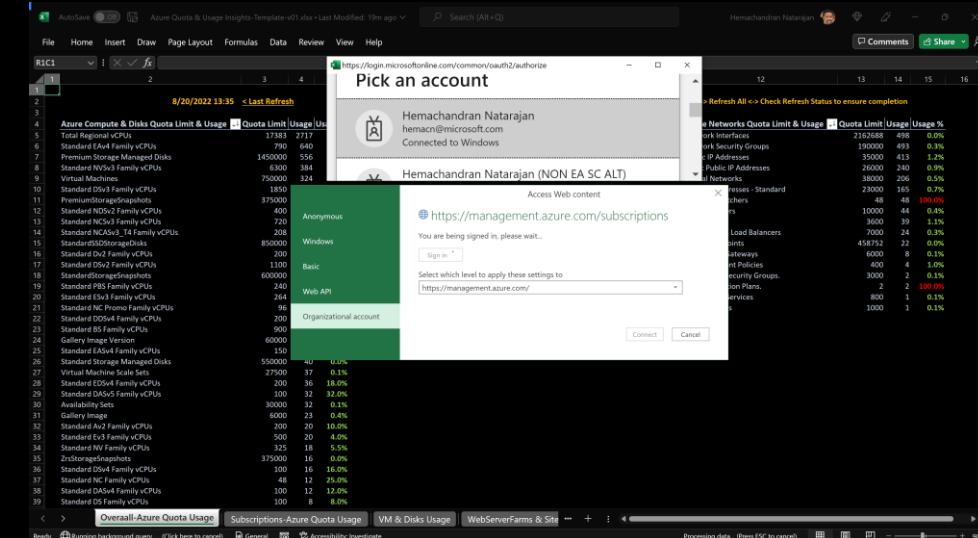
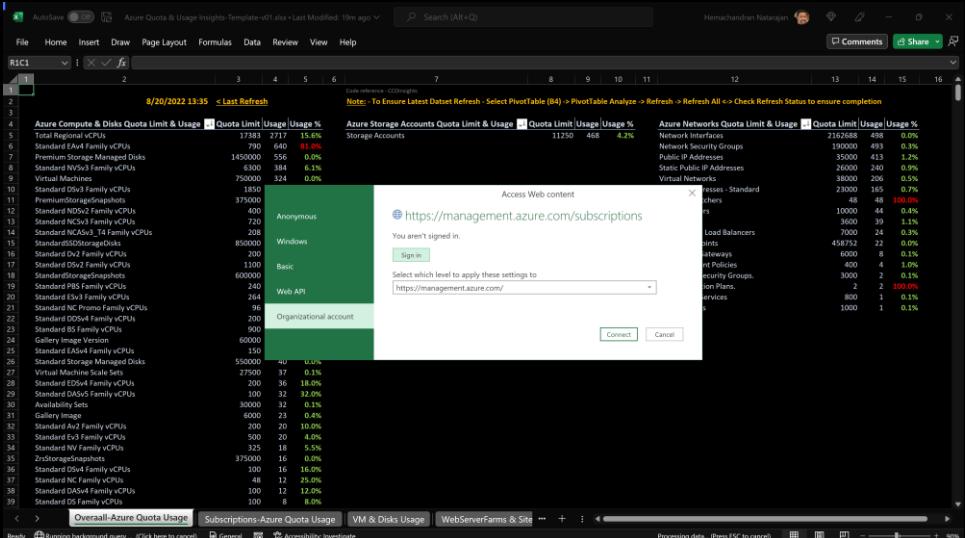


Azure Quota & Usage Insights – Step wise Setup....

□ Authorize the connection to Azure Management API's & 'Refresh All' for latest Data....

- ✓ You only need to authorize the connection to Azure Management API's Once for a specific AAD Tenant;

- Click on Data → Refresh All → Refresh All → Organizational Account → Sign in to '<https://management.azure.com/subscriptions>' at Select level as '<https://management.azure.com/>' → Connect



Azure Quota & Usage Insights – Step wise Setup....

□ Authorize the connection to Azure Management API's & 'Refresh All' for latest Data....

- ✓ You only need to authorize the connection to Azure Management API's Once for a specific AAD Tenant;

- On an Information Message prompt 'There's already data in [xxxxx]xxxxx. Do you want to replace it?, Click 'Yes' & Ensure the Data Refresh is completed, Click on Data → Refresh All → Refresh Status or Select PivotTable (B4 / R4C2) → PivotTable Analyze → Refresh → Refresh Status

Overall-Azure Quota Usage

Category	Quota Limit	Usage %
Total Regional vCPUs	61824	18939 30.1%
Premium Storage Managed Disks	450000	4563 1.0%
Standard D5v3 Family vCPUs	3000	960 0.3%
Virtual Machines	250000	2048 0.8%
Standard D3v3 Family vCPUs	240	1974 8.2%
Standard M5 Family vCPUs	210	1818 8.5%
Standard D4v3 Family vCPUs	6895	1238 18.5%
Standard D5v3 Family vCPUs	11500	1932 17.3%
Standard D6v3 Family vCPUs	1172	1122 9.5%
Standard D7v3 Family vCPUs	1081	1081 9.5%
Standard D4v4 Family vCPUs	1000	364 38.4%
Standard D4v4 Family vCPUs	700	248 35.4%
Standard D4v4 Family vCPUs	250000	2232 2.2%
Gallery Image Version	100000	223 3.2%
Standard F Family vCPUs	650	211 13.3%
Standard D5v4 Family vCPUs	1500	200 13.3%
ZrStorageSnapshots	375000	180 0.5%
Standard E Family vCPUs	1160	932 8.0%
Standard NC5v3 Family vCPUs	300	120 40.0%
Standard D3v3 Family vCPUs	1538	104 6.8%
Standard D2v3 Family vCPUs	725	91 12.0%
Standard D4v3 Family vCPUs	64	64 0.0%
Standard D6v3 Family vCPUs	810	60 7.4%
Standard ES4v3 Family vCPUs	1310	60 4.6%
Standard H Family vCPUs	6532	56 0.9%
Standard D4v4 Family vCPUs	11500	51 0.4%
Standard NS4v3 Family vCPUs	724	48 6.6%

Overall-Azure Quota Usage

Note: To Ensure Latest Dataset Refresh - Select PivotTable (B4) > PivotTable Analyze > Refresh > Refresh All <> Check Refresh Status to ensure completion

Category	Quota Limit	Usage %
Total Regional vCPUs	2162688	498 0.0%
Premium Storage Managed Disks	350000	493 100.0%
Standard D5v3 Family vCPUs	35000	413 1.2%
Virtual Networks	26000	2000 0.5%
Public IP Addresses	30000	206 0.5%
Network Watchers	28000	165 0.7%
Load Balancers	48	48 2.2%
Route Tables	10000	39 0.3%
Standard SKU Load Balancers	7000	24 0.0%
Private Endpoints	458752	22 3.8%
Network Interfaces	6000	8 0.8%
Network Interface Policies	400	4 1.0%
Application Security Groups	3000	2 0.0%
Virtual Machine Scale Sets	2	2 0.1%
Load Balancer Policies	800	1 0.0%
DDoS Protection Plans	1000	1 0.0%
Private Link Services	3400	39 0.1%
Nat Gateways	7000	24 0.3%
External Data Refresh Status	850000	138 0.0%
Application Gateway	6000	8 0.1%
Network Interface Policies	400	4 0.0%
Application Security Groups	3000	2 0.1%
DDoS Protection Plans	2	2 100.0%
Private Link Services	800	1 0.1%
Nat Gateways	1000	1 0.3%

Overall-Azure Quota Usage

Category	Quota Limit	Usage %
Total Regional vCPUs	1738	2717 15.6%
Premium Storage Managed Disks	1450000	556 0.0%
Standard D5v3 Family vCPUs	6300	384 6.1%
Virtual Machines	750000	324 0.0%
Standard D3v3 Family vCPUs	1850	1300 7.0%
ZrStorageSnapshots	350000	237 0.1%
Standard D6v3 Family vCPUs	400	200 50.0%
Standard NC5v3 Family vCPUs	720	192 26.7%
Standard D4v4 Family vCPUs	200	160 7.6%
Standard D4v4 Family vCPUs	900000	133 0.0%
Standard D6v4 Family vCPUs	200	136 6.8%
Standard D5v4 Family vCPUs	1100	125 11.4%
Standard D4v4 Family vCPUs	600000	106 0.0%
Standard D5v4 Family vCPUs	200	96 48.0%
Standard D6v4 Family vCPUs	284	74 31.8%
Standard NC6v3 Family vCPUs	96	78 81.3%
Standard D4v4 Family vCPUs	200	64 32.0%
Standard D5v4 Family vCPUs	500000	53 0.1%
Standard D6v4 Family vCPUs	150	44 32.0%
Standard Storage Managed Disks	550000	40 0.0%
Virtual Machine Scale Sets	275000	37 0.1%
Standard D6v4 Family vCPUs	100	32 32.0%
Standard D5v4 Family vCPUs	30000	32 0.1%
Availability Sets	60000	23 0.4%
Gallery Image	300	200 6.7%
Standard D6v4 Family vCPUs	500	20 4.0%
Standard D5v4 Family vCPUs	325	18 5.5%
ZrStorageSnapshots	375000	16 0.0%
Standard D6v4 Family vCPUs	100	12 25.0%
Standard D5v4 Family vCPUs	100	12 12.0%
Standard D5v4 Family vCPUs	100	8 8.0%

Overall-Azure Quota Usage

Note: To Ensure Latest Dataset Refresh - Select PivotTable (B4) > PivotTable Analyze > Refresh > Refresh All <> Check Refresh Status to ensure completion

R4C2

Category	Quota Limit	Usage %
Total Regional vCPUs	1738	2717 15.6%
Premium Storage Managed Disks	1450000	556 0.0%
Standard D5v3 Family vCPUs	6300	384 6.1%
Virtual Machines	750000	324 0.0%
Standard D3v3 Family vCPUs	1850	1300 7.0%
ZrStorageSnapshots	350000	237 0.1%
Standard D6v3 Family vCPUs	400	200 50.0%
Standard NC5v3 Family vCPUs	720	192 26.7%
Standard D4v4 Family vCPUs	200	160 7.6%
Standard D4v4 Family vCPUs	900000	133 0.0%
Standard D6v4 Family vCPUs	200	136 6.8%
Standard D5v4 Family vCPUs	1100	125 11.4%
Standard D4v4 Family vCPUs	600000	106 0.0%
Standard D5v4 Family vCPUs	200	96 48.0%
Standard D6v4 Family vCPUs	284	74 31.8%
Standard NC6v3 Family vCPUs	96	78 81.3%
Standard D4v4 Family vCPUs	200	64 32.0%
Standard D5v4 Family vCPUs	500000	53 0.1%
Standard D6v4 Family vCPUs	150	44 32.0%
Standard Storage Managed Disks	550000	40 0.0%
Virtual Machine Scale Sets	275000	37 0.1%
Standard D6v4 Family vCPUs	100	32 32.0%
Standard D5v4 Family vCPUs	30000	32 0.1%
Availability Sets	60000	23 0.4%
Gallery Image	300	200 6.7%
Standard D6v4 Family vCPUs	500	20 4.0%
Standard D5v4 Family vCPUs	325	18 5.5%
ZrStorageSnapshots	375000	16 0.0%
Standard D6v4 Family vCPUs	100	12 25.0%
Standard D5v4 Family vCPUs	100	12 12.0%
Standard D5v4 Family vCPUs	100	8 8.0%

PivotTable Analyze

Refresh Status

Stop Refresh Close

Azure Quota & Usage Insights – Step wise Setup....

❑ That's it...You Are Done.....The Azure Quota & Usage Insights Report is Ready to be Consumed....

- ✓ You can now view the Azure Quota & Usage information for Compute, Disks, Storage & Network Resources and Usage information for VMs & associated Disks, Web Server Farms & Sites
 - You will see 4 Reports – 1) Overall Azure Quota & Usage information across all Subscriptions 2) Subscription wise Azure Quota & Usage information 3) VMs & associated Disks Usage information 4) Web Server Farms & Sites Usage information 5) Azure Idle / Orphan Resources information

Azure Quota & Usage Insights – Step wise Setup....

- That's it...You Are Done.....The Azure Quota & Usage Insights Report is Ready to be Consumed....

- ✓ You can Refresh the Data as & when required to Ensure Latest Dataset

- Click on Data → Refresh All → Refresh All ↔ Refresh Status to ensure completion of Dataset Refresh or Select PivotTable (B4 / R4C2) → PivotTable Analyze → Refresh → Refresh All ↔ Refresh Status to ensure completion of Dataset Refresh

Overall-Azure Quota Usage		Subscriptions-Azure Quota Usage		VM & Disks Usage		WebServerFarms & Site	
File	Home	Insert	Draw	Page Layout	Formulas	Data	Review
PivotTable	Name: Active Field	↓	Expand Field	→ Group Selection	View	Help	PivotTable Analyze Design
PivotTable2	localValue	Down	Up	Collaps Field			
Options	Field Settings	Group	Group Field				
PivotTable	Active Field						
4	Azure Compute & Disk Quota Limit & Usage	Quota Limit	Usage %	Azure Storage Accounts Quota Limit & Usage	Quota Limit	Usage %	Azure Storage Accounts Quota Limit & Usage
5	Total Regional CPUs	37383	2717	Storage Accounts	15262688	498	0.0%
6	Standard EAV Family vCPUs	790	640	Refresh All	1900000	493	0.3%
7	Premier Storage Managed Disks	1450000	556	Get the latest data by refreshing all sources in the workspace	55000	413	3.2%
8	Standard EDV Family vCPUs	6300	584	Static Public IP Addresses	30000	165	0.5%
9	Virtual Machines	750000	324	Virtual Networks	38000	205	0.5%
10	Standard DSv3 Family vCPUs	1850	254	Public IP Addresses	23000	165	0.7%
11	Premier Storage Managed Disks	375000	231	Standard Network Watchers	7	4	100.0%
12	Standard NCv3 Family vCPUs	400	36	Local Log Analytics	10000	34	0.4%
13	Standard NCv3 Family vCPUs	720	192	Route Tables	3600	39	3.1%
14	Standard NCv3 Family T4 Family vCPUs	208	160	Standard SKU Load Balancers	7000	24	0.3%
15	Standard DSv3 Storage Disks	850000	138	Private Endpoints	458742	22	0.0%
16	Standard DSv3 Storage vCPUs	700	50	Application Gateways	6000	1	0.0%
17	Standard DSv2 Family vCPUs	1100	125	Network Intent Policies	400	4	100.0%
18	StandardStorageSnapshots	600000	106	Application Security Groups	3000	2	0.1%
19	Standard PBS Family vCPUs	240	90	DDoS Protection Plans	2	2	100.0%
20	Standard EAV Family vCPUs	264	84	Private Link Services	800	1	0.1%
21	Standard NCv3 Family vCPUs	96	58	Nat Gateways	1000	1	0.1%
22	Standard DSv5 Family vCPUs	200	64				
23	Standard B5 Family vCPUs	900	54				
24	Gallery Image Version	600000	51				
25	Standard EAV Family vCPUs	140	48				
26	Standard Storage Managed Disks	550000	40				
27	Virtual Machine Scale Sets	27500	37				
28	Standard EDv6 Family vCPUs	200	36				
29	Standard DSv5 Family vCPUs	100	31				
30	Availability Zones	30000	32				
31	Gallery Image	6000	23				
32	Standard Av1 Family vCPUs	200	20				
33	Standard Eav Family vCPUs	500	20				
34	Standard Eav Family vCPUs	135	18				
35	2xStorageSnapshots	375000	16				
36	Standard DSv4 Family vCPUs	100	16				
37	Standard NC Family vCPUs	4	13				
38	Standard DSv5 Family vCPUs	100	12				
39	Standard DSv5 Family vCPUs	100	8				

AutoSave Azure Quota & Usage Insights-Template-v01.xlsx ▾

File Home Insert Draw Page Layout Formulas Data Review View Help

Queries & Connections Refresh All Refresh Edit Lines Refresh All Refresh Status Cancel Refresh Connection Properties

Data Types Sort & Filter Advanced Text to Columns Data Tools Forecast Outline

Azure Compute & Disk Quota Limit & Usage ▾

5 Total Regional vCPUs
6 Standard E4 Family vCPUs
7 Standard Storage Managed Disks
8 Standard D4 Family vCPUs
9 Virtual Machines
10 Standard Dv4 Family vCPUs
11 PremiumStorageSnapshots
12 Standard E5 Family vCPUs
13 Standard NCv3 Family vCPUs
14 Standard NCv4 Family vCPUs
15 Standard T4 Family vCPUs
16 Standard SDSStorageDisks
17 Standard Dv2 Family CPUs
18 Standard F4 Family vCPUs
19 Standard Dv3 Family vCPUs
20 Standard PBS Family CPUs
21 Standard E3v2 Family vCPUs
22 Standard NC Prime Family vCPUs
23 Standard E5 Family vCPUs
24 Standard E5-2 Family vCPUs
25 Standard B4 Family vCPUs
26 Image Library Version:
27 Standard E4 Family vCPUs
28 Standard Storage Managed Disks
29 Standard D4 Family vCPUs
30 Standard E5 Family vCPUs
31 Availability Sets
32 Standard A2 Family CPUs
33 Standard A2 Family vCPUs
34 Standard E3 Family vCPUs
35 Standard NV Family vCPUs
36 PremiumStorageSnapshots
37 Standard D4 Family vCPUs
38 Standard NC Family vCPUs
39 Standard DASv4 Family vCPUs
40 Standard DS Family vCPUs

Get Data From Text/CSV From Web Recent Sources Existing Connections Refresh All Refresh Edit Lines Refresh All Refresh Status Cancel Refresh Connection Properties

Azure Storage Accounts Quota Limit & Usage ▾

Storage Accounts 11250 468 4.2%

Azure Networks Quota Limit & Usage ▾

Network Interfaces 2152688 498 0.0%
Network Security Groups 190000 493 0.3%
Public IP Addresses 35000 412 1.2%
Static IP Addresses 10000 340 0.3%
Virtual Networks 38000 206 0.5%
Public IP Addresses - Standard 23000 165 0.7%
Network Watchers 48 48 100.0%
Load Balancers 11000 1000 9.0%
Route Tables 3600 39 1.1%
Standard Site Load Balancers 7000 24 0.3%
Private Endpoints 458752 22 0.0%
Application Gateways 6000 6 0.1%
Network Security Groups 400 0 0.0%
Application Security Groups 3000 2 0.1%
DDoS Protection Plans, 2 2 100.0%
Private Link Services 800 1 0.1%
Nat Gateways 1000 1 0.1%

Overall-Azure Quota Usage Subscriptions-Azure Quota Usage VM & Disks Usage WebServerFarms & Site

Overall-Azure Quota Usage

	Azure Compute & Disk Quota Limit & Usage	Quota Limit	Usage %	Azure Storage Accounts Quota Limit & Usage	Quota Limit	Usage %		
5	Total Regional vCPUs	37383	2717	15.6%	Storage Accounts	2162688	498	0.0%
6	Standard E4v Family vCPUs	790	640	81.0%	Network Interfaces	190000	493	0.3%
7	Premier Storage Managed Disks	1450000	550	0.0%	Network Security Groups	350000	411	1.2%
8	Standard Dv3 Family vCPUs	4300	384	9.1%	Public IP Addresses	10000	100	1.0%
9	Virtual Machines	750000	324	0.0%	Virtual Networks	38000	206	0.5%
10	Standard DSV3 Family vCPUs	1850	254	13.7%	Network Watchers - Standard	23000	165	0.7%
11	PremierStorageSnapshots	375000	237	0.1%	Local Network Gateways	74	48	100.0%
12	Standard E5 Family vCPUs	400	36	9.0%	Route Tables	1520	10	0.0%
13	Standard NCv3 Family vCPUs	720	192	26.7%	Standard SKU Load Balancers	7000	24	0.3%
14	Standard NCv5 Family vCPUs	200	160	76.9%	Private Endpoints	458752	22	0.0%
15	StandardSSDStorageDisks	850000	138	0.0%	Application Gateways	6000	8	0.1%
16	Standard Dv4 Family vCPUs	200	136	68.0%	Network Policies	400	20	0.5%
17	Standard Dsv4 Family vCPUs	150	100	66.7%	Application Security Groups	3000	2	0.1%
18	StandardStorageSnapshots	600000	106	0.0%	DDoS Protection Plans	2	2	100.0%
19	Standard PBE Family vCPUs	240	90	37.5%	Private Link Services	800	1	0.1%
20	Standard ESv3 Family vCPUs	264	84	31.8%	Net Gateways	1000	1	0.1%
21	Standard NC Premium Family vCPUs	96	78	81.3%				
22	Standard Dv2 Family vCPUs	200	64	32.0%				
23	Standard B5 Family vCPUs	900	54	6.0%				
24	Gallery Image Version	60000	53	0.1%				
25	Standard E4v Family vCPUs	150	48	32.0%				
26	Standard Storage Managed Disks	550000	40	0.0%				
27	Virtual Machine Scale Sets	27500	17	61.1%				
28	Standard DSV4 Family vCPUs	200	36	18.0%				
29	Standard DSV5 Family vCPUs	100	32	32.0%				
30	Availability Sets	30000	32	0.1%				
31	Gallery Image	6000	2	0.0%				
32	Standard A2 Family vCPUs	200	20	10.0%				
33	Standard E4v Family vCPUs	500	20	4.0%				
34	Standard NV Family vCPUs	325	18	5.5%				
35	StorageSnapshots	375000	16	0.0%				
36	Standard DSV4 Family vCPUs	500	16	3.2%				
37	Standard NC Family vCPUs	48	12	25.0%				
38	Standard DSV4 Family vCPUs	100	12	12.0%				
39	Standard D5 Family vCPUs	100	8	8.0%				

Azure Quota & Usage Insights – Step wise Setup....

□ That's it...You Are Done.....The Azure Quota & Usage Insights Report is Ready to be Consumed....

✓ You can Refresh the Data as & when required to Ensure Latest Dataset

- Click on Data → Refresh All → Refresh All ↔ Refresh Status to ensure completion of Dataset Refresh or Select PivotTable (B4 / R4C2) → PivotTable Analyze → Refresh → Refresh All ↔ Refresh Status to ensure completion of Dataset Refresh. Now the Latest Dataset as on n-1 Day will be loaded, Cell 'B2 / R2C2' will reflect the Last Refresh Date & Time

The screenshot shows the Microsoft Excel interface with the 'Azure Quota & Usage Insights-Template-v01.xlsx' file open. The main content area contains three PivotTables:

- Azure Compute & Disks Quota Limit & Usage:** Shows usage details for various Azure compute and disk resources.
- Azure Storage Accounts Quota Limit & Usage:** Shows usage details for Azure storage accounts.
- Azure Networks Quota Limit & Usage:** Shows usage details for Azure network components.

At the bottom of the screen, the status bar displays "Overall-Azure Quota Usage". A context menu is open over the first PivotTable, specifically over cell B4, with options including "Refresh", "Refresh All", "Refresh Status", and "Cancel Refresh".

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Azure Service Operations Management



Azure Service Delivery Management



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