This guide will walk through the steps to create your virtual machine (VM) with Tom Sawyer Graph Database Browser on Azure Marketplace. You will launch the web application, connect to your Azure Cosmos DB database, and start visualizing your data.

Launch the Web Application

1. Sign in to the Azure portal and go to the Graph Database Browser product page:
   
   https://portal.azure.com/#create/tomsawyersoftwarecorp1613579206342.tom_sawyer_software_graph_database_browsertss-gdbb

2. Click Create to start the wizard. The first step is to set up the virtual machine.
3. Complete the project details as follows:

   — Subscription: Use the default **Pay-As-You-Go**
   
   — Resource group: Select from your existing list or create a new one. A resource group is a logical container for deploying and managing Azure resources like web apps, databases, and storage accounts.
   
   — Virtual machine name: Enter a meaningful name for this VM.
   
   — Region: Select your preferred region.
   
   — Availability options: Use the default **No infrastructure redundancy required**.
   
   — Image: Use the default **Tom Sawyer Graph Database Browser - Gen1**
   
   — Azure Spot instance: Optional; Azure Spot offers unused Azure capacity at a discounted rate versus Pay-As-You-Go prices
— Size: Select a VM size. We recommend **D2s_v3** (2vcpus, 8 GiB memory) to begin with.

— Administrator account: Select whether the administrator account will use SSH keys or a username/password for authentication.

4. Click **Next : Disks >** to set up disk options.

![Microsoft Azure Create a virtual machine](image)

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— OS disk type: Use the default **Premium SSD** or select another option.

— Encryption type: Use **(Default) Encryption at-rest with a platform-managed key** or select another option.

— Enable Ultra Disk compatibility: Not required.

5. Click **Next : Networking >** to set up networking.
Your account administrator may already have networking set up for you.

— Virtual network: Virtual networks are logically isolated from each other in Azure. You can configure their IP address ranges, subnets, route tables, gateways, and security settings.

— Subnet: A subnet is a range of IP addresses in your virtual network, which can be used to isolate virtual machines from each other or from the Internet.

— Public IP: Use a public IP address if you want to communicate with the virtual machine from outside the virtual network.

— NIC network security group: Use the default Advanced. A network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from, the virtual machine.

— Configure network security group: The security group should allow traffic inbound on ports 22, 80, and 443. If restricting outbound, make sure the ports are open for Azure Cosmos DB or other graph database communication.

— Accelerated networking: Not available.

— Load balancing: Optional, configure it if you want to place your VM behind a load balancer.
6. Click **Next : Management >** to configure management options for the VM. None of the settings on this page are required for Graph Database Browser. They are all optional.
7. Click **Next : Advanced >** to set up add additional configuration, agents, scripts, or applications via virtual machine extensions or cloud-init. None of the settings on this page are required for Graph Database Browser. They are all optional.

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8. Click **Next : Tags >** to configure your tags for the VM.
9. Click **Next : Review + create** to review the summary, including the cost of your configuration.

10. If you are satisfied with the configuration, click **Create** to launch the virtual machine.

Once you see the message **Your deployment is complete**, your VM with Graph Database Browser is successfully launched and running.

11. Click **Go to resource** to construct the URL. Under the Networking section, find the Public IP address or Private IP address if you didn’t set up public.

Your URL for Graph Database Browser access is **http://<your_ip_address>/databasebrowser**.
Connect to Your Azure Cosmos DB Database

1. In a web browser, go to the URL you constructed above to access the Graph Database Browser sign in page.

2. To sign in for the first time, use the default username admin and enter your Azure subscription ID for the password.

3. Set up a permanent administrator account with your e-mail address and a new password.

4. If you don’t need to make changes to the account information, click Close to access the Databases page. Before you can view the data in your graph database, you need to add it to Graph Database Browser and specify the connection details.
5. Click **Add Database**.

6. For an Azure Cosmos DB database, select **Microsoft** from the Vendor menu. **Azure Cosmos DB** automatically populates in the Database field. Enter a meaningful name for this connection and click **Save**.

7. On the Databases page, for the newly added database, select **Actions > Connections**.
8. On the Cosmos Connections page, click **Add Connection**. If you have an invitation code from the Azure Cosmos team, click the corresponding link and enter it before you add the connection.

![Cosmos Connections](image1)

9. On the **New Connection** page, enter the connection details for your database and click **Save**.

![New Connection](image2)

10. For the newly added connection, select **Actions > Connect** to establish the connection.

    After a few seconds, your database is loaded in Graph Database Browser. If you aren’t successful making a connection the first time, and the application times out, please try again.

    The results of the default initial query `g.V().limit(25).bothE()` display in the graph view.
**Start Visualizing Your Data**

Now you are ready to explore all that Graph Database Browser has to offer. To start, you can replace the default initial query with something specific to your data, or add data-driven node and edge appearance rules for the graph elements. Begin your exploration by right-clicking on a node.

For more information, you can access the product documentation by clicking the help icon in the upper right corner. If you have any problems, contact us at tomsawyer.com/support. You will need to create a free account to submit a support request.