

Cookbook to set up a Teradata Virtual Machine in Azure

1. Introduction

In October 2018 Teradata announced a major transformation and reorganization of the company. As part of these changes, they announced [Teradata Vantage](#) as their Data Warehouse solution for the cloud. This new product replaces the Teradata Database on Azure.

This post is a Quick Start Guide to set up a Teradata Virtual Machine in Azure and to connect to it. Some of the steps shown in this document can be used to setup a VMWare virtual machine too or connect to a physical system.

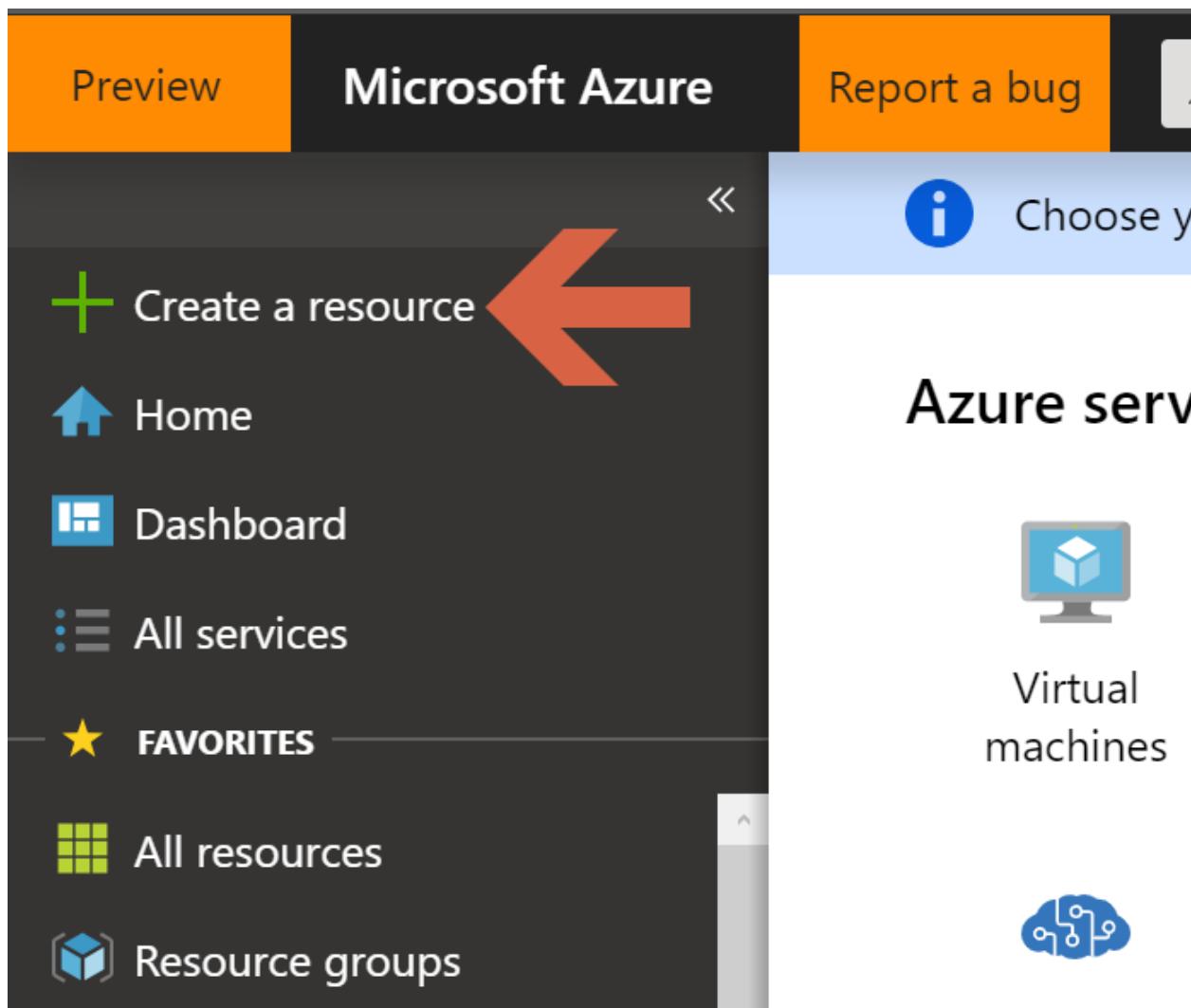
Detailed documentation can be found [here](#). The [Teradata Database on Azure Getting Started Guide](#), the [Teradata® Software for Azure Installation and Administration Guide](#) and [Teradata® Viewpoint Installation, Configuration, and Upgrade Guide for Customers](#) are particularly useful resources.

Arsen Vladimirsiky posted an [useful video](#) which shows some of the processes described in this document. It was recorded prior to Teradata Vantage, when you had Teradata Database available on the Azure Marketplace. However, many of the steps shown in this video are still valid.

2. Launch a Teradata Virtual Machine (+ Viewpoint)

Logon in [Azure portal](#), and click on “Create a resource”.





Search for “Teradata” and click on “Teradata Vantage”.



Everything

✖️ □ >

Results			
NAME	PUBLISHER	CATEGORY	
 Teradata Vantage	Teradata	Compute	
 Teradata Viewpoint (BYOL)	Teradata	Compute	
 Teradata Data Stream Controller	Teradata	Compute	
 Teradata Viewpoint (IntelliSphere)	Teradata	Compute	
 Teradata Server Management	Teradata	Compute	
 Teradata Vantage with IntelliSphere	Teradata	Compute	
 Teradata Data Mover	Teradata	Compute	
 Teradata Viewpoint (Multiple Systems)	Teradata	Compute	
 Teradata Ecosystem Manager (BYOL)	Teradata	Compute	
 Teradata Viewpoint with Data Lab (BYOL)	Teradata	Compute	
 Teradata Vantage (BYOL)	Teradata	Compute	

Click “Create”.



Teradata Vantage

Teradata



Teradata Vantage is our flagship analytics platform software providing the fastest path to secure, scalable, high-performance analytics to tackle your most complex business challenges.

Teradata Vantage combines commercial and open-source analytic technologies to operationalize insights and enable descriptive, diagnostic, predictive, and prescription analytics by delivering the best analytic functions, preferred tools and languages, and support for multiple data types.

The SQL Engine includes embedded analytic functions including 4D analytics (Time Series, Geospatial, Temporal), nPath, Sessionization, Attribution, and Scoring functions.

Use cases include production operational analytics, test and development, quality assurance, disaster recovery, data labs, and discovery.

Teradata Vantage [tier] includes:

- Teradata Vantage software
- Teradata Intelligent Memory [Advanced, Enterprise]
- Teradata In-Memory Optimization [Enterprise]
- Row Level Security
- Secure Zones
- Teradata Columnar and Temporal

and rights to use:

- Teradata Active System Management [Enterprise]
- Teradata Integrated Workload Management [Advanced]
- Teradata Studio
- Teradata Tools and Utilities

These tools are included with this VM or available as a free download.

The Base, Advanced, and Enterprise tiers include Teradata Premier Cloud Support; Developer includes Forum support. All tiers include rights to use:

- Teradata Data Stream Controller
- Teradata Query Service

Create



Define the user at Operating System level (Linux), set a password, and decide in which Resource Group Teradata Vantage is going to be. Carefully select the Location where you are going to launch the Teradata environment, as the virtual machine types you require may not exist in all Locations.



The screenshot shows the 'Create Teradata Vantage' wizard with the 'Basics' step selected. The left sidebar lists eight steps: 1. Basics (selected), 2. Teradata Database, 3. Viewpoint, 4. Server Management, 5. Teradata Query Service, 6. Data Stream Controller, 7. Ecosystem Manager, and 8. Data Mover. The 'Basics' step is titled 'Configure basic settings'. The main panel shows the configuration for the 'User name' (sanchopanza), 'Authentication type' (SSH public key selected), 'Password' (redacted), 'Confirm password' (redacted), 'Subscription' (Consumo interno de Microsoft Azure), 'Resource group' (New Teradata), and 'Location' (France Central). A blue 'OK' button is at the bottom right.

On the next screen, you must carefully choose the DBC password (as it is the super-user for the database) and keep it, as well as the number of nodes, disk size and virtual machine size as per your requirements. The database tier represents the level of features you get, and the price you pay for the database. You can leave the rest as default values.

All Teradata tiers require we pay license fees for the software, and our Azure subscriptions may be limited to use the Marketplace. We are going to use a Developer tier in this guide, as it doesn't require to pay software licenses and we can launch it in our personal Azure subscription. However, we are going to show how to fill up the form in this screen afterwards for an Enterprise tier as it is slightly different.



So, if we want to launch a Developer tier:

The screenshot shows the 'Create Teradata Vantage' wizard with 8 steps. Step 1 'Basics' is completed. Step 2 'Teradata Database' is currently selected, showing 'Configure Database'. Step 3 'Viewpoint' and Step 4 'Server Management' are also listed. The right panel displays 'Database Settings' with the following configuration:

- * System name prefix: quijote
- * DBC password: (redacted)
- * Confirm DBC password: (redacted)
- Japanese language support: No
- Database Version: 16.20
- Database Tier: Developer (selected)
- * VM Size: x Standard D15 v2
- Storage Size Per Node: Local Storage
- * Number of nodes: 1
- Temporal: (disabled)

An 'OK' button is at the bottom right of the settings panel.



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Data

Create Teradata Vantage

Database Settings

1 Basics Done ✓

2 Teradata Database Configure Database >

3 Viewpoint Configure Viewpoint >

4 Server Management Configure Server Managem... >

5 Teradata Query Service Configure Teradata Query S... >

6 Data Stream Controller Configure Data Stream Cont... >

7 Ecosystem Manager Configure Ecosystem Mana... >

8 Data Mover >

Database Version 16.20

Database Tier Developer Base Advanced Enterprise

* VM Size x Standard D15 v2

Storage Size Per Node Local Storage

* Number of nodes 1 ✓

Temporal Yes No

Row Level Security Yes No

Secure Zones Yes No

* Mainframe Connectivity 0

OK

As an example, the next 2 screens correspond to launching an Enterprise tier.



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Data

Create Teradata Vantage

Database Settings

1 Basics Done ✓

2 Teradata Database Configure Database >

3 Viewpoint Configure Viewpoint >

4 Server Management Configure Server Manag... >

5 Teradata Query Service Configure Teradata Query S... >

6 Data Stream Controller Configure Data Stream Cont... >

7 Ecosystem Manager Configure Ecosystem Mana... >

8 Data Mover >

* System name prefix ⓘ quijote ✓

* DBC password ⓘ ✓

* Confirm DBC password ✓

Japanese language support ⓘ No ✓

Database Version ⓘ 16.20

Database Tier ⓘ Developer Base Advanced Enterprise

* VM Size ⓘ x Standard E16s v3 >

Storage Size Per Node (in TB) ⓘ 6

Scale Out/In ⓘ None

* Number of nodes ⓘ

OK



The screenshot shows the 'Create Teradata Vantage' wizard interface. On the left, a vertical list of steps from 1 to 8 is shown, with step 1 'Basics' completed (green checkmark) and step 2 'Teradata Database' currently selected (blue background). On the right, the 'Database Settings' panel is displayed, containing the following configuration options:

- Enterprise** (selected tier)
- * VM Size**: Standard E16s v3
- Storage Size Per Node (in TB)**: 6
- Scale Out/In**: None
- * Number of nodes**: 2
- Temporal**: Yes (selected)
- Teradata Intelligent Memory (TIM)**: Yes (selected)
- Row Level Security**: Yes (selected)
- Secure Zones**: Yes (selected)
- * Mainframe Connectivity**: 0

OK button at the bottom right of the settings panel.

The next screens to launch a Teradata Vantage are the same, independently of the tier. We used a Development tier to write this guide, as we didn't have permissions to use other tiers in our subscriptions.

Viewpoint is a separate server which is used to monitor, configure some aspects of the database and do some housekeeping tasks. You can create a Teradata Vantage database without Viewpoint, and work with it, but the Viewpoint server may simplify many tasks, so it is better to create and configure it.



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Viewpo

Create Teradata Vantage

X

Viewpoint Settings

□ X

1 Basics Done ✓

2 Teradata Database Done ✓

3 Viewpoint Configure Viewpoint >

4 Server Management >
Configure Server Managem...

5 Teradata Query Service >
Configure Teradata Query S...

6 Data Stream Controller >
Configure Data Stream Cont...

7 Ecosystem Manager >
Configure Ecosystem Mana...

Viewpoint

Yes No



OK

This screenshot shows the 'Create Teradata Vantage' wizard in progress. Step 3, 'Viewpoint', is currently selected and highlighted in blue. A large orange arrow points upwards from the bottom of the screen towards the 'Viewpoint' configuration area. The 'Viewpoint' section contains a 'Yes' button, which is highlighted with a purple border, and a 'No' button. At the bottom right of the configuration panel is a blue 'OK' button.



The screenshot shows the 'Create Teradata Vantage' wizard interface. On the left, a vertical list of steps is shown:

- 1 Basics Done ✓
- 2 Teradata Database Done ✓
- 3 Viewpoint Configure Viewpoint >
- 4 Server Management Configure Server Managem... >
- 5 Teradata Query Service Configure Teradata Query S... >
- 6 Data Stream Controller Configure Data Stream Cont... >
- 7 Ecosystem Manager Configure Ecosystem Mana... >
- 8 Data Mover >

The current step, Step 3, is highlighted with a blue background. To the right of the steps is a 'Viewpoint Settings' configuration panel:

Viewpoint

Yes No

* Viewpoint system name prefix

* System nickname

* Viewpoint portal admin user password ✓

* Confirm portal admin user password ✓

Viewpoint Image version

* VM size >

OK

Server Management allows the Teradata Customer Service team to connect to the system and perform the tasks required by the customer as per the Support contact. We don't need it.



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Server Management Settings

Create Teradata Vantage

Server Management Settings

1 Basics Done ✓

2 Teradata Database Done ✓

3 Viewpoint Done ✓

4 Server Management >
Configure Server Management...

5 Teradata Query Service >
Configure Teradata Query S...

6 Data Stream Controller >
Configure Data Stream Cont...

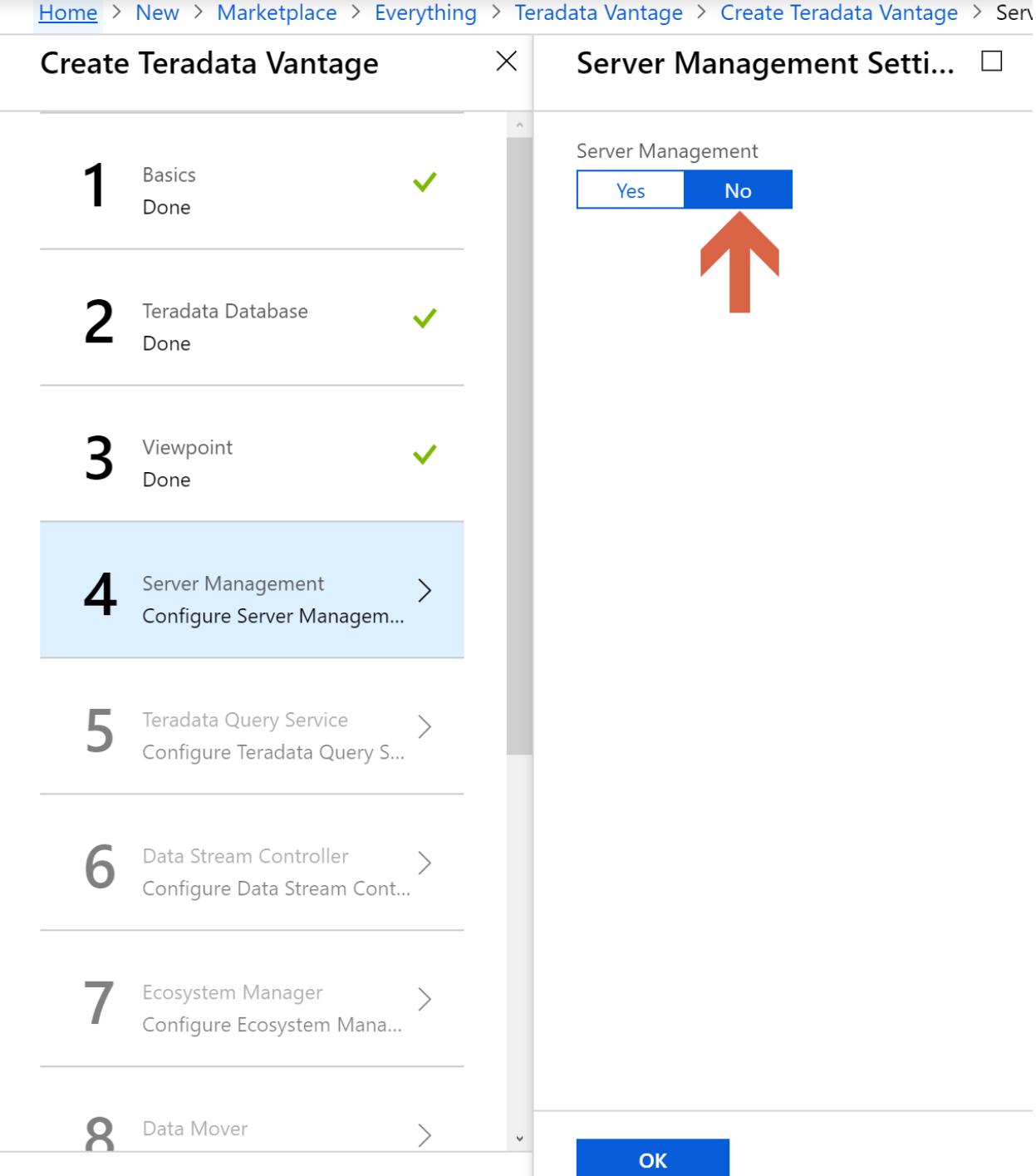
7 Ecosystem Manager >
Configure Ecosystem Mana...

8 Data Mover >

Server Management

Yes No

OK



We won't setup Teradata Query Service, Data Stream Controller, an Ecosystem Manager server, a Data Mover one, nor QueryGrid.



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Teradat

Create Teradata Vantage

Teradata Query Service Se... □ X

2	Teradata Database	Done	✓
3	Viewpoint	Done	✓
4	Server Management	Done	✓
5	Teradata Query Service	>	Configure Teradata Query S...
6	Data Stream Controller	>	Configure Data Stream Cont...
7	Ecosystem Manager	>	Configure Ecosystem Mana...
8	Data Mover	>	Configure Data Mover
9	QueryGrid Manager	>	Configure QueryGrid Manag...

Teradata Query Service

Yes No

OK



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Data St

Create Teradata Vantage

X Data Stream Controller se... □ X

1 Basics Done ✓

2 Teradata Database Done ✓

3 Viewpoint Done ✓

4 Server Management Done ✓

5 Teradata Query Service Done ✓

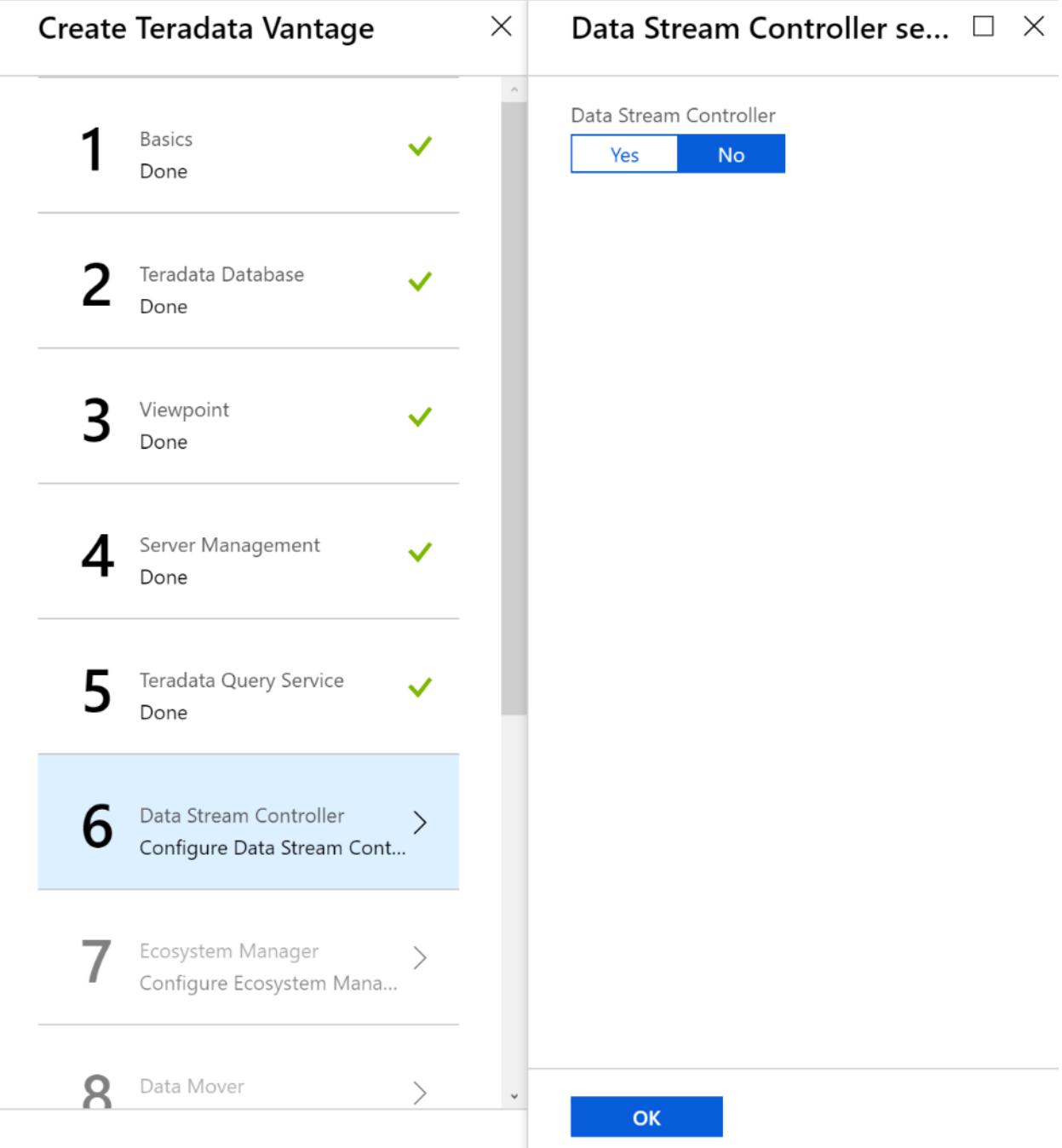
6 Data Stream Controller >
Configure Data Stream Cont...

7 Ecosystem Manager >
Configure Ecosystem Mana...

8 Data Mover >

Data Stream Controller

OK



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Ecosyst

Create Teradata Vantage

Ecosystem Manager Setti...

1 Basics Done ✓

2 Teradata Database Done ✓

3 Viewpoint Done ✓

4 Server Management Done ✓

5 Teradata Query Service Done ✓

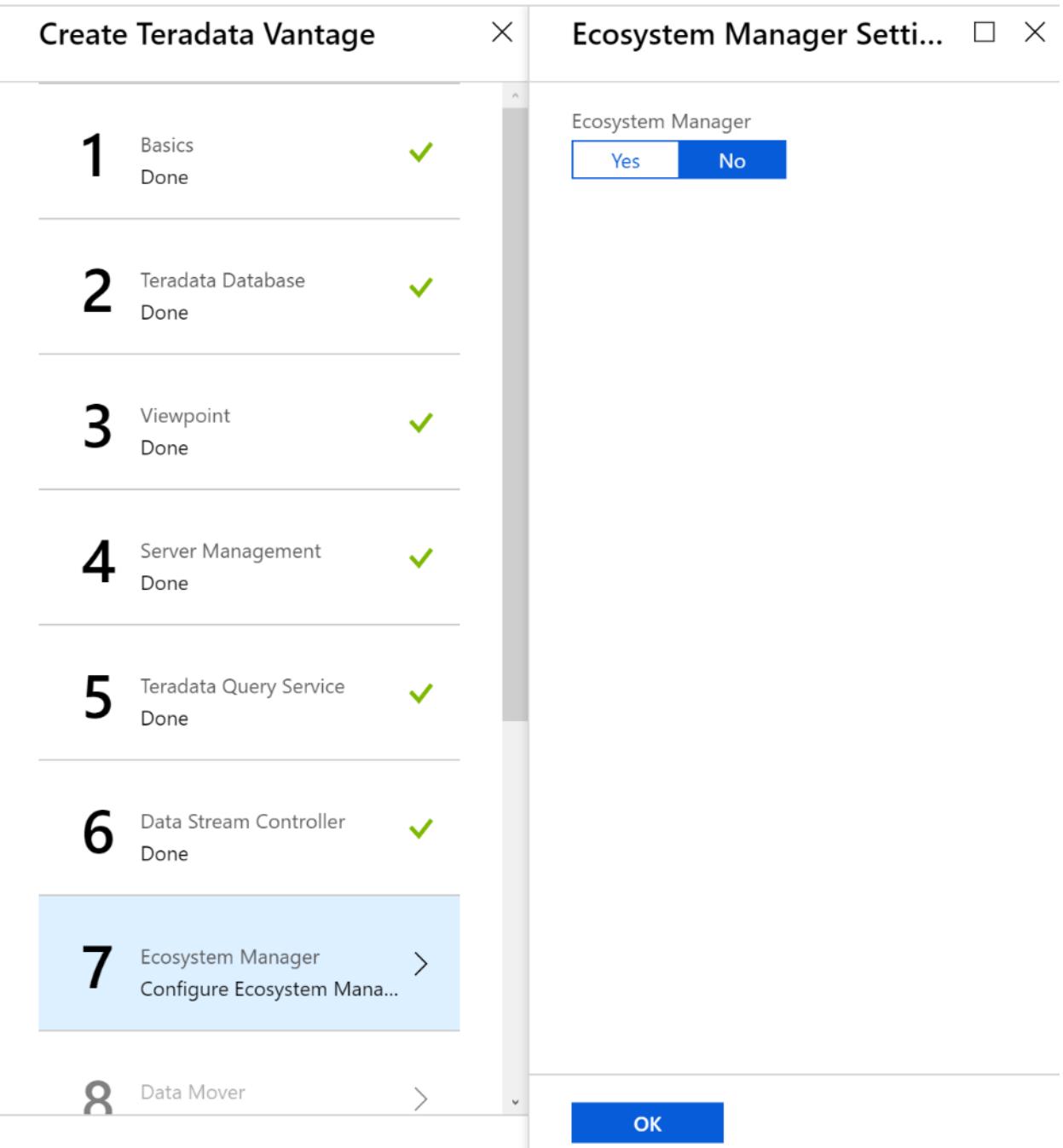
6 Data Stream Controller Done ✓

7 Ecosystem Manager >
Configure Ecosystem Mana...

8 Data Mover >

Ecosystem Manager
 Yes No

OK



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Data M

Create Teradata Vantage

X

5	Done	✓
4	Server Management	✓
5	Teradata Query Service	✓
6	Data Stream Controller	✓
7	Ecosystem Manager	✓
8	Data Mover	>
9	QueryGrid Manager	>
10	General Settings	>

Data Mover settings

□ X

i Data Mover is not available for Developer Tier

OK



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > QueryG

Create Teradata Vantage

QueryGrid Manager Setti... □ X

5	Done
4	Server Management Done
5	Teradata Query Service Done
6	Data Stream Controller Done
7	Ecosystem Manager Done
8	Data Mover Done
9	QueryGrid Manager > Configure QueryGrid Manag...
10	General Settings > Configure General Settings

OK

QueryGrid Manager is not available for Developer Tier

Review the general settings.



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > General Settings > Subnets

Create Teradata Vantage	General Settings	Subnets
5 Done	Virtual Network Configuration	* VM subnet name vmsubnet
4 Server Management Done	* Virtual network (new) vnet-teradata	* VM subnet address prefix 10.0.0.0/24
5 Teradata Query Service Done	Subnets Configure subnets	
6 Data Stream Controller Done	* NTP server list 0.pool.ntp.org,1.pool.ntp.org,2.pool.ntp.org...	
7 Ecosystem Manager Done	Time zone Europe/Madrid	
8 Data Mover Done		
9 QueryGrid Manager Done		
10 General Settings Configure General Settings		OK

Review the Summary and click OK:



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Summary

Create Teradata Vantage		Summary
6 Data Stream Controller Done		✓
7 Ecosystem Manager Done		✓
8 Data Mover Done		✓
9 QueryGrid Manager Done		✓
10 General Settings Done		✓
11 Summary Teradata Vantage		>
12 Buy		>

i Validation passed

Basics

Subscription	Consumo interno de Microsoft Azure
Resource group	Teradata
Location	France Central
User name	sanchopanza
Password	*****

Database Settings

System name prefix	quijote
DBC password	*****
Japanese language support	No
Database Version	16.20
Database Tier	Developer
VM Size	Standard D15 v2
Storage Size Per Node	Local Storage
Number of nodes	1
Temporal	Yes
Row Level Security	No
Secure Zones	No
Mainframe Connectivity	0

Viewpoint Settings

Viewpoint	Yes
Viewpoint system name prefix	viewpoint
System nickname	quijote
Viewpoint portal admin user p...	*****
Viewpoint Image version	Teradata Viewpoint Single System
VM size	Standard DS5 v2

Server Management Settings

OK [Download template and parameters](#)



Create Teradata Vantage

Summary

Validation passed

Secure Zones	No
Mainframe Connectivity	0
Viewpoint Settings	
Viewpoint	Yes
Viewpoint system name prefix	viewpoint
System nickname	quijote
Viewpoint portal admin user p...	*****
Viewpoint Image version	Teradata Viewpoint Single System
VM size	Standard DS5 v2
Server Management Settings	
Server Management	No
Teradata Query Service Settings	
Teradata Query Service	No
Data Stream Controller settings	
Data Stream Controller	No
Ecosystem Manager Settings	
Ecosystem Manager	No
Data Mover settings	
QueryGrid Manager Settings	
General Settings	
Virtual network	vnet-teradata
VM subnet	vmsubnet
VM subnet address prefix	10.0.0.0/24
NTP server list	0.pool.ntp.org,1.pool.ntp.org,2.pool.ntp.org,3.pool.ntp.org
Time zone	Europe/Madrid

OK [Download template and parameters](#)

Then we review the Terms of use and click “Create”.



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Create

Create Teradata Vantage		X	Create	□ >
1	Basics Done	✓	Teradata Vantage by Teradata Terms of use privacy policy	
2	Teradata Database Done	✓	Deploying this template will result in various actions being performed, which may include the deployment of one or more Azure resources or Marketplace offerings and/or transmission of the information you provided as part of the deployment process to one or more parties, as specified in the template. You are responsible for reviewing the text of the template to determine which actions will be performed and which resources or offerings will be deployed, and for locating and reviewing the pricing and legal terms associated with those resources or offerings.	
3	Viewpoint Done	✓	Current retail prices for Azure resources are set forth here and may not reflect discounts applicable to your Azure subscription.	
4	Server Management Done	✓	Prices for Marketplace offerings are set forth here , and the legal terms associated with any Marketplace offering may be found in the Azure portal; both are subject to change at any time prior to deployment.	
5	Teradata Query Service Done	✓	Neither subscription credits nor monetary commitment funds may be used to purchase non-Microsoft offerings. These purchases are billed separately. If any Microsoft products are included in a Marketplace offering (e.g., Windows Server or SQL Server), such products are licensed by Microsoft and not by any third party.	
6	Data Stream Controller Done	✓	Template deployment is intended for advanced users only. If you are uncertain which actions will be performed by this template, which resources or offerings will be deployed, or what prices or legal terms pertain to those resources or offerings, do not deploy this template.	
7	Ecosystem Manager Done	✓	Terms of use	
8	Data Mover Done	✓	By clicking "Create", I (a) agree to the legal terms and privacy statement(s) provided above as well as the legal terms and privacy statement(s) associated with each Marketplace offering that will be deployed using this template, if any; (b) authorize Microsoft to charge or bill my current payment method for the fees associated with my use of the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that Microsoft may share my contact information and transaction details with any third-	
Create				



Home > New > Marketplace > Everything > Teradata Vantage > Create Teradata Vantage > Create

Create Teradata Vantage		X	Create	□ >
1	Basics Done	✓	<p>Deploying this template will result in various actions being performed, which may include the deployment of one or more Azure resources or Marketplace offerings and/or transmission of the information you provided as part of the deployment process to one or more parties, as specified in the template. You are responsible for reviewing the text of the template to determine which actions will be performed and which resources or offerings will be deployed, and for locating and reviewing the pricing and legal terms associated with those resources or offerings.</p>	
2	Teradata Database Done	✓	<p>Current retail prices for Azure resources are set forth here and may not reflect discounts applicable to your Azure subscription.</p>	
3	Viewpoint Done	✓	<p>Prices for Marketplace offerings are set forth here, and the legal terms associated with any Marketplace offering may be found in the Azure portal; both are subject to change at any time prior to deployment.</p>	
4	Server Management Done	✓	<p>Neither subscription credits nor monetary commitment funds may be used to purchase non-Microsoft offerings. These purchases are billed separately. If any Microsoft products are included in a Marketplace offering (e.g., Windows Server or SQL Server), such products are licensed by Microsoft and not by any third party.</p>	
5	Teradata Query Service Done	✓	<p>Template deployment is intended for advanced users only. If you are uncertain which actions will be performed by this template, which resources or offerings will be deployed, or what prices or legal terms pertain to those resources or offerings, do not deploy this template.</p>	
6	Data Stream Controller Done	✓	<p>Terms of use</p> <p>By clicking "Create", I (a) agree to the legal terms and privacy statement(s) provided above as well as the legal terms and privacy statement(s) associated with each Marketplace offering that will be deployed using this template, if any; (b) authorize Microsoft to charge or bill my current payment method for the fees associated with my use of the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that Microsoft may share my contact information and transaction details with any third-party sellers of the offering(s). Microsoft assumes no responsibility for any actions performed by third-party templates and does not provide rights for third-party products or services. See the Azure Marketplace Terms for additional terms.</p>	
7	Ecosystem Manager Done	✓	<p><input checked="" type="checkbox"/> I give Microsoft permission to use and share my contact information so that Microsoft or the Provider can contact me regarding this product and related products.</p>	
8	Data Mover	✓	<p>Create</p>	

The deployment of Teradata Vantage and Viewpoint will start, and it will take 30-40 minutes to complete. When it finishes, your resource group will look like this:



NAME	TYPE	LOCATION
diagu4g5ts3756rgy	Storage account	France Central
quipjote-as	Availability set	France Central
quipjote-nic00	Network interface	France Central
quipjote-nsg	Network security group	France Central
quipjote-vm0	Virtual machine	France Central
quipjote-vm0-osdisk	Disk	France Central
viewpoint-nic10	Network interface	France Central
viewpoint-nsg	Network security group	France Central
viewpoint-vm0	Virtual machine	France Central
viewpoint-vm0-osdisk	Disk	France Central
vnet-teradata	Virtual network	France Central
vp-datadisk10	Disk	France Central
vpdigu4g5ts3756rgy	Storage account	France Central

3. Public IPs

When you deploy Teradata Vantage products in Azure using a solution template as we did in section 2, private IPs are assigned within the same VNet or VNet peering, but public IPs are not created.

Computer name	quipjote-vm0
Operating system	Linux
Size	Standard D15 v2 (20 vcpus, 140 GB memory)
Public IP address	[Redacted]
Virtual network/subnet	vnet-teradata/vmsubnet
DNS name	-



The screenshot shows the Azure portal interface for a virtual machine named 'viewpoint-vm0'. The left sidebar lists options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Disks, Size, and Security. The main panel displays the VM's configuration, including its resource group ('Teradata'), status ('Running'), location ('France Central'), subscription ('Consumo interno de Microsoft Azure'), and size ('Standard DSS v2 (16 vcpus, 56 GB memory)'). A callout box highlights the 'Public IP address' field, which is currently listed as '-'.

If we want to connect to the Teradata systems through Internet, we need to create public IPs and assign them to Teradata Vantage and Viewpoint virtual machines.

First, we go "Create a resource".

The screenshot shows the Microsoft Azure homepage. On the left, there is a navigation bar with links for Preview, Home, Dashboard, All services, FAVORITES, and All resources. A large orange arrow points to the 'Create a resource' button, which is located at the top of the main content area. The main content area shows a search bar and a list of resources, including 'viewpoint-vm0' (Virtual machine) and other items like Overview, Activity log, and Access control.

Search for "Public IP address".



Home > New

New

Public IP address

Get started Windows Server 2016 VM
Recently created Quickstart tutorial

Everything

Public IP address

Pricing Operating System Publisher

All All All

Results

NAME	PUBLISHER	CATEGORY
Public IP address	Microsoft	Networking
Public IP Prefix (preview)	Microsoft	Networking
Reserved IP Address	Microsoft	Networking

Click "Create".



Public IP address

Microsoft



A public IP address is a dynamic or static IP address that you can assign to virtual machines, load balancers, and virtual network gateways to communicate with the Internet. Your public IP addresses are associated with your Azure subscription, and can be moved freely between Azure resources. The address of dynamic public IP address may change when dissociated and moved between resources, or when the associated resource is shutdown or deleted. You can use a static public IP address to ensure that the assigned address remains the same, even if the associated resource is shutdown or deleted.

In the Classic deployment model, a public IP address was named an instance-level public IP (ILPIP) address when assigned to a virtual machine or role instance directly, and a virtual IP address (VIP) when assigned to a cloud service. Furthermore, a reserved IP address could be associated to the VIP of a cloud service to ensure that the assigned address remained the same even if its virtual machines or deployments were stopped. These concepts have now been unified in the Resource Manager deployment model with the public IP address resource.

Save for later

PUBLISHER

Microsoft

USEFUL LINKS

[Service overview](#)
[Pricing details](#)



Create

Provide the information for the public IP, and click “Create”.



Home > New > Public IP address > Create publ

Create public IP address

* Name
 ✓

* SKU i
 Basic Standard

* IP Version i
 IPv4 IPv6

* IP address assignment
 Dynamic Static

* Idle timeout (minutes) i

DNS name label i
 ✓
.francecentral.cloudapp.azure.com

Create an IPv6 address

* Subscription
 ▼

* Resource group
 ▼
[Create new](#)

* Location
 ▼

Create [Automation options](#)

We come back to “Create a resource” to create the second public IP.



The screenshot shows the Microsoft Azure portal homepage. At the top, there's a navigation bar with 'Preview' (orange), 'Microsoft Azure' (black), 'Report a bug' (orange), and a search bar ('Search resources, services'). Below the navigation bar, a blue banner says 'Choose your default view' with a 'Home' button. To the left, a sidebar has a 'Create a resource' button with a green plus sign and a red arrow pointing to it. Other sidebar items include 'Home', 'Dashboard', 'All services', 'FAVORITES' (with a star icon), 'All resources', and 'Resource groups'. On the right, under 'Azure services', there are icons for 'Virtual machines' (monitor with cube), 'Storage accounts' (two stacked boxes), and 'Cognitive' (cloud with brain). A 'See all (+100) >' link is also present.

Search for “Public IP address”.

The screenshot shows the 'New' blade in the Azure portal. The URL bar indicates 'Home > New'. The main heading is 'New'. A search bar at the top contains 'Public IP address'. Below the search bar, a list of results is shown, with 'Public IP address' being the first item. Other results include 'Create Marketplace' and 'Popular'. At the bottom, there are sections for 'Get started' (Windows Server 2016 VM Quickstart tutorial) and 'Recently created'.



Everything

Public IP address

Pricing: All | Operating System: All | Publisher: All

Results

NAME	PUBLISHER	CATEGORY
Public IP address	Microsoft	Networking
Public IP Prefix (preview)	Microsoft	Networking
Reserved IP Address	Microsoft	Networking



Click "Create".



Home > New > Public IP address

Public IP address

Microsoft

A public IP address is a dynamic or static IP address that you can assign to virtual machines, load balancers, and virtual network gateways to communicate with the Internet. Your public IP addresses are associated with your Azure subscription, and can be moved freely between Azure resources. The address of dynamic public IP address may change when dissociated and moved between resources, or when the associated resource is shutdown or deleted. You can use a static public IP address to ensure that the assigned address remains the same, even if the associated resource is shutdown or deleted.

In the Classic deployment model, a public IP address was named an instance-level public IP (ILPIP) address when assigned to a virtual machine or role instance directly, and a virtual IP address (VIP) when assigned to a cloud service. Furthermore, a reserved IP address could be associated to the VIP of a cloud service to ensure that the assigned address remained the same even if its virtual machines or deployments were stopped. These concepts have now been unified in the Resource Manager deployment model with the public IP address resource.

 Save for later

PUBLISHER Microsoft

USEFUL LINKS [Service overview](#) [Pricing details](#)



Create

Provide the information for the public IP and click “Create”.



Home > New > Public IP address > Create publ

Create public IP address

* Name
viewpoint-ip ✓

* SKU i
 Basic Standard

* IP Version i
 IPv4 IPv6

* IP address assignment
 Dynamic Static

* Idle timeout (minutes) i
 4

DNS name label i
viewpoint ✓
.francecentral.cloudapp.azure.com

Create an IPv6 address

* Subscription
Consumo interno de Microsoft Azure ✓

* Resource group
Teradata ✓
[Create new](#)

* Location
France Central ✓

Create [Automation options](#)

After creating the two public IPs, the resource group looks like this:



Cookbook to set up a Teradata Virtual Machine in Azure

CELIA MURIEL

NAME	TYPE	LOCATION
diagu4g5ts3756rgy	Storage account	France Central
quipjote-as	Availability set	France Central
quipjote-ip	Public IP address	France Central
quipjote-nic00	Network interface	France Central
quipjote-nsg	Network security group	France Central
quipjote-vm0	Virtual machine	France Central
quipjote-vm0-osdisk	Disk	France Central
viewpoint-ip	Public IP address	France Central
viewpoint-nic10	Network interface	France Central
viewpoint-nsg	Network security group	France Central
viewpoint-vm0	Virtual machine	France Central
viewpoint-vm0-osdisk	Disk	France Central
vnet-teradata	Virtual network	France Central
vp-datadisk10	Disk	France Central
vpdigu4g5ts3756rgy	Storage account	France Central

Select **quipjote-ip** and click on “Associate”.

We select “Network interface” as resource type and choose the network interface **quipjote-nic00**.



Home > Resource groups > Teradata > quijote-ip > Associate public IP address > Choose network interface

Associate public IP address quijote ip	X	Choose network interface <input type="checkbox"/> X
Choose the resource to which you want to associate this public IP address.		
Resource type	These are the network interfaces in the selected subscription and location 'France Central'.	
Network interface	 qui�ote-nic00 Teradata	
* Network interface	>	
Choose a network interface	 viewpoint-nic10 Teradata	

Click OK.



Home > Resource groups > Teradata > quijote-ip > Associate public IP address

Associate public IP address

quijote-ip

Choose the resource to which you want to associate this public IP address.

Resource type

Network interface

* Network interface >
quijote-nic00



OK

Now let's select viewpoint-ip in the resource group and click on "Associate".



The screenshot shows the Azure portal interface for managing a public IP address named 'viewpoint-ip'. On the left, there's a navigation sidebar with options like Overview, Activity log, Access control (IAM), Tags, Configuration, Properties, Locks, Automation script, Support + troubleshooting, and New support request. The main content area displays details for the IP address, including its Resource group (Teradata), Location (France Central), Subscription name (Consumo interno de Microsoft Azure), Subscription ID (53d1ee67-5e22-4dbc-976d-577a64136087), SKU (Basic), IP address (-), DNS name (viewpoint.francecentral.cloudapp.azure.com), and Associated to (-). At the top right, there are buttons for Associate (highlighted with a red box), Dissociate, Move, and Delete.

We select “Network interface” as resource type, and choose the network interface viewpoint-nic10

This screenshot shows two overlapping Azure dialogs. The left dialog is titled 'Associate public IP address' for the resource 'viewpoint-ip'. It has a dropdown menu for 'Resource type' where 'Network interface' is selected and highlighted with a red box. Below this, there's a note: 'Choose the resource to which you want to associate this public IP address.' and a link 'Choose a network interface' with a right-pointing arrow. The right dialog is titled 'Choose network interface'. It contains a message: 'These are the network interfaces in the selected subscription and location 'France Central''. It lists two network interfaces: 'quiijote-nic00' (Teradata) and 'viewpoint-nic10' (Teradata), with 'viewpoint-nic10' also highlighted with a red box.

Click OK.



Home > Resource groups > Teradata > viewpoint-ip > Associate public IP address

Associate public IP address

viewpoint-ip

Choose the resource to which you want to associate this public IP address.

Resource type

Network interface

* Network interface
viewpoint-nic10 >



OK

4. Connect to Teradata Vantage with Teradata Studio Express

We go to Teradata Vantage virtual machine in the Azure portal and select “Networking”.



Cookbook to set up a Teradata Virtual Machine in Azure

CELIA MURIEL

Home > Resource groups > Teradata > quijsote-vm0

quijsote-vm0
Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop Capture Delete Refresh

Resource group (change)
Teradata

Status
Running

Location
France Central

Subscription (change)
Consumo interno de Microsoft Azure

Subscription ID
53d1ee67-5e22-4dbc-976d-577a64136087

Computer name
quijsote-vm0

Operating system
Linux

Size
Standard D15 v2 (20 vcpus, 140 GB memory)

Public IP address
40.89.157.7

Virtual network/subnet
vnet-teradata/vmsubnet

DNS name
quijsote.francecentral.cloudapp.azure.com

Tags (change)

component : database instanceType : database

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

Networking

CPU (average) Network (total)

Tags

component : database instanceType : database

1 hour 6 hours 12 hours 1 day 7 days 30 days

Networking

100 80 60 40 20

100 80 60 40 20

Click on “Add inbound port rule” in quijsote-nic00.

Home > Resource groups > Teradata > quijsote-vm0 - Networking

quijsote-vm0 - Networking
Virtual machine

Search (Ctrl+ /)

Attach network interface Detach network interface

Network Interface: quijsote-nic00 Effective security rules Topology

Virtual network/subnet: vnet-teradata/vmsubnet Public IP: **40.89.157.7** Private IP: **10.0.0.4** Accelerated networking: **Disabled**

APPLICATION SECURITY GROUPS

Configure the application security groups

INBOUND PORT RULES

Network security group **quijsote-nsg** (attached to network interface: **quijsote-nic00**) Impacts 0 subnets, 1 network interfaces

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
100	Allow SSH	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerIn...	Any	Any	AzureLoadBal...	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Add inbound port rule

OUTBOUND PORT RULES

Network security group **quijsote-nsg** (attached to network interface: **quijsote-nic00**) Impacts 0 subnets, 1 network interfaces

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow

Add outbound port rule

Tags

component : database instanceType : database

1 hour 6 hours 12 hours 1 day 7 days 30 days

Networking



We open port 1025 for protocol TCP.

 Add inbound security rule X

 Basic

* Source i

* Source port ranges i

* Destination i

* Destination port ranges i

* Protocol
 Any TCP UDP

* Action

* Priority i

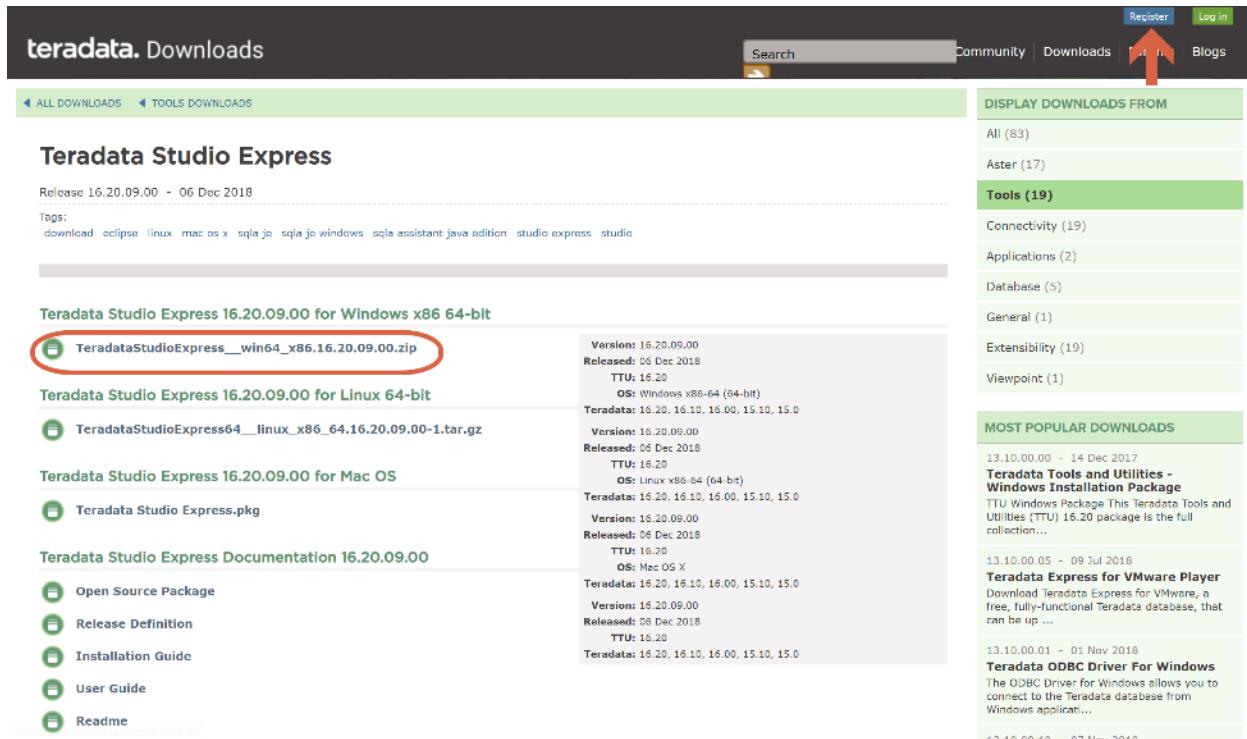
* Name

Description



In your laptop, open a browser and navigate to [downloads](#) in [Teradata Community](#). Click on [Teradata Studio Express](#), and choose the version that better suits you. It should be the same as the Teradata Vantage version you have deployed in Azure, and if you have a 32 or 64-bits system. In this guide, we are going to install Teradata Studio Express 16.20.09.00 for Windows x86 64-bit.





The screenshot shows the teradata Downloads website. At the top, there's a navigation bar with 'teradata. Downloads', a search bar, and links for 'Community', 'Downloads', 'Tools', and 'Blogs'. Below the navigation, there's a section for 'DISPLAY DOWNLOADS FROM' with categories like 'All (83)', 'Aster (17)', and 'Tools (19)'. The main content area shows 'Teradata Studio Express 16.20.09.00' for Windows x86 64-bit, which is circled in red. To the right of the download link, there's a detailed product description table. Further down, there are sections for Linux and Mac OS versions, and documentation files like 'Teradata Studio Express Documentation 16.20.09.00'.

When you click on the link of the Teradata Studio Express version you choose, you'll have to log in. If you don't have a user for Teradata Community yet, register in the button shown in the screen above. Anyone is entitled to do it.

Log In

If you don't have a username and password, [create an account](#).

Username

Password



I'm not a robot



reCAPTCHA
Privacy - Terms

[Log in](#)

[Forget your password?](#)



Scroll down to the bottom of the License Agreement, and click on "I Agree".

License Agreement

Specific Terms of Use - License Agreement for Teradata Studio Express 16.20.09.00 for Windows x86 64-bit

License Reference: 197336/218654 (Teradata Studio License Agreement) @ 200998/78/1545148472

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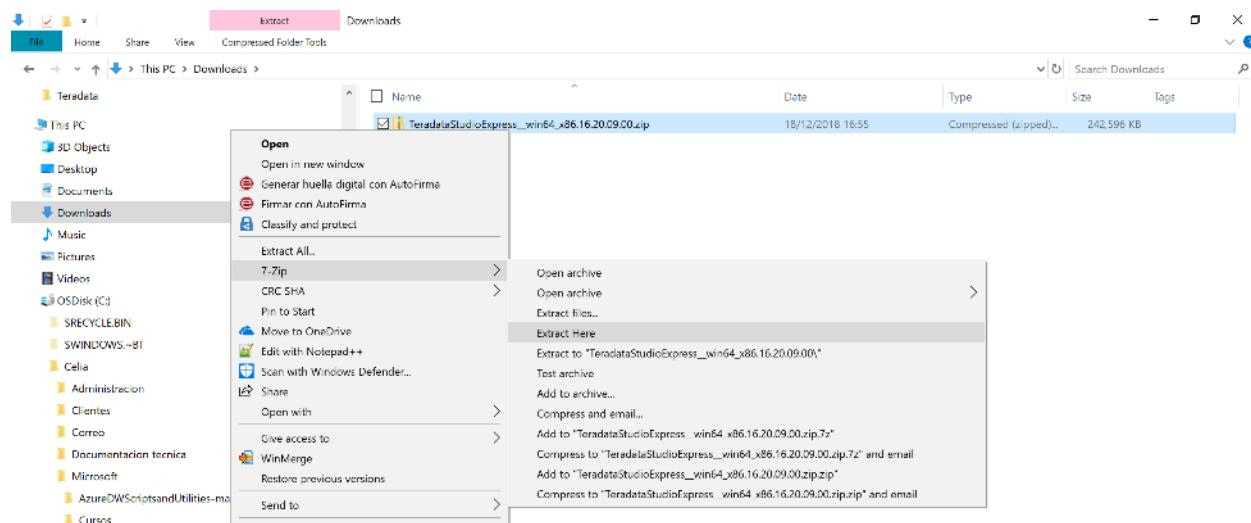
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**Click "Cancel" if you do not agree to the terms and conditions of this Agreement.
Clicking "I Agree" will start the download immediately.**

I Agree

Cancel

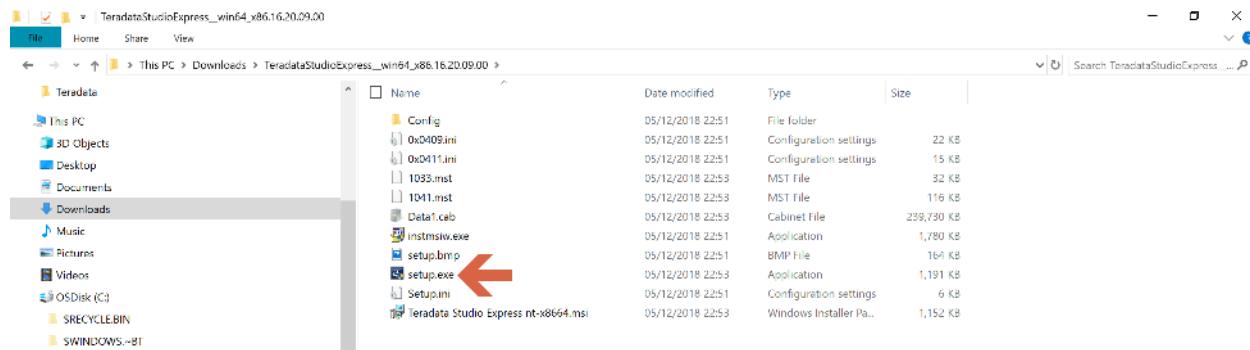
Save the file to a location on your computer, and unzip the file you downloaded to a directory on your laptop.



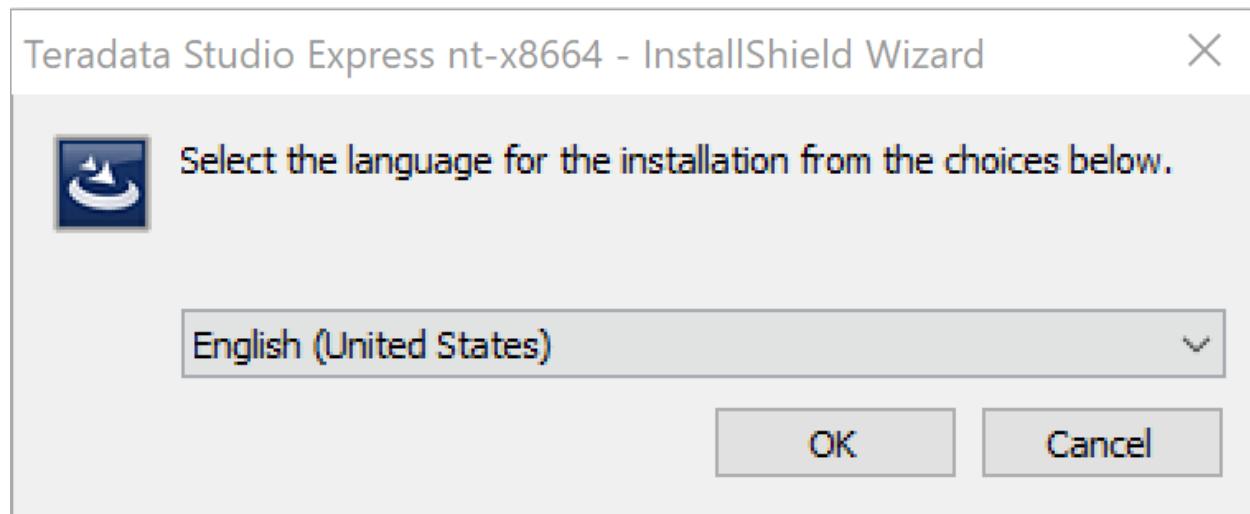
Teradata Studio Express is a Java client. If you don't have it yet, you need to install Java Runtime Environment (JRE).

Go to the folder where you unzip Teradata Studio Express, and execute setup.exe



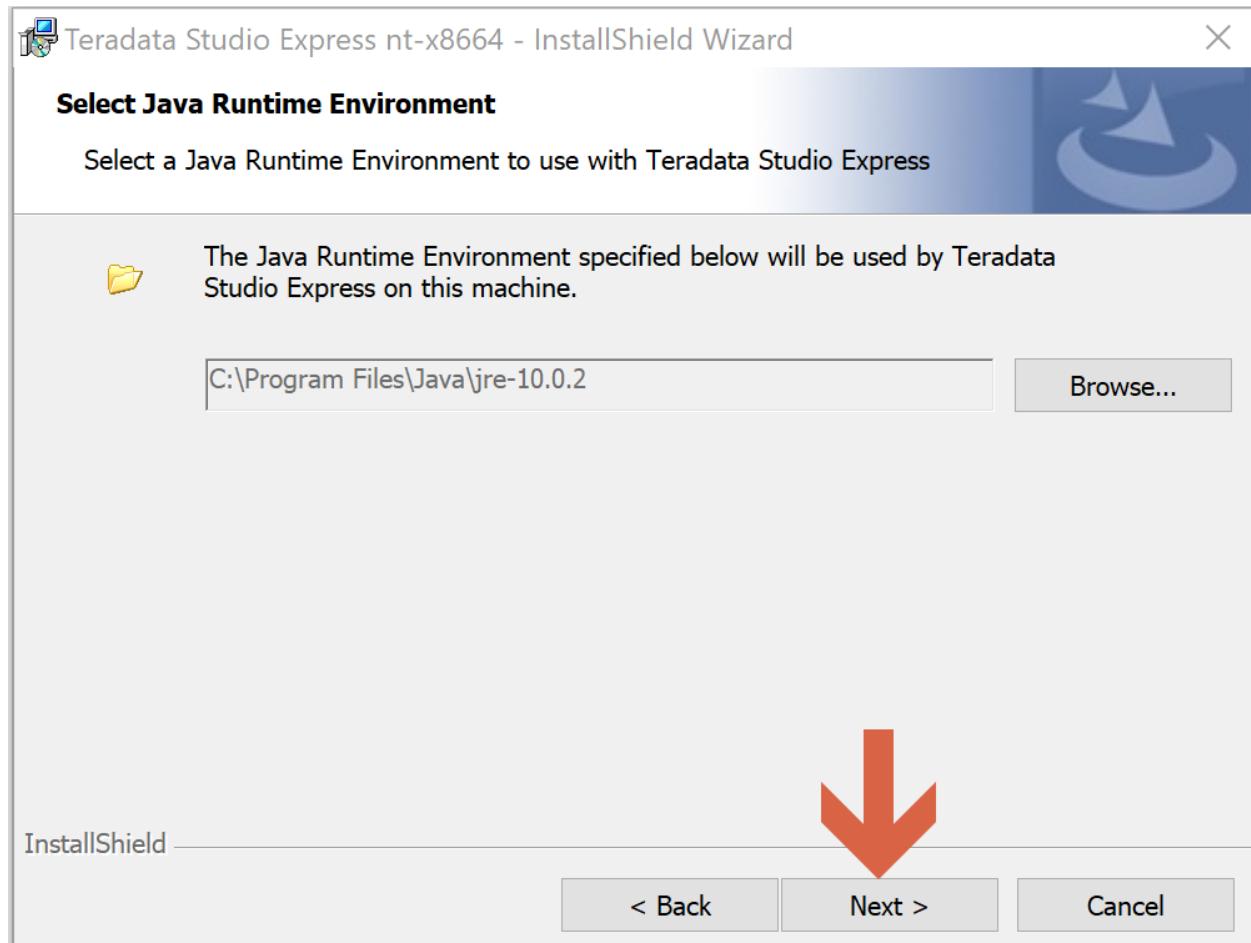


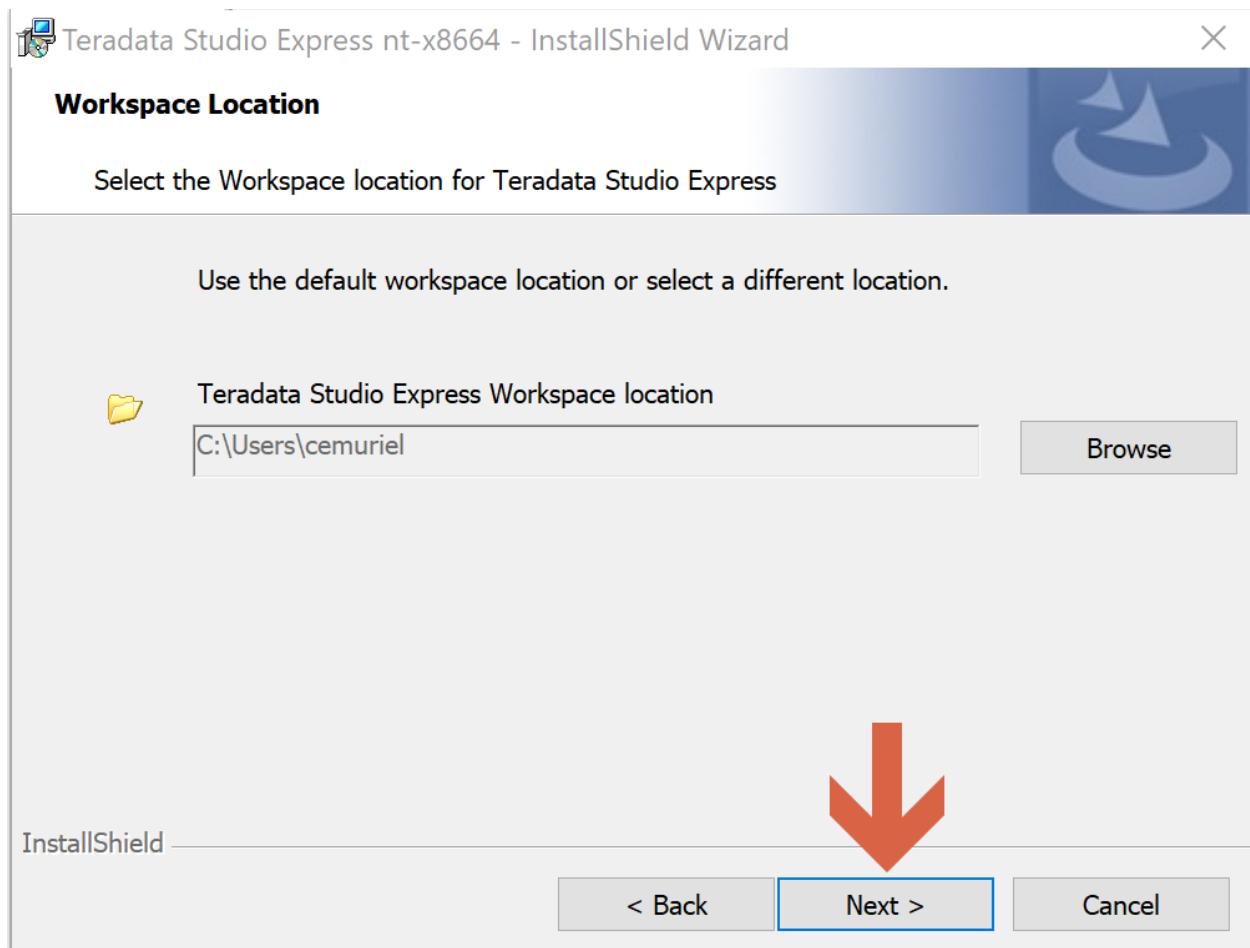
Run the program and follow the instructions.

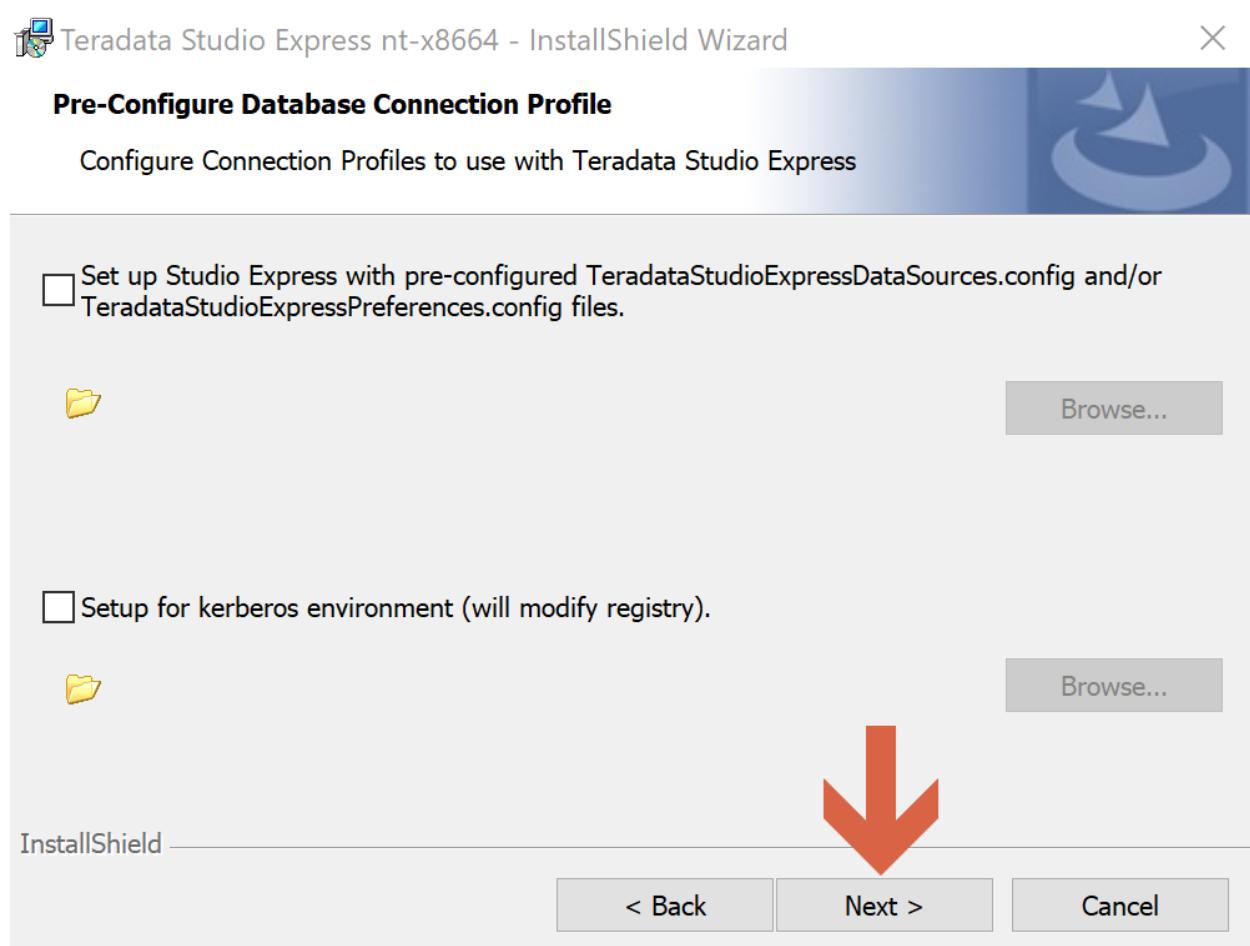


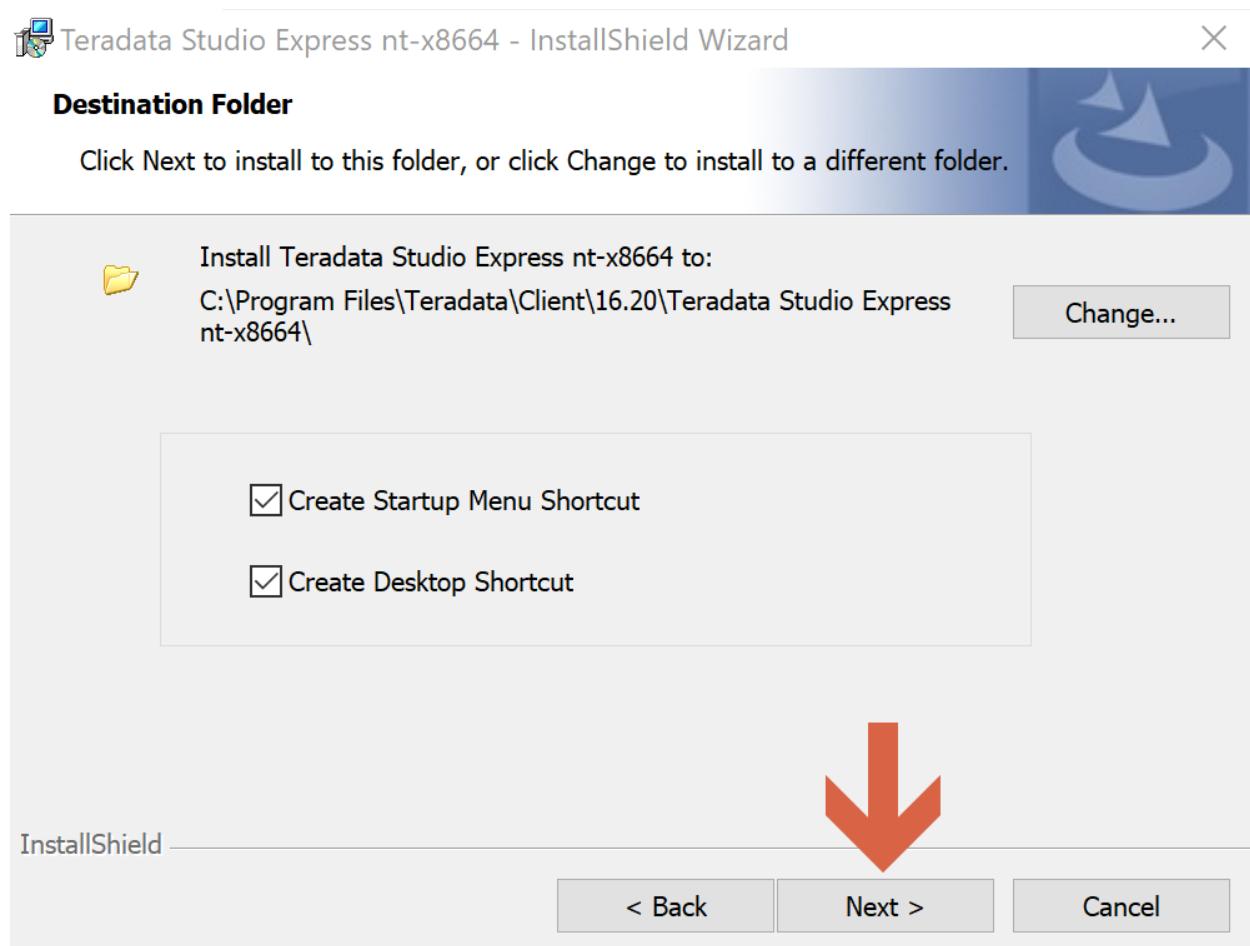


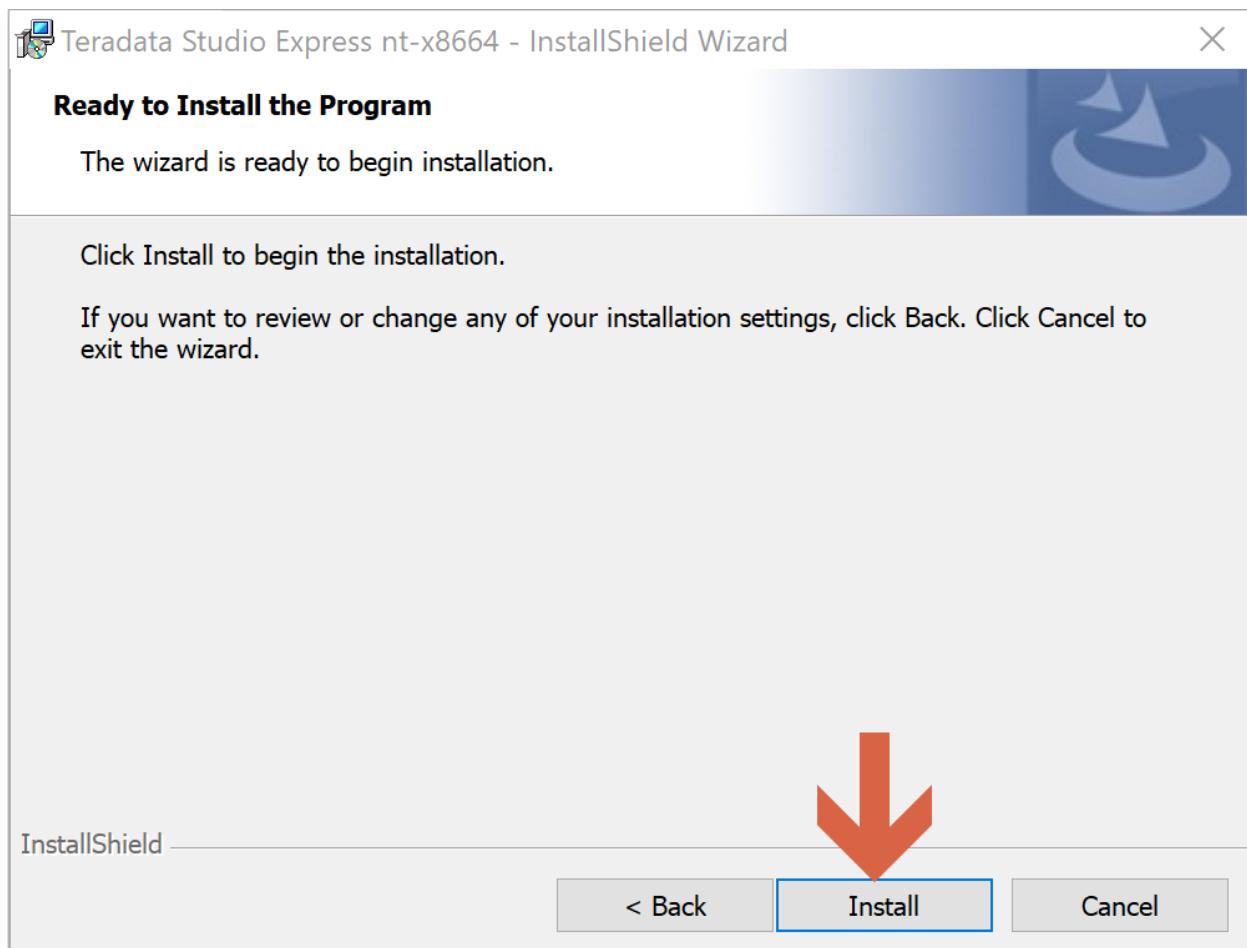








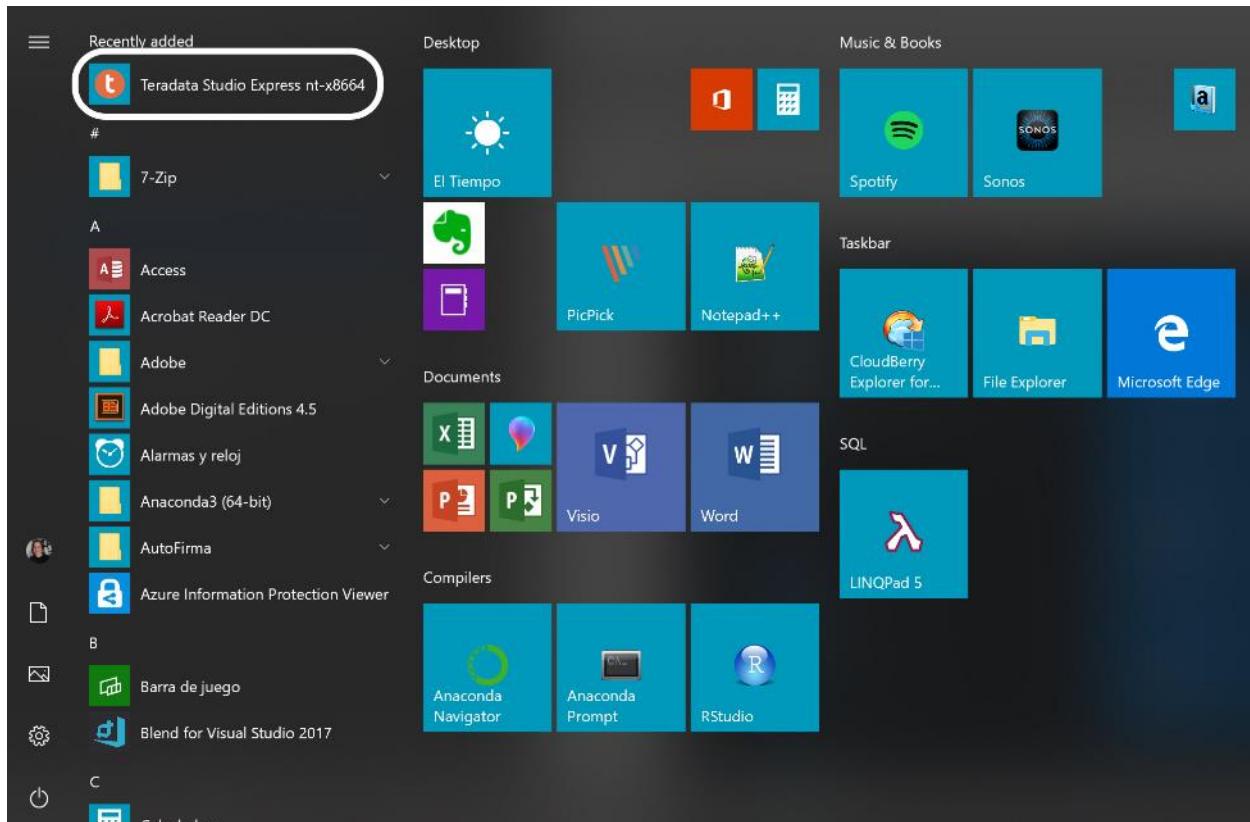






Teradata Studio Express is already installed on our laptop. We can already open it and connect to Teradata Vantage.





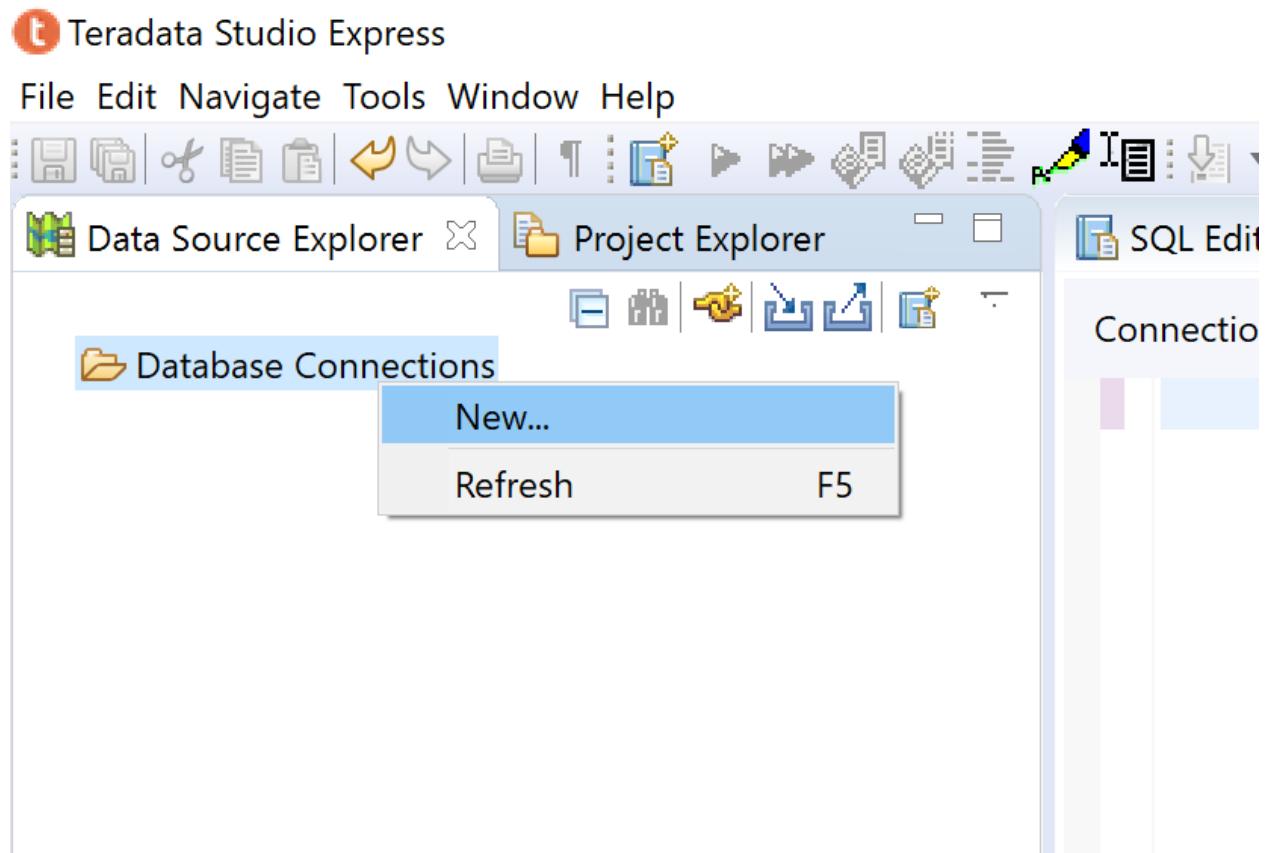
We go to the Teradata Vantage virtual machine in the Azure portal and take note of its IP address and DSN name.

The screenshot shows the Azure portal's 'Virtual machines' section. A specific VM named 'quiijote-vm0' is selected. The 'Overview' tab is active. Key details shown include:

- Resource group:** Teradata
- Status:** Running
- Location:** France Central
- Subscription:** Consumo interno de Microsoft Azure
- Subscription ID:** 53d1ee67-5e22-4dbc-976d-577a64136087
- Public IP address:** 40.89.157.7 (highlighted with a red box)
- Virtual network/subnet:** vnet-teradata/vmsubnet
- DNS name:** quiijote.francecentral.cloudapp.azure.com (highlighted with a red box)

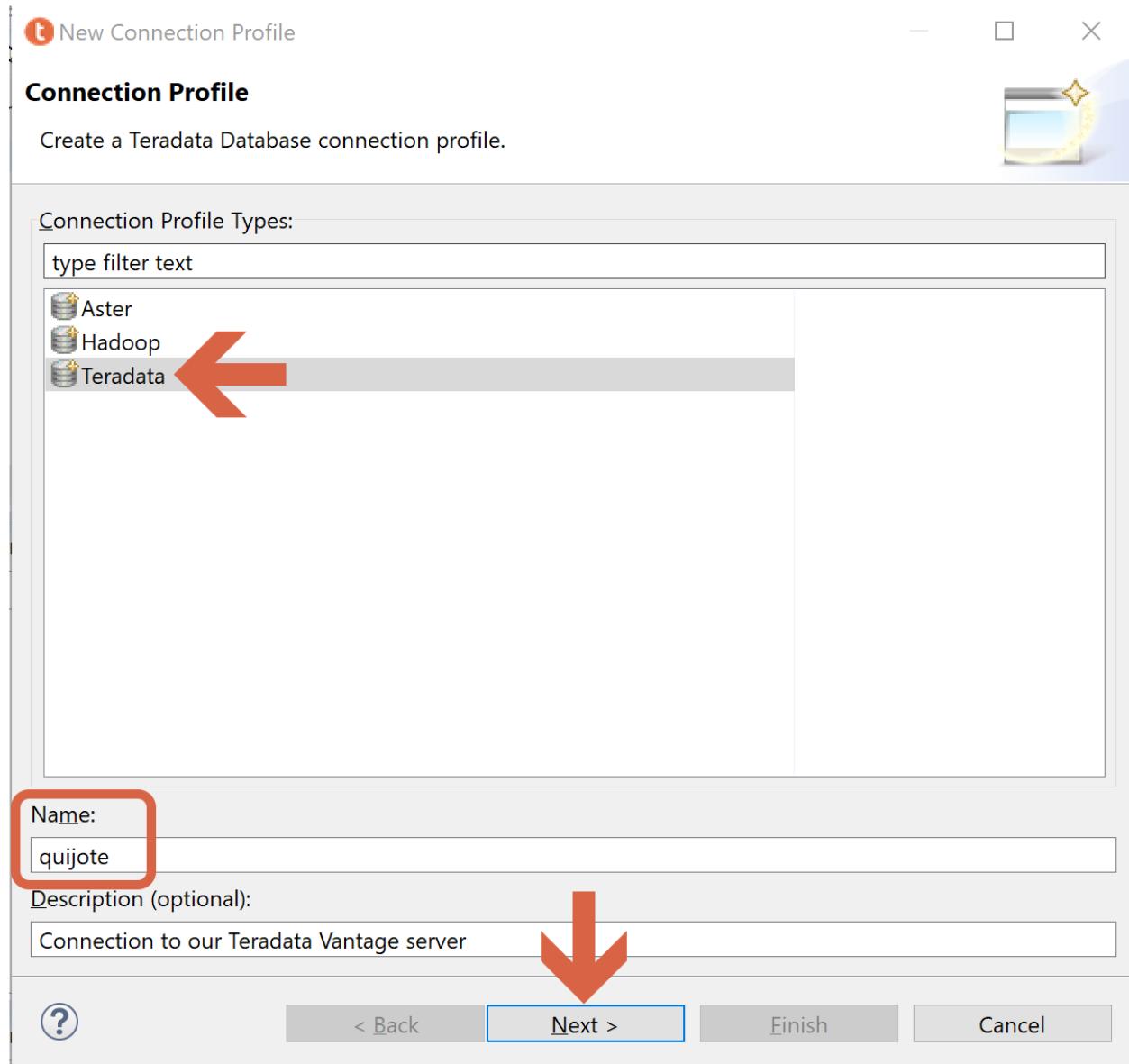
We come back to Teradat Studio Express, right-click on Database Connections, and click on New.





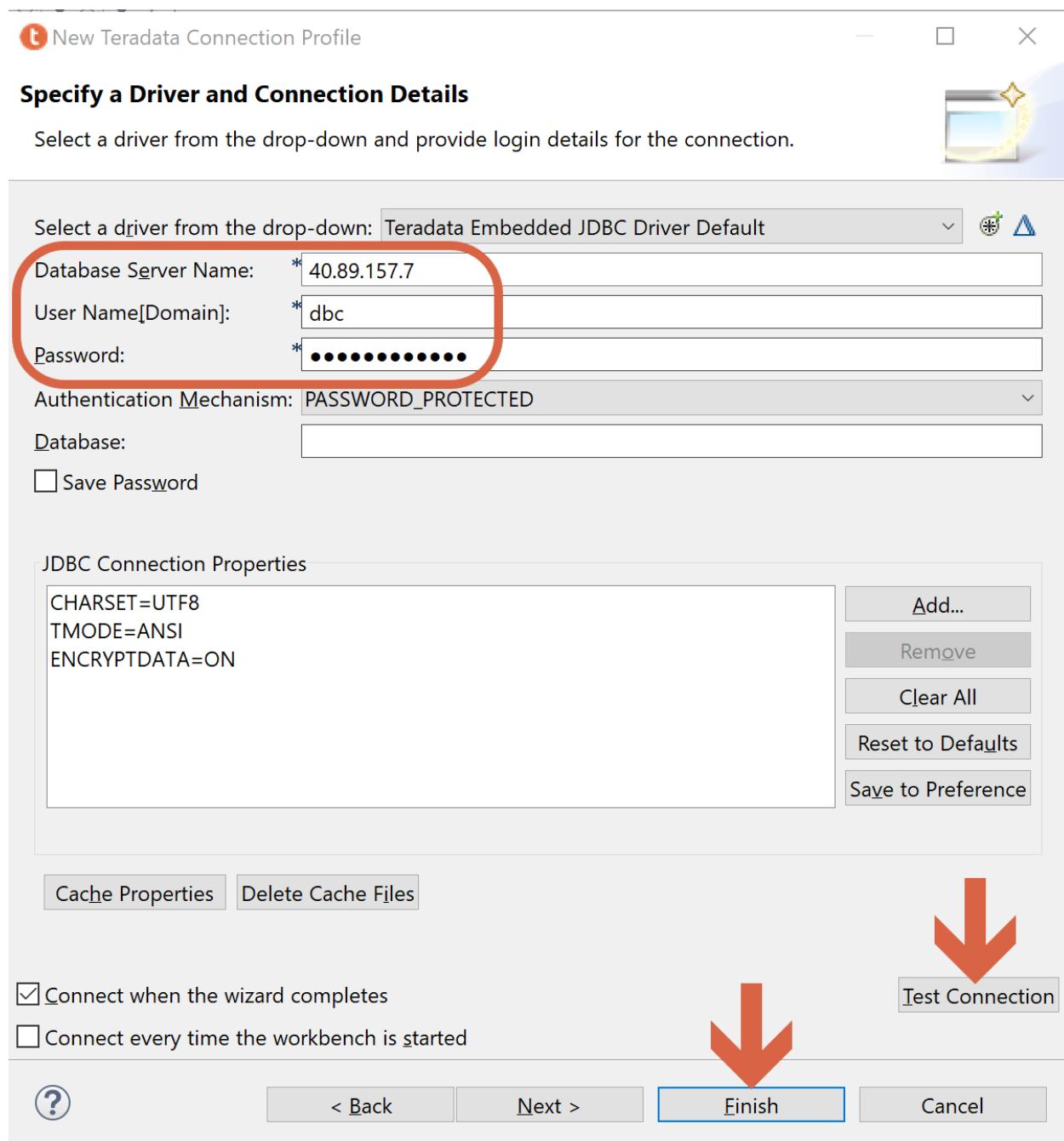
We select a Teradata connection.





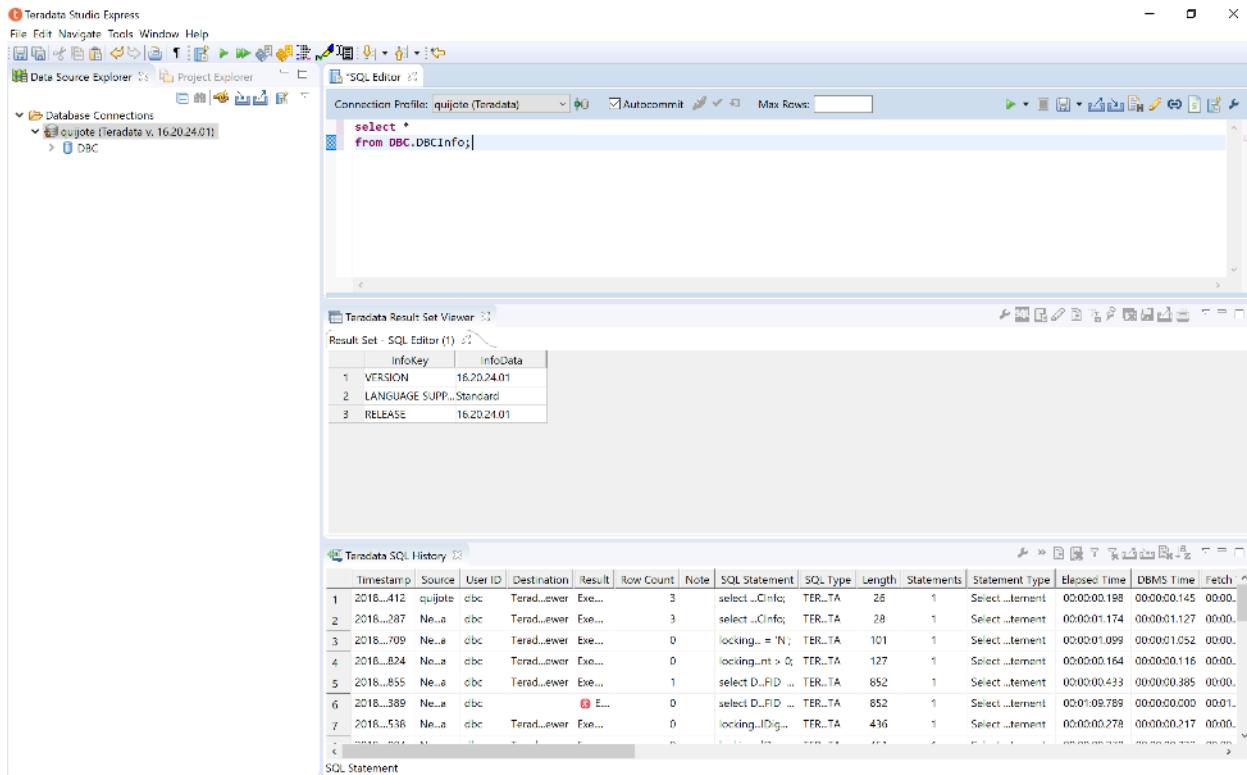
We provide with the information about the public IP address of our Teradata Vantage instance, as well as dbc user and password (we setup dbc password in screen 2, section 2). Then we click on “Test connection” to ping the Teradata virtual machine. If there is no error, we can click on “Finish”.





We run a test query to check our connection with Teradata works well.





5. Connect to Teradata Vantage with other clients – Example BTEQ

If you plan to install Teradata Tools and Utilities (TTU) on a Teradata virtual machine, you cannot install TTU packages on Teradata Vantage virtual machine.

You can install TTU either on an Azure virtual machine running a supported version of Linux or Windows, or on another system running a supported operating system. See [Teradata® Tools and Utilities Supported Platforms and Product Versions](#) and [Teradata Tools and Utilities for Microsoft Windows Installation Guide](#) at [Teradata documentation website](#).

Obtain the TTU packages from one of the following locations:

1. Teradata customer portal for all supported OS systems
2. Teradata Vantage virtual machine at /var/opt/teradata/TTU_pkgs for Windows OS, Linux or Mac OS X Package

Install and configure the TTU packages according to the instructions in the appropriate installation guide for Teradata Tools and Utilities. The installation guide for Windows is [here](#).

As an example, we are going to install BTEQ in Windows in this section.

At the Azure portal, take note of the public IP address and the DNS name:

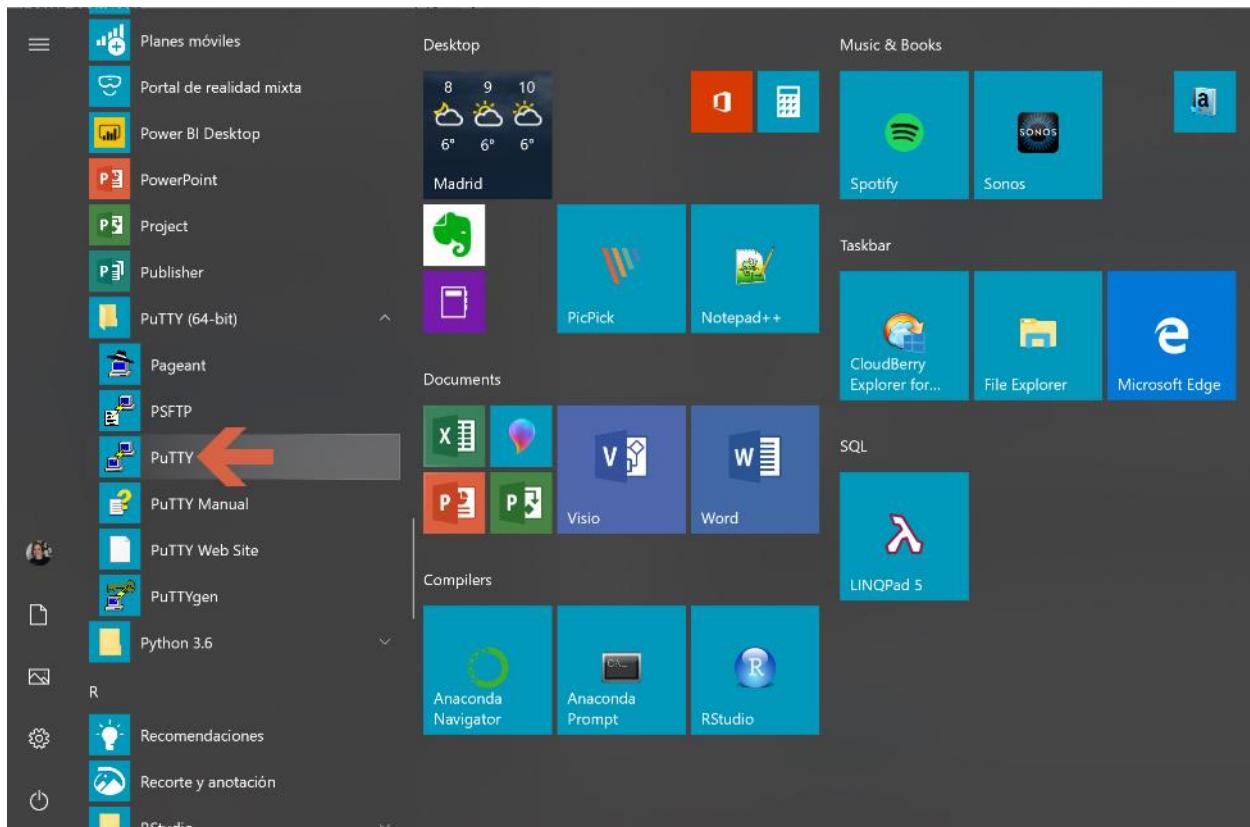


The screenshot shows the Azure portal interface for a virtual machine named 'quijote-vm0'. The 'Overview' tab is selected. Key details shown include:

- Resource group:** Teradata
- Status:** Running
- Location:** France Central
- Subscription:** Consumo interno de Microsoft Azure
- Subscription ID:** 53d1ee67-5e22-4dbc-976d-577a64136087
- Computer name:** quijote-vm0
- Operating system:** Linux
- Size:** Standard D15 v2 (20 vcpus, 140 GB memory)
- Public IP address:** 40.89.157.138
- Virtual network/subnet:** vnet-teradata/vmsubnet
- DNS name:** quijote.francecentral.cloudapp.azure.com

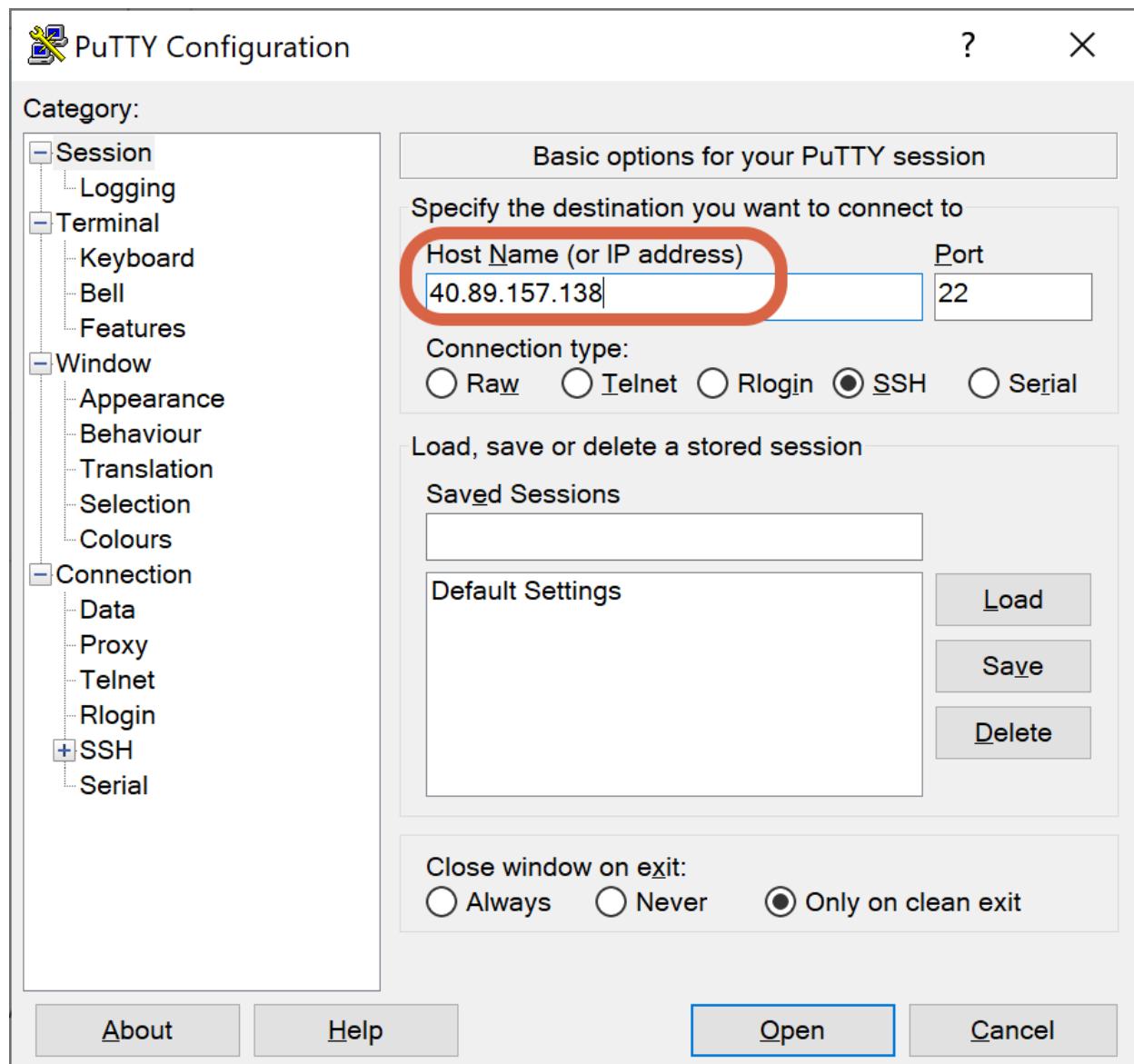
Now we connect to the node operating system. To do it, we are going to use [PuTTY](#), which is used to secure remote shell access to a Linux system. If you don't have PuTTY installed in your computer, you can download it from [here](#).

We open PuTTY.



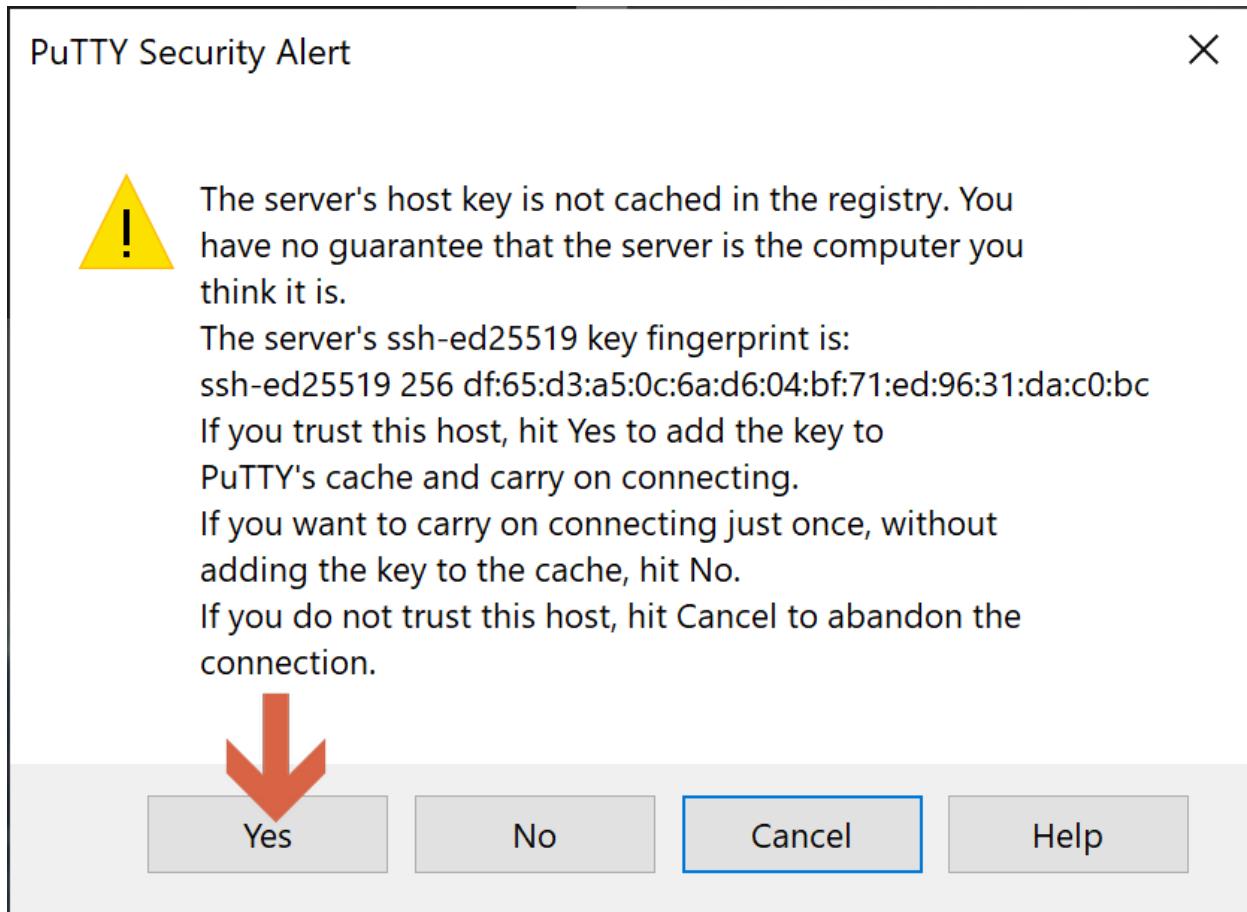
Provide the Teradata node (qui jote-vm0) IP address or DNS name, and click "Open".





If the PuTTY Security Alert window appears, click on “Yes”.





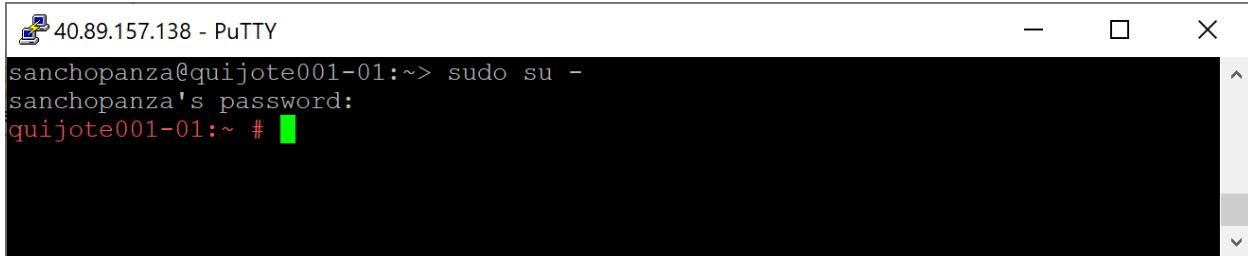
When prompted, provide with the OS user and password which you set up in screen 1, section 2.

A screenshot of a PuTTY terminal window titled "40.89.157.138 - PuTTY". The window displays the following text:

```
login as: sanchopanza
Using keyboard-interactive authentication.
Password: [REDACTED]
```

Switch to the root user environment: `sudo su -`

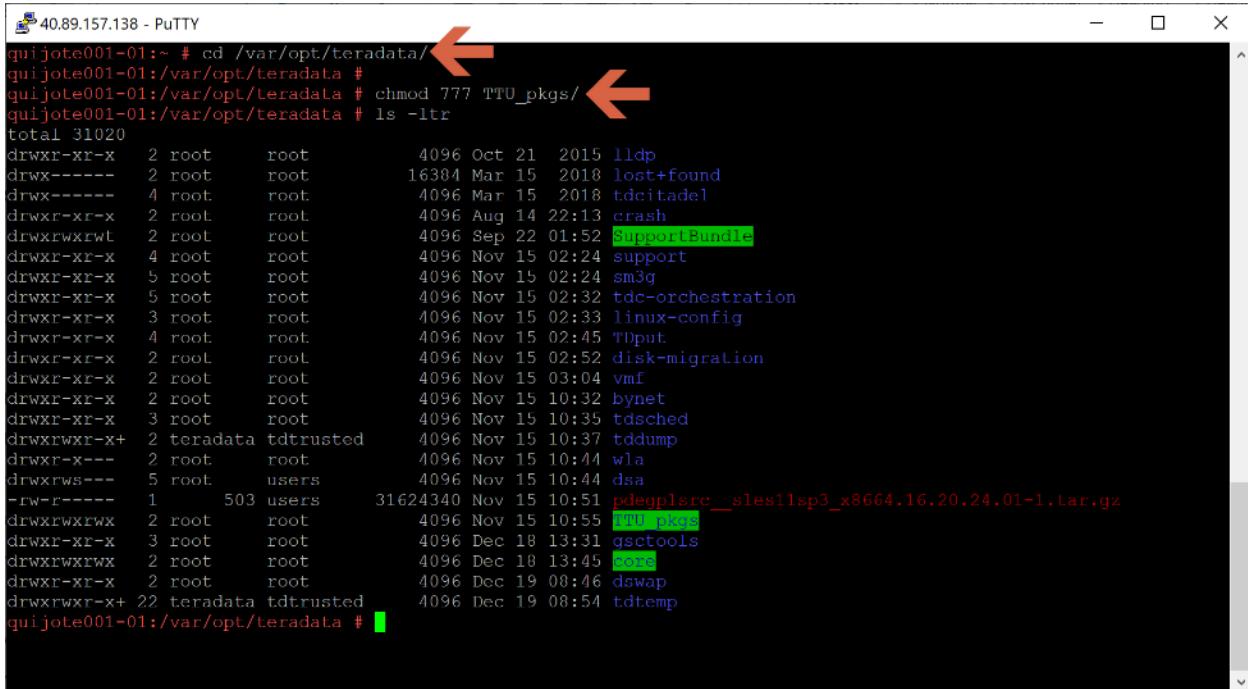




```
40.89.157.138 - PuTTY
sanchopanza@quijote001-01:~> sudo su -
sanchopanza's password:
quijote001-01:~ #
```

Go to the directory where the TTUs (Teradata clients) are: `cd /var/opt/teradata/`.

We grant permissions to all users to access the TTUs: `chmod 777 TTU_pkgs`

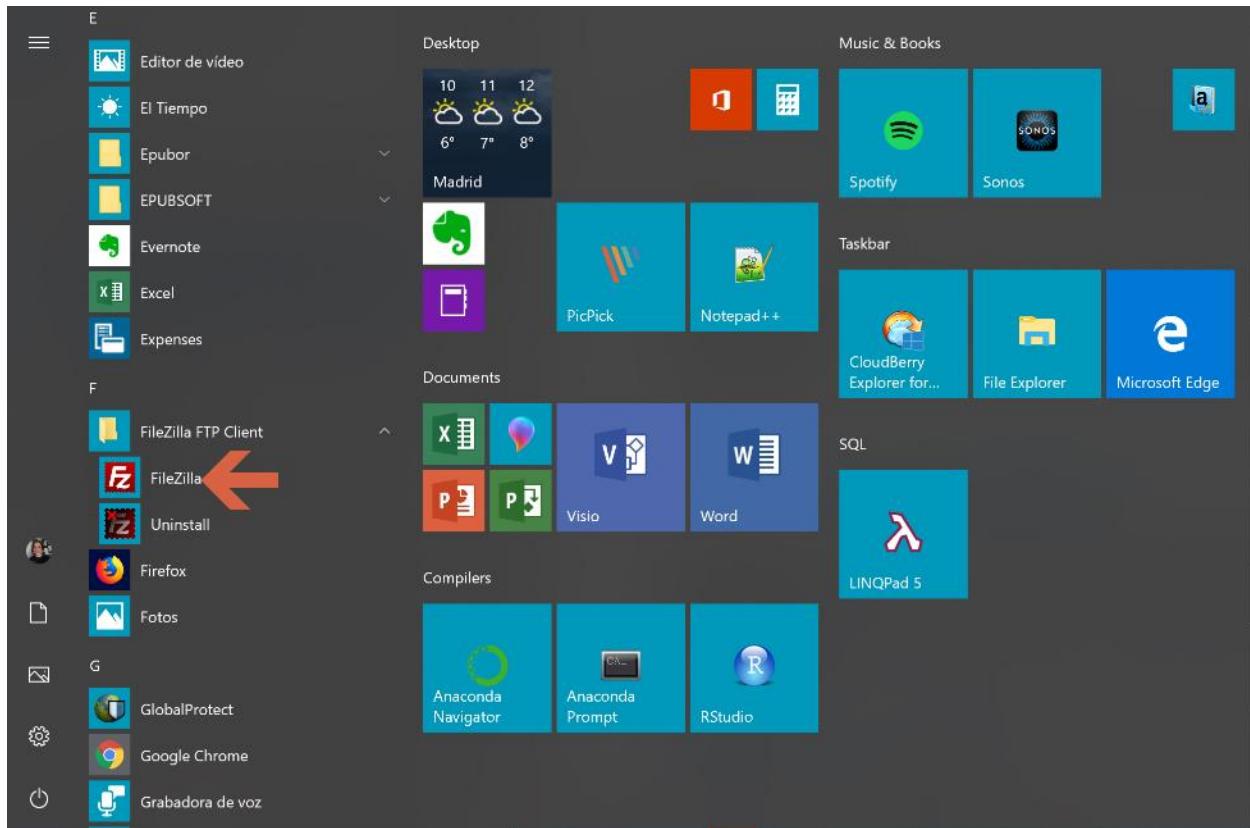


```
40.89.157.138 - PuTTY
qui jote001-01:~ # cd /var/opt/teradata/ ←
qui jote001-01:/var/opt/teradata # ←
qui jote001-01:/var/opt/teradata # chmod 777 TTU_pkgs/ ←
qui jote001-01:/var/opt/teradata # ls -ltr
total 31020
drwxr-xr-x  2 root      root          4096 Oct 21  2015 lldp
drwx-----  2 root      root         16384 Mar 15  2018 lost+found
drwx-----  4 root      root          4096 Mar 15  2018 tdcitadel
drwxr-xr-x  2 root      root          4096 Aug 14 22:13 crash
drwxrwxrwt  2 root      root          4096 Sep 22 01:52 SupportBundle
drwxr-xr-x  4 root      root          4096 Nov 15 02:24 support
drwxr-xr-x  5 root      root          4096 Nov 15 02:24 sm3g
drwxr-xr-x  5 root      root          4096 Nov 15 02:32 tdc-orchestration
drwxr-xr-x  3 root      root          4096 Nov 15 02:33 linux-config
drwxr-xr-x  4 root      root          4096 Nov 15 02:45 TDput
drwxr-xr-x  2 root      root          4096 Nov 15 02:52 disk-migration
drwxr-xr-x  2 root      root          4096 Nov 15 03:04 vmf
drwxr-xr-x  2 root      root          4096 Nov 15 10:32 bynet
drwxr-xr-x  3 root      root          4096 Nov 15 10:35 tdsched
drwxrwxr-x+ 2 teradata tdtrusted    4096 Nov 15 10:37 tddump
drwxr-xr-x-- 2 root      root          4096 Nov 15 10:44 wla
drwxrws---  5 root      users         4096 Nov 15 10:44 dsa
-rw-r----  1      503 users     31624340 Nov 15 10:51 pdeqlsrc_sles11sp3_x8664.16.20.24.01-1.tar.gz
drwxrwxrwx  2 root      root          4096 Nov 15 10:55 TTU_pkgs
drwxr-xr-x  3 root      root          4096 Dec 18 13:31 gsctools
drwxrwxrwx  2 root      root          4096 Dec 18 13:45 core
drwxr-xr-x  2 root      root          4096 Dec 19 08:46 dswap
drwxrwxr-x+ 22 teradata tdtrusted   4096 Dec 19 08:54 tdtemp
qui jote001-01:/var/opt/teradata #
```

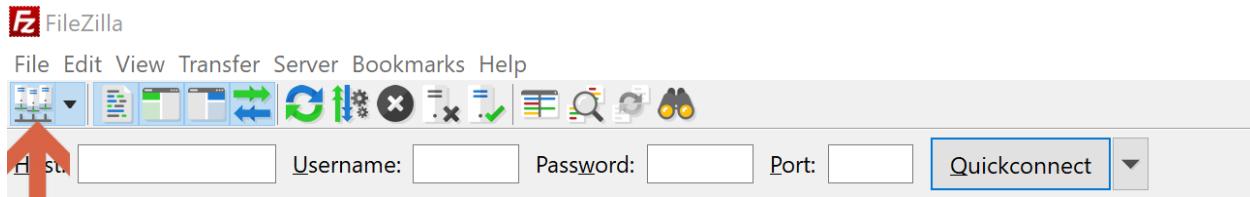
Now we are going to use FileZilla as FTP application to get the TTUs for Windows and download them to our PC. If you need to install it, you can find it [here](#).

Open FileZilla.



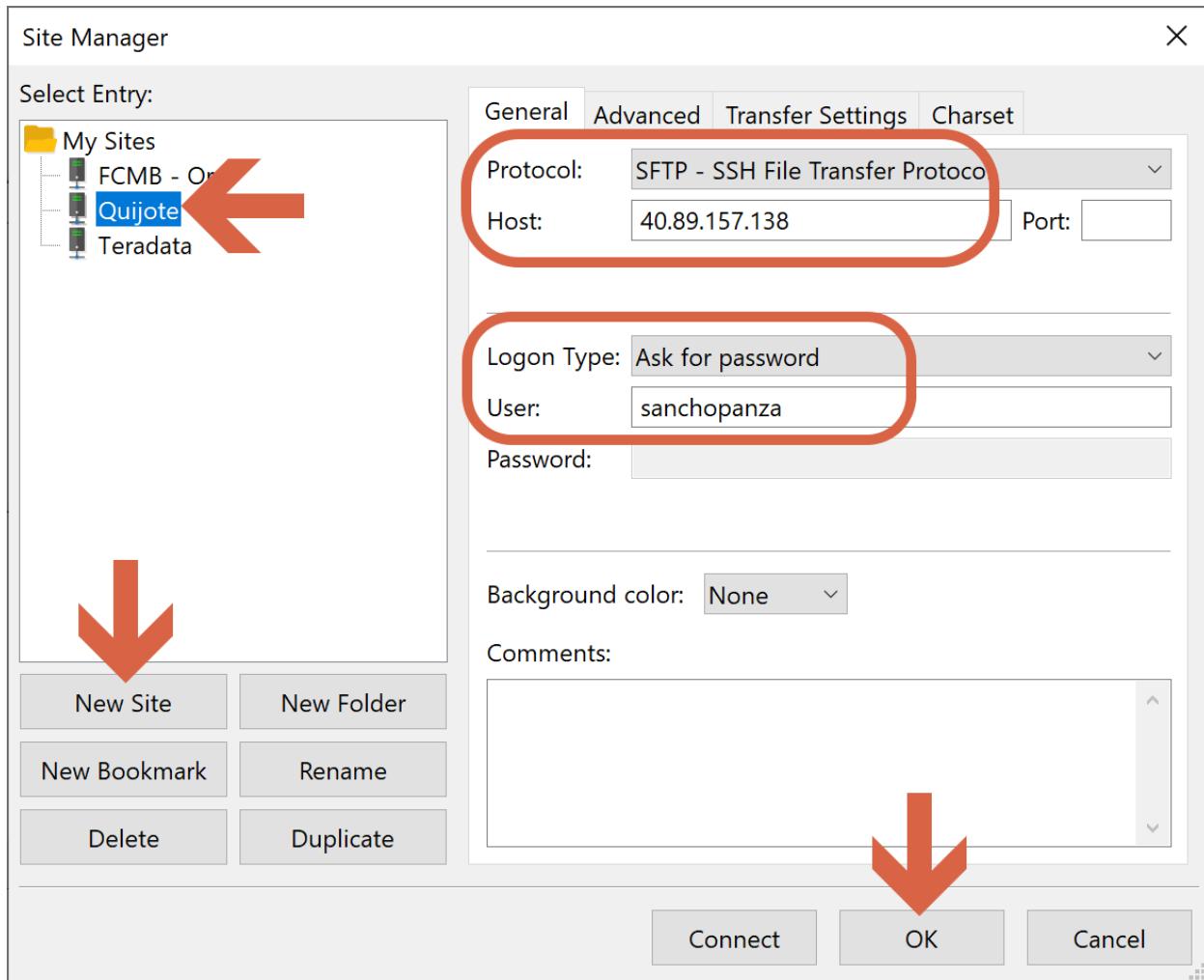


Open the Site Manager in the upper left corner.



Create a new site to connect with SFT protocol, and provide the Teradata Vantage IP address, and the credentials you created in screen 1, section 2.



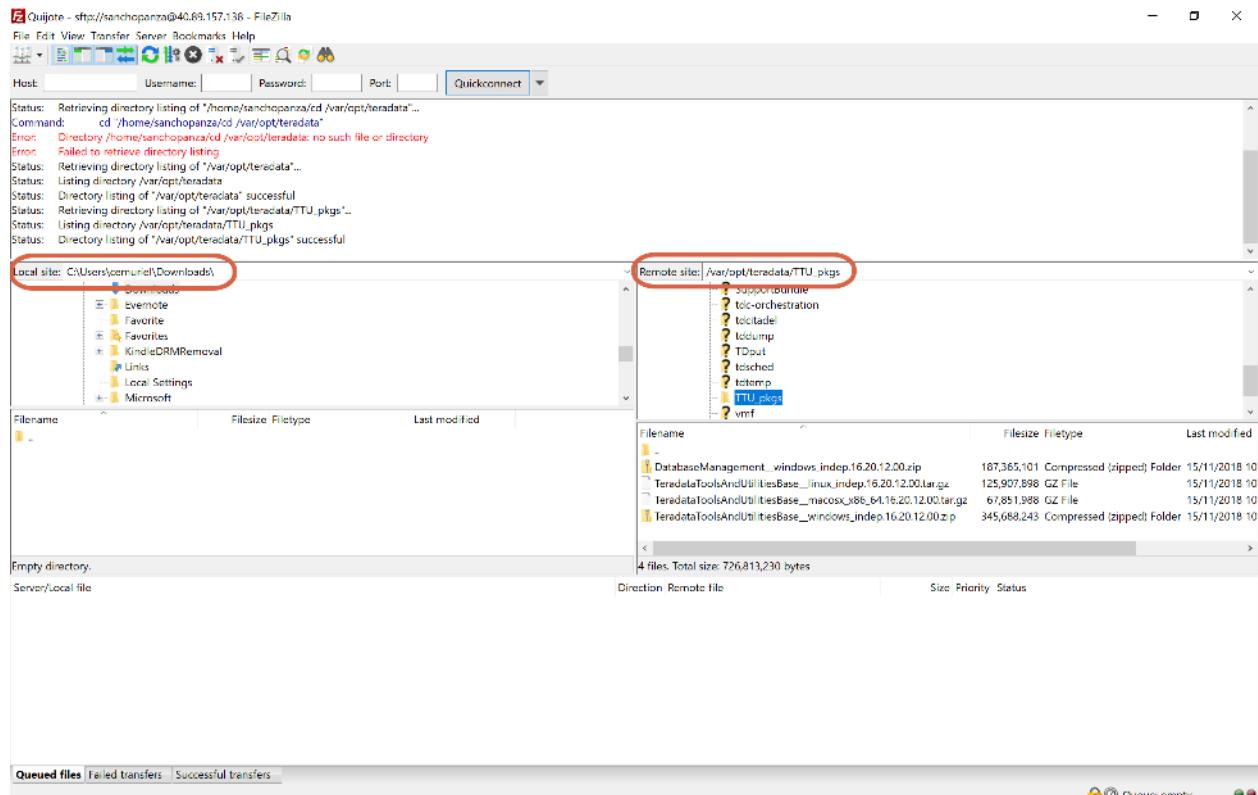


We navigate to the directory in our PC where we want to place the TTUs, and to /var/opt/teradata/TTU_pkgs in the Teradata Vantage node.

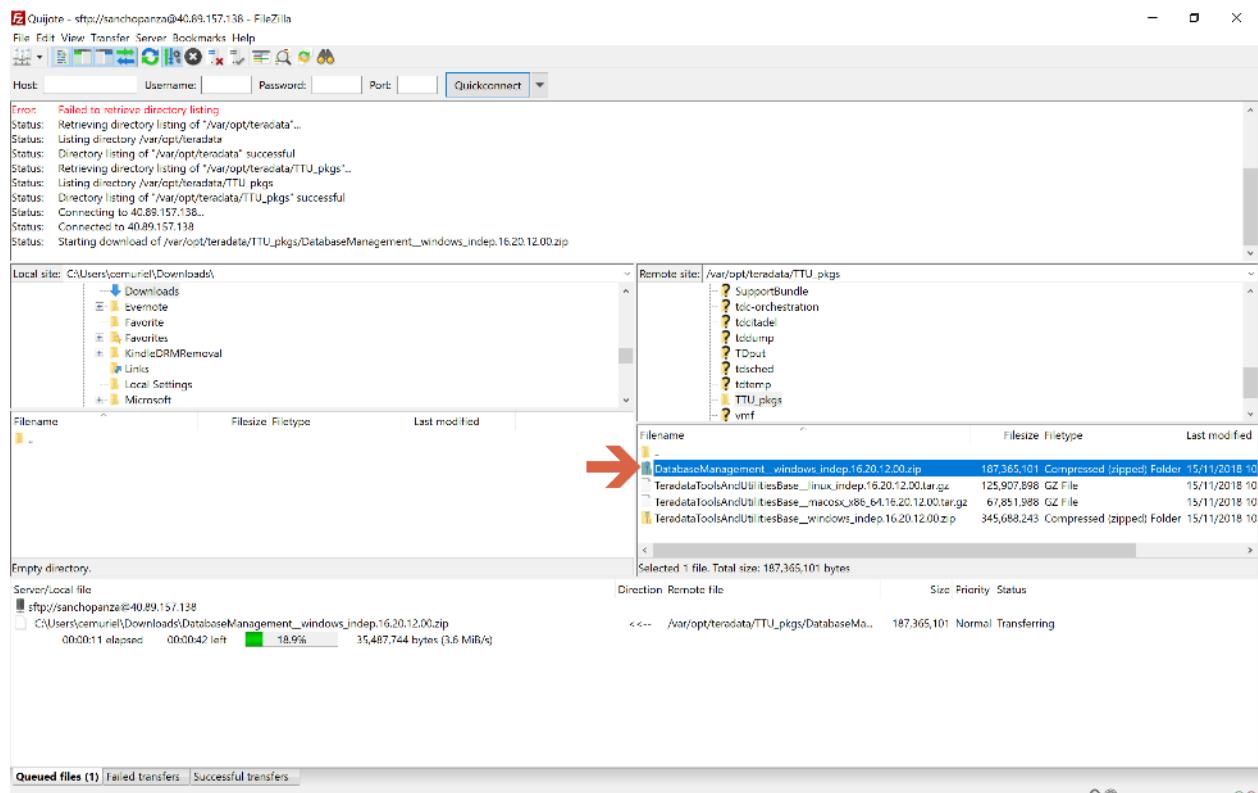


Cookbook to set up a Teradata Virtual Machine in Azure

CELIA MURIEL

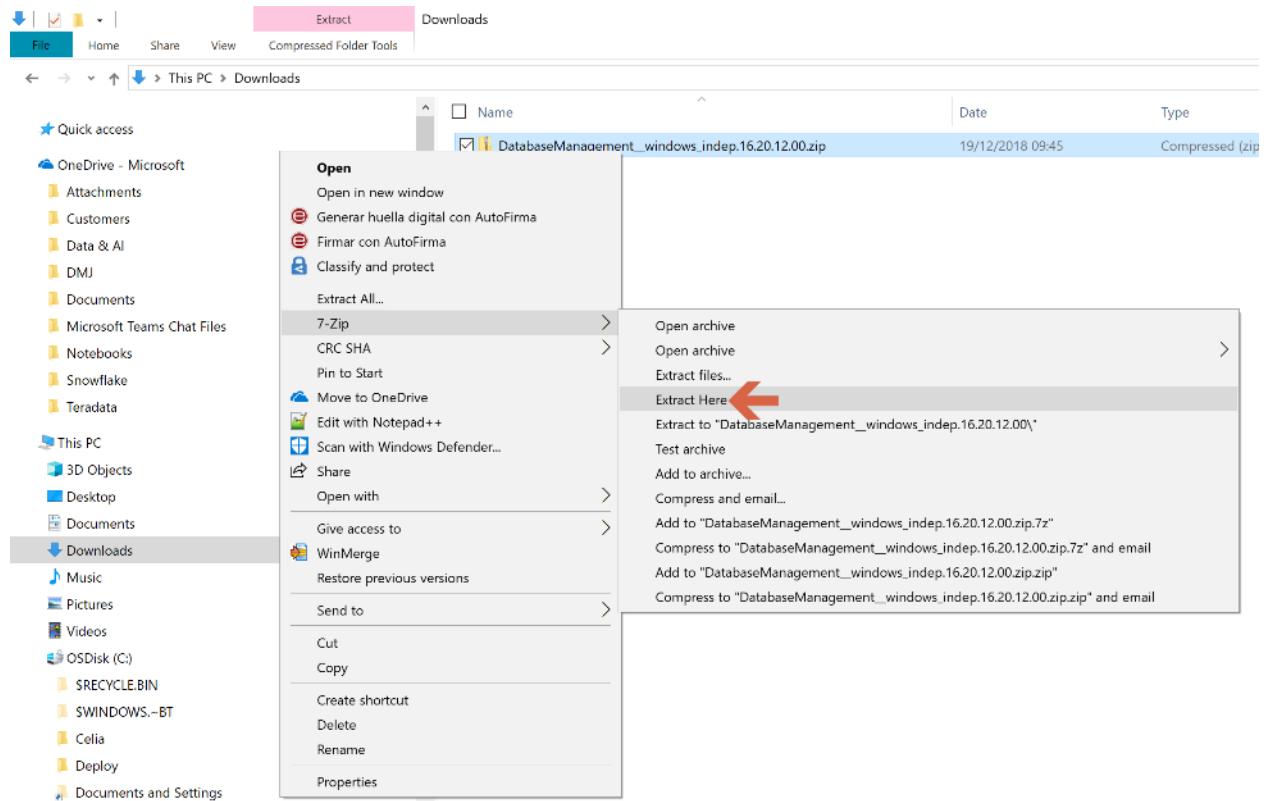


We transfer the ZIP files with the Windows TTUs to our PC.

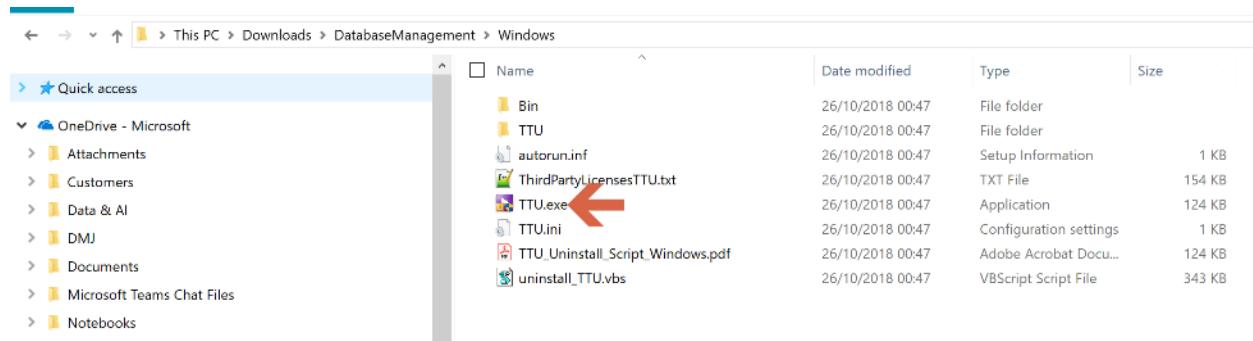


Then, we navigate to the directory in our PC where we downloaded the TTUs. We unzip the file.



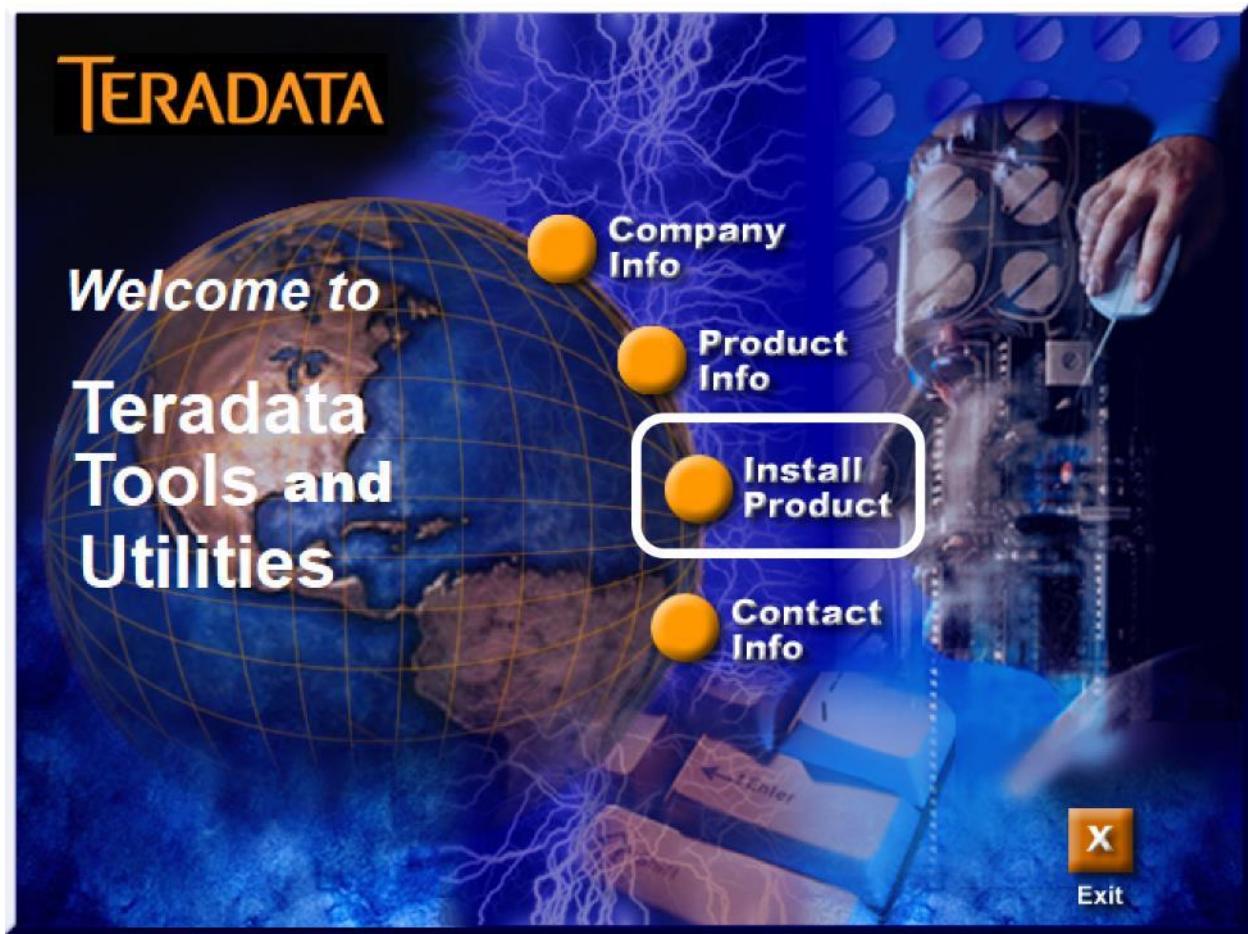


We open the directory “Windows” within the extracted folder, and execute TTU.exe.



Click “Install Product”.





Choose installation language.



 Teradata Tools and Utilities - Database Management 16.20.12 - Installation Wizard

X

Choose Setup Language



Select the language for this installation from the choices below.

English (United States)



Next >

Cancel

InstallShield®





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 I do not accept the terms in the license agreement

Print

< Back

Next >

Cancel

Choose the installation directory.



Destination Folder



Click Next to install to this folder, or click Change to install to a different folder.



Install Teradata Tools and Utilities - Database Management 16.20.12 to:

Change...

C:\Program Files

The selected features will be installed to:

C:\Program Files\Teradata\Client\16.20



InstallShield®

< Back

Next >

Cancel

Select the TTU(s) you want to install. We are going to install BTEQ for Windows only.



Teradata Tools and Utilities - Database Management 16.20.12 - Installation Wizard

X

Select Features



Select the features you want installed or upgraded and unselect the features you want uninstalled. A newer version from the initial release is indicated by an "*".

- ODBC Driver for Teradata *
- Teradata GSS Administration Package
- BTEQ * 
- Teradata Index Wizard
- Teradata Query Scheduler Administrator *
- Teradata Query Scheduler Client
- Teradata Query Scheduler Server
- Teradata System Emulation Tool
- Teradata Workload Analyzer
- Teradata Visual Explain *
- Teradata Wallet *

Uninstall previous versions



InstallShield®

< Back

Install

Cancel



 Teradata Tools and Utilities - Database Management 16.20.12 - Installation Wizard

X

Installing Teradata Tools and Utilities



Database Management 16.20.12



The program features you selected are being installed.

Installing package Shared ICU-32bit

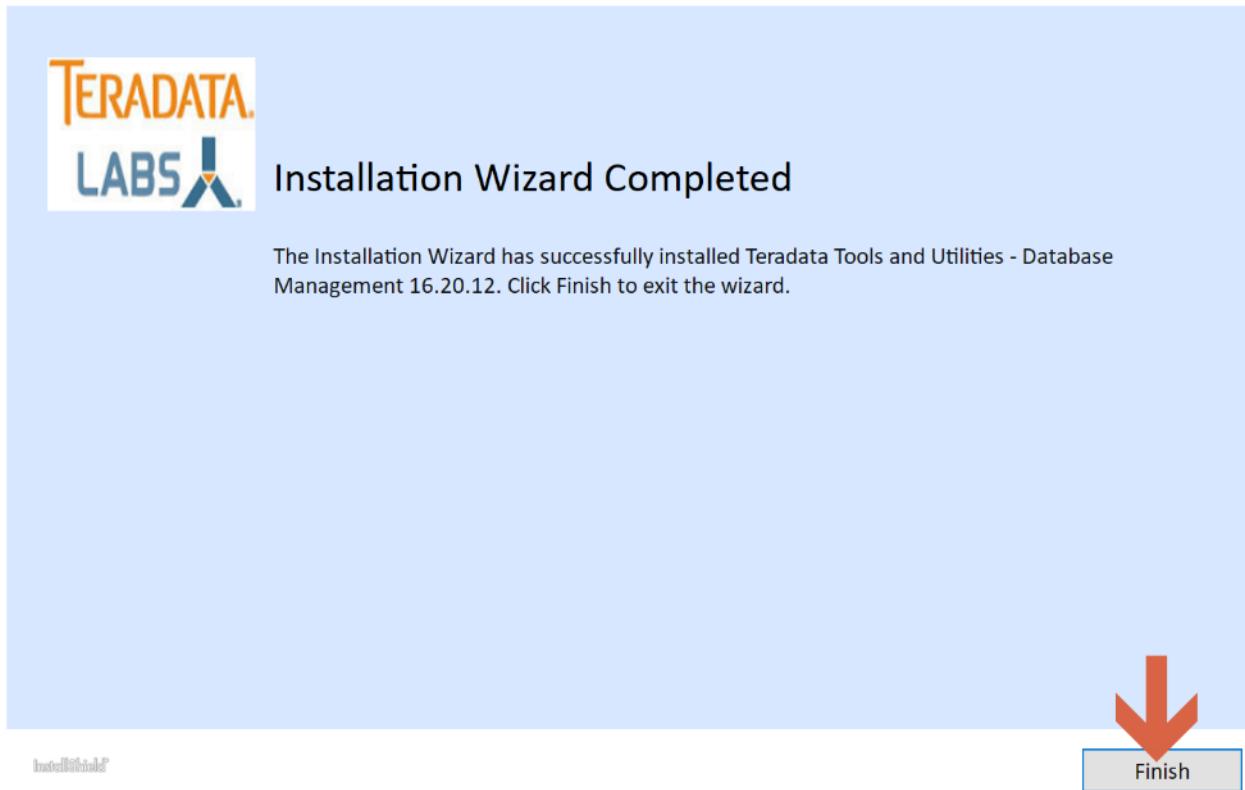
Shared ICU-32bit



InstallShield®

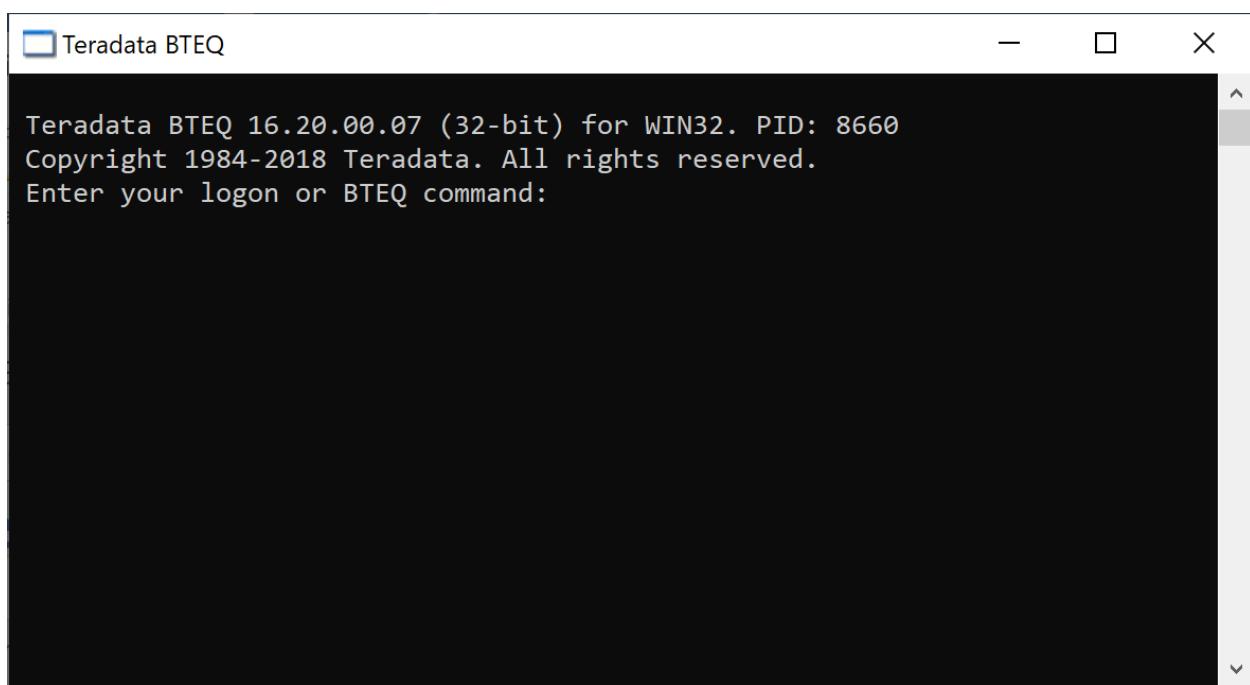
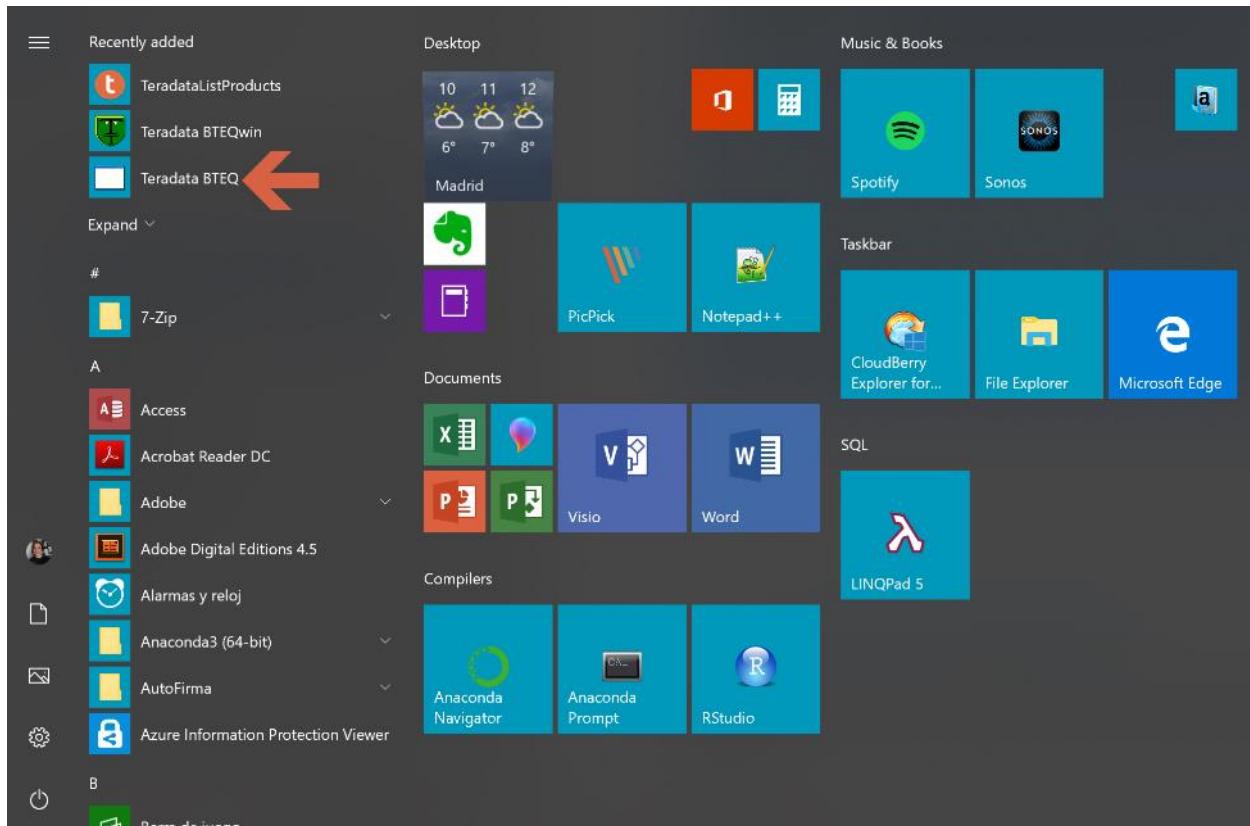
Cancel





We can open the BTEQ to check it is there.





6. Connect to Viewpoint

We go to the Viewpoint virtual machine in the Azure portal and take note of its IP address and DSN name.



Home > Resource groups > Teradata > viewpoint-vm0

viewpoint-vm0
Virtual machine

Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Settings Networking Disks

Resource group (change)
Teradata

Status
Running

Location
France Central

Subscription (change)
Consumo interno de Microsoft Azure

Subscription ID
53d1ee67-5e22-4dbc-976d-577a64136087

Computer name
viewpoint-vm0

Operating system
Linux

Size
Standard DS5 v2 (16 vcpus, 56 GB memory)

Public IP address
40.89.154.158

Virtual network/subnet
vnet-teradata/vmsubnet

DNS name
viewpoint.francecentral.cloudapp.azure.com

We open a browser and we type in the address bar <https://>, and then either the IP address or the DNS name. We are going to use the DNS name in this guide.

New tab

https://viewpoint.francecentral.cloudapp.azure.com

Azure Portal Tutorial

https://viewpoint.francecentral.cloudapp.azure.com

Search the web

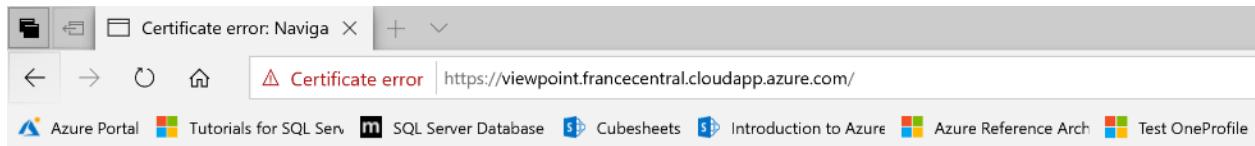
Recent Searches: urbali sul

Top sites

Chronos edX | Online cour...

If you are in Microsoft VPN, and get a navigation error like the one below, just continue to the webpage.





This site is not secure

This might mean that someone's trying to fool you or steal any info you send to the server. You should close this site immediately.

[Go to your Start page](#)

Details

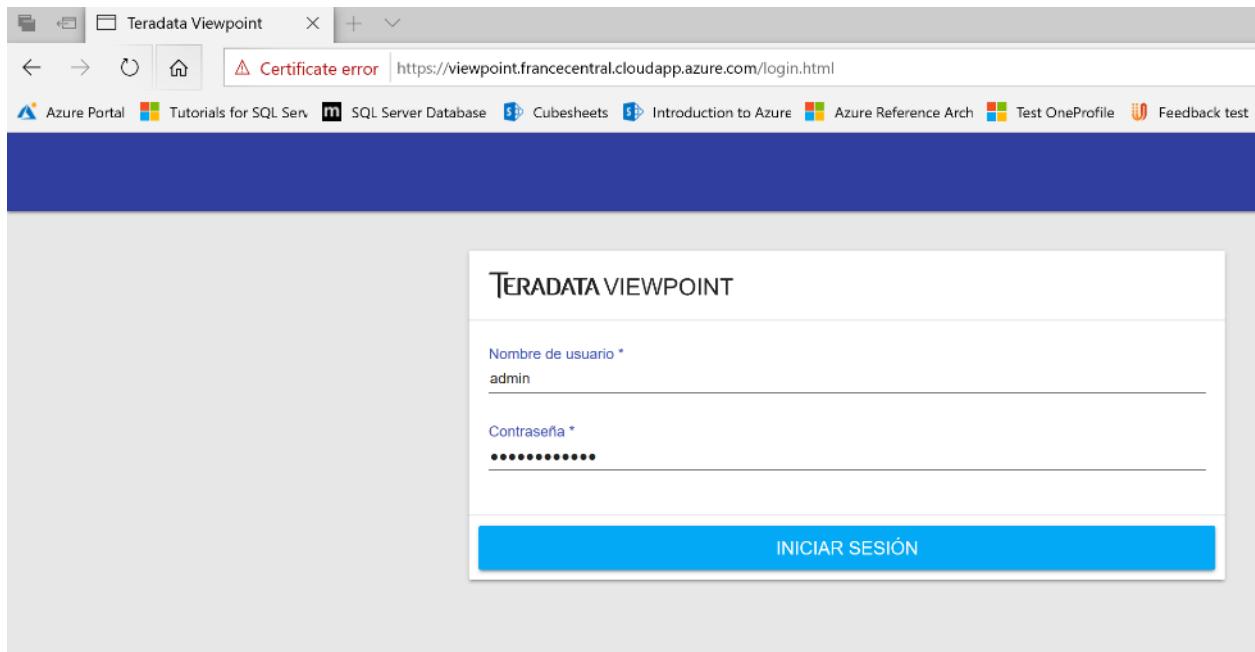
Your PC doesn't trust this website's security certificate.
The hostname in the website's security certificate differs from the website you are trying to visit.

Error Code: DLG_FLAGS_INVALID_CA
DLG_FLAGS_SEC_CERT_CN_INVALID



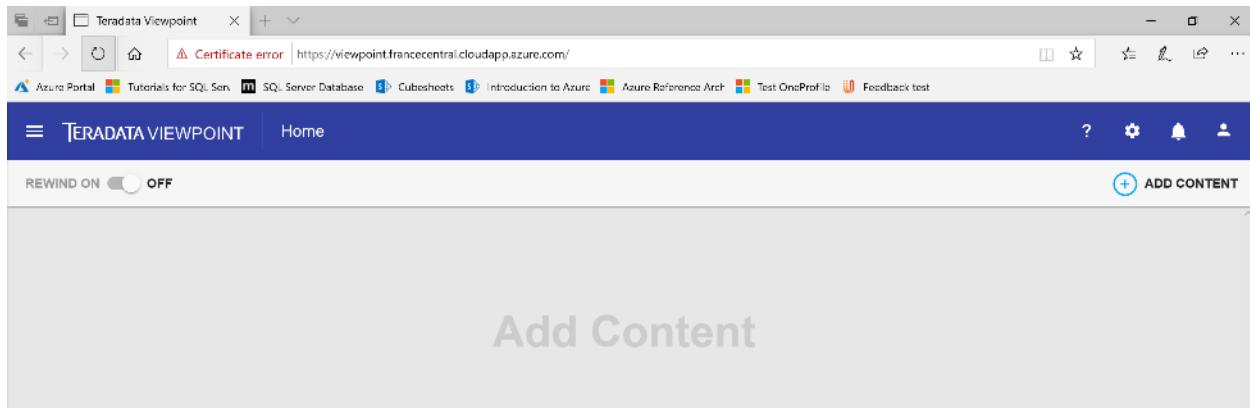
[Go on to the webpage \(Not recommended\)](#)

Logon in Viewpoint with the user admin, and the password you setup in screen 3 (Configure Viewpoint), section 2.

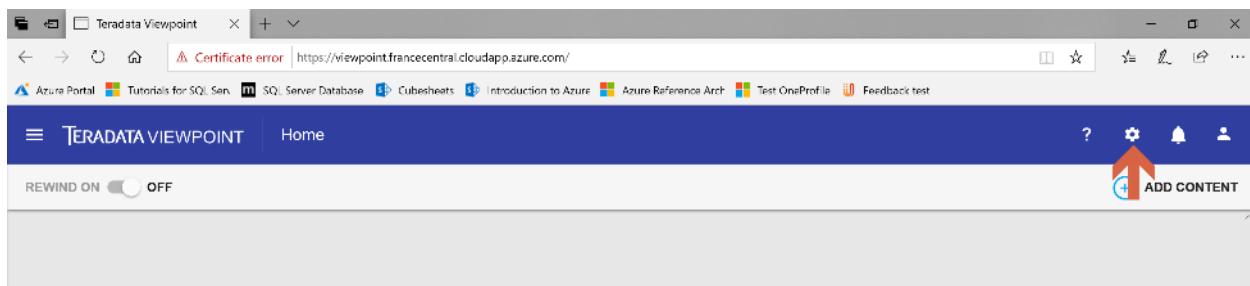


Now you are in.





Click on the Admin menu.



Choose Monitored Systems.

A screenshot of the "TERADATA VIEWPOINT Admin" page under the "Monitored Systems" section. The "Monitored Systems" option is highlighted with a red oval. The page lists several configuration options: Alert Setup, Backup, BAR Setup, Certificates, Data Mover Setup, General, LDAP Servers, Portlet Library, Query Group Setup, Roles Manager, Server Management, Shared Pages, and User Manager. A red arrow points to the "Monitored Systems" link.

Click on the + symbol.



Choose "Add Teradata System".



The screenshot shows the 'Monitored Systems' section of a management interface. At the top, there's a header with a circular icon and the text 'Monitored Systems'. Below it, a sub-header says 'Configure the systems and data collectors that'. A 'Systems' tab is selected, and a blue '+' button is visible. A dropdown menu titled 'Add Teradata System' is open, listing several options: 'Add Teradata Machine Learning Engine', 'Add Hadoop System', 'Add Presto System', 'Add QueryGrid', and 'Add Managed System'. The 'Add Managed System' option is highlighted with a red arrow pointing to it.

We go to the Teradata Vantage virtual machine in the Azure portal and take note of its IP address and DSN name.

The screenshot shows the Azure portal's 'Virtual machines' blade. The navigation bar at the top includes 'Home', 'Resource groups', 'Teradata', and 'quijote-vm0'. On the left, a sidebar lists 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Settings', 'Networking', and 'Disks'. The main content area displays the VM's details under 'Overview': Resource group (Teradata), Status (Running), Location (France Central), Subscription (Consumo interno de Microsoft Azure), Subscription ID (53d1ee67-5e22-4dbc-976d-577a64136087), Computer name (quijote-vm0), Operating system (Linux), Size (Standard D15 v2 (20 vcpus, 140 GB memory)), and Public IP address (40.89.157.7). The 'Public IP address' and 'DNS name' fields are circled in red.

On the Viewpoint portal, we provide with the information to connect to our Teradata instance, including dbc user and password (we setup dbc password in screen 2, section 2). Then we click on "TEST".



Cookbook to set up a Teradata Virtual Machine in Azure

CELIA MURIEL

Monitored Systems Configure the systems and data collectors that provide data to portlets.

Disk usage: 0% | 12 hour change: 0%

General System Details

System Nickname: * quipote Enable system
TDIPID: * 40.89.157.7

Login

Enter login credentials to be used by system tasks (e.g. Data Collectors, Canary Queries, Cleanup).

Name: * tdwm Password: Account String: Authentication: TD2
dbc ***** DEFAULT TEST TEST GRANT

Authentication Options

In addition to the default mechanism, display these options in portlets that require authentication.

LDAP TD2

Character Set

Session: UTF8 Monitor: ASCII JDBC Flag:

Time Zone

The time zone the system uses to log DBQL and ResUsage data.

Time Zone: * (GMT+01:00) Brussels, Copenhagen, Macau

APPLY **RESET**

Provide with the information about your time zone.

Monitored Systems Configure the systems and data collectors that provide data to portlets.

Disk usage: 0% | 12 hour change: 0%

General System Details

LDAP TD2

Character Set

Session: UTF8 Monitor: ASCII JDBC Flag:

Time Zone

The time zone the system uses to log DBQL and ResUsage data.

Time Zone: * (GMT+01:00) Brussels, Copenhagen, Macau

Collectors

Enable data collectors (configure in DATA COLLECTORS) except for:

- Elastic Limit
- Elastic Usage
- Virtual Storage
- Stats Manager (available for 14.10 systems and above)
- Query Log

Enhanced TASM Functions (For SLES 11 systems only)

Enable this option if your Teradata system has license entitlement to TASM

APPLY **RESET**

Click on “APPLY”.



Cookbook to set up a Teradata Virtual Machine in Azure

CELIA MURIEL

Monitored Systems Configure the systems and data collectors that provide data to portlets.

Disk usage: 0% | 12 hour change: 0% ?

Systems + **Setup**

General

Data Collectors
System Health
Canary Queries
Alerts
Monitor Rates
Log Table Cleanup
Cleanup Schedule

General System Details

System Nickname: * Enable system
TDPID: *
Site ID:

Login

Enter login credentials to be used by system tasks (e.g. Data Collectors, Canary Queries, Cleanup).

Name: * Password: Account String: Authentication: TD2
dbq DEFAULT TEST TEST GRANT

Authentication Options

In addition to the default mechanism, display these options in portlets that require authentication.

LDAP
 TD2

Character Set

Session: Monitor: JDBC Flag:

Time Zone

The time zone for the system. This is used for all system tasks and portlets.

Buttons: APPLY (highlighted with a red arrow) | RESET

Click "CLOSE" on the upper right corner.

Teradata Viewpoint Certificate error https://viewpoint.francecentral.cloudapp.azure.com/

Azure Portal Tutorials for SQL Server SQL Server Database Cubesheets Introduction to Azure Azure Reference Arch Test OneProfile Feedback test

TERADATA VIEWPOINT Admin

Select Portlet Monitored Systems SHOW ALL CLOSE (highlighted with a red arrow)

Monitored Systems Configure the systems and data collectors that provide data to portlets

Disk usage: 0% | 12 hour change: 0% ?

Systems + **Setup**

General

Data Collectors
System Health

System Nickname: * Enable system
TDPID: *

Click on Add Content on the upper right corner, you may choose some portlets to monitor the system you just deployed.



Cookbook to set up a Teradata Virtual Machine in Azure

CELIA MURIEL

The screenshot shows the 'TERADATA VIEWPOINT' interface with the 'Home' tab selected. On the left, there's a search bar and an 'Add Content' button. The main area is divided into several sections: 'System Overview', 'Session Management', 'Trends', 'Workload Management', 'Utilities', and 'Applications'. Each section contains a list of management tools with small icons and brief descriptions.

- System Overview:** Alert Viewer, Canary Response Times, Elastic Performance, Hadoop Services, Productivity, Service Health, Space Usage, System Health, Today's Statistics.
- Session Management:** Application Queries, Completed Queries, Lock Viewer, My Queries, Query Groups, Query Log, Query Monitor, Query Spotlight.
- Trends:** Metric Heatmap, Metrics Analysis.
- Workload Management:** Workload Designer, Workload Health, Workload Monitor.
- Utilities:** Maintenance Window.
- Applications:** BAR Operations, Data Mover, MAPS Manager, Performance Data Collection, QueryGrid, Stats Manager, Unity Director, Unity Director Setup.

We choose Query Monitor portlet and click the “Add” button.

This screenshot is similar to the previous one, showing the 'Add Content' screen. The 'Query Monitor' portlet under the 'Session Management' section is highlighted with a red circle. The 'Add' button at the top right is also circled in red.

Now you can see the queries which run in Teradata Vantage.



The screenshot shows the 'Query Monitor' section of the Teradata Viewpoint interface. The top navigation bar includes links like 'Azure Portal', 'Tutorials for SQL Server', 'SQL Server Database', 'Cubesheets', 'Introduction to Azure', 'Azure Reference Arch', 'Test OneProfile', and 'Feedback test'. The main content area has a blue header 'TERADATA VIEWPOINT' and a sub-header 'Home'. Below this is a search bar with 'REWIND ON OFF' and an 'ADD CONTENT' button. The central part of the screen is the 'Query Monitor' table, which has columns for SESSION ID, S, ACPU, AIO, SNAPSHOT, PJI, DURATION, USERNAME, ACCOUNT, and CPU USE. All values in the first row are zero. A message at the bottom left says 'No Data Available'. At the bottom right, it says '0 rows total'.

You can start using Viewpoint. If you need further instructions, you can find the manual [here](#).

7. Stop and deallocate resources when you don't use the system

Teradata Vantage

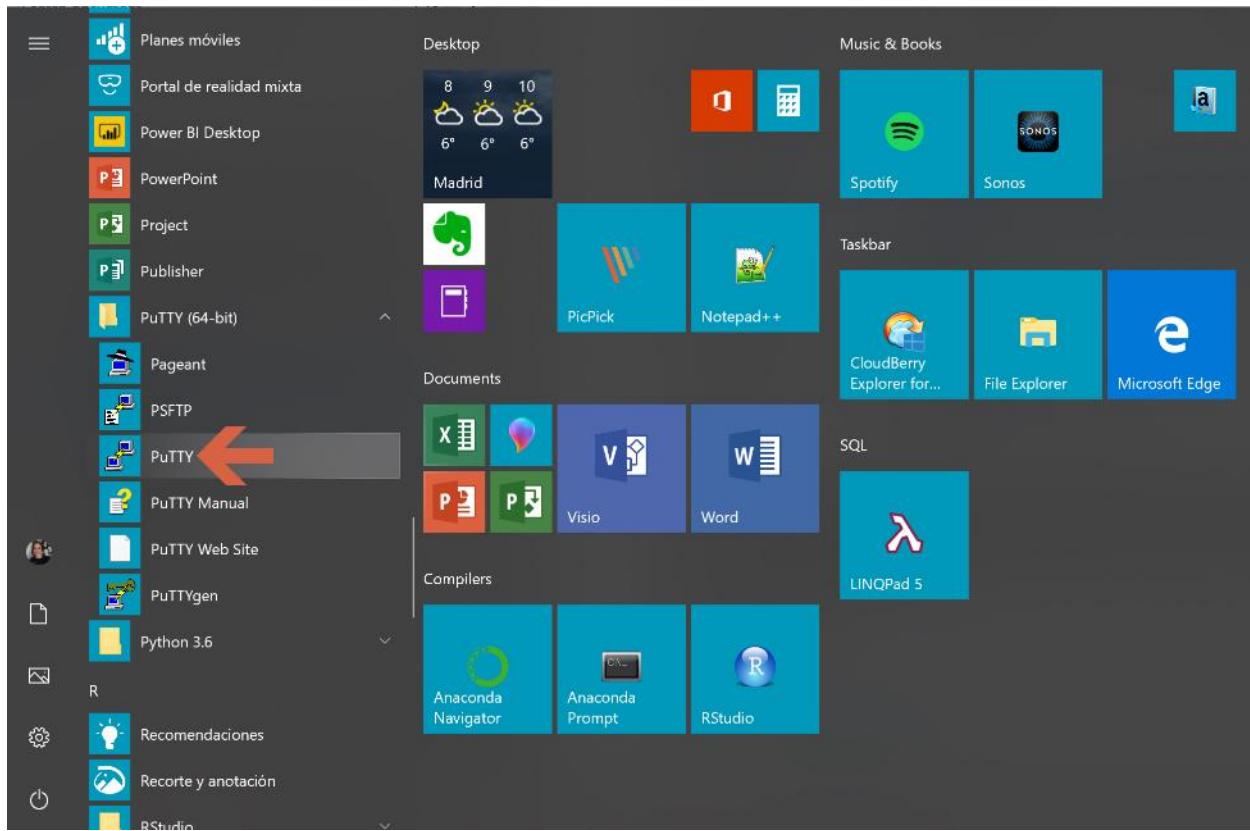
We go to Teradata Vantage virtual machine in the Azure portal and take note of the IP and DNS name.

The screenshot shows the 'Overview' tab for the 'quiijote-vm0' virtual machine in the Azure portal. The left sidebar lists options: Home, Resource groups, Teradata, quiijote-vm0, Search (Ctrl+), Connect, Start, Restart, Stop, Capture, Delete, Refresh, Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Disks, and Size. The main content area shows the VM's details: Advisor (1 of 1): Enable virtual machine backup to protect your data from corruption and accidental deletion. Resource group: Teradata; Computer name: quiijote-vm0. Status: Running; Operating system: Linux. Location: France Central; Size: Standard D15 v2 (20 vcpus, 140 GB memory). Subscription: Consumo interno de Microsoft Azure; Public IP address: 40.89.157.7. Subscription ID: 53d1ee67-5e22-4dbc-976d-577a64136087; Virtual network/subnet: vnet-teradata/vmsubnet. DNS name: quiijote.francecentral.cloudapp.azure.com.

Now we connect to the node operating system. To do it, we are going to use [PuTTY](#), which is used to secure remote shell access to a Linux system. If you don't have PuTTY installed on your computer, you can download it from [here](#).

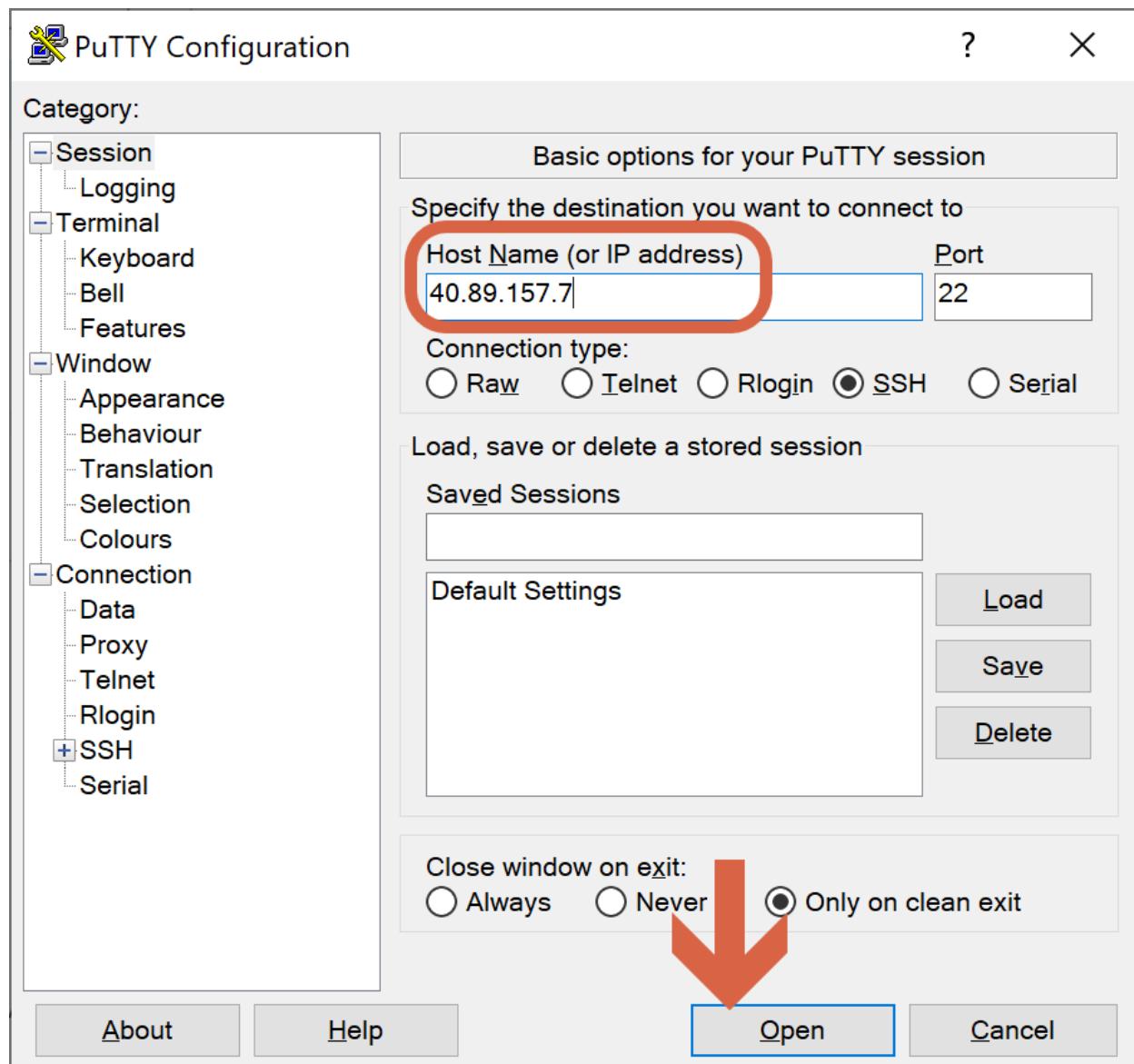
We open PuTTY.





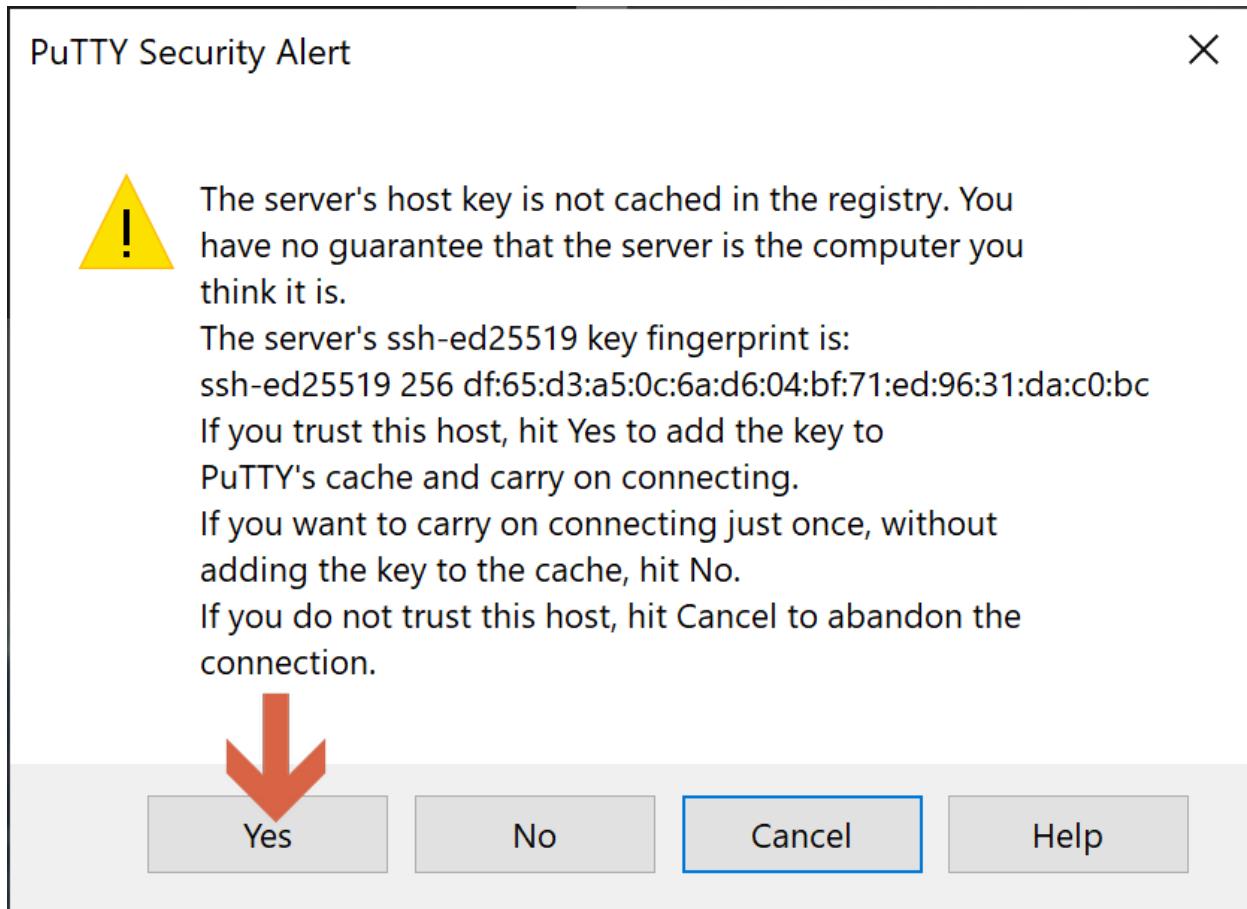
Provide the Teradata node (quijote-vm0) IP address or DNS name, and click “Open”.





If the PuTTY Security Alert window appears, click on “Yes”.





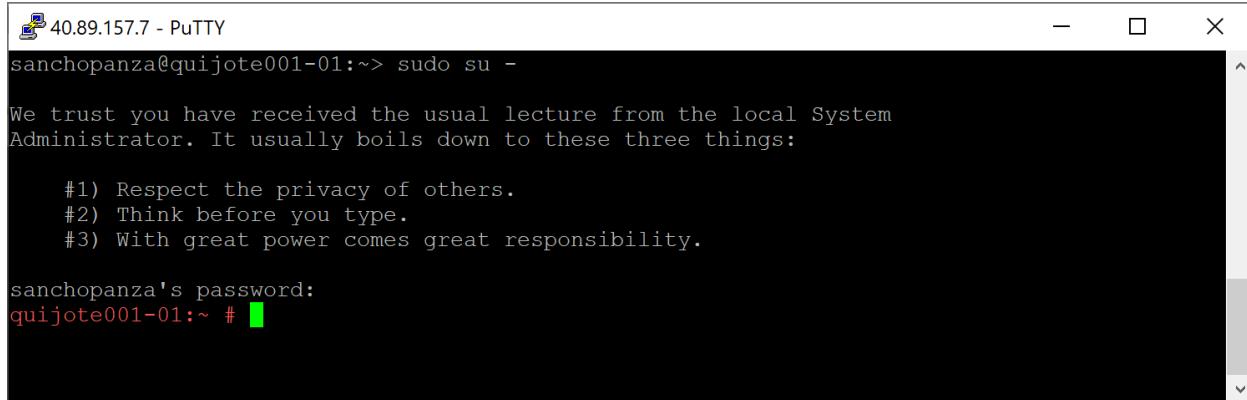
When prompted, provide with the OS user and password which you setup in screen 1, section 2.

A screenshot of a PuTTY terminal window titled "40.89.157.7 - PuTTY". The window displays the following text:

```
login as: sanchopanza
Using keyboard-interactive authentication.
Password: [REDACTED]
```

Switch to the root user environment: `sudo su -`

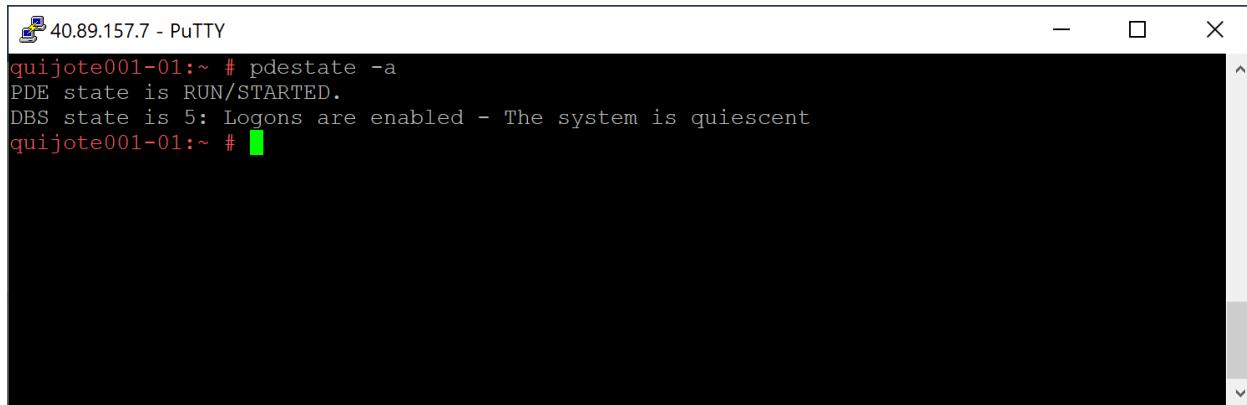




```
40.89.157.7 - PuTTY
sanchopanza@quiote001-01:~> sudo su -
We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:
#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

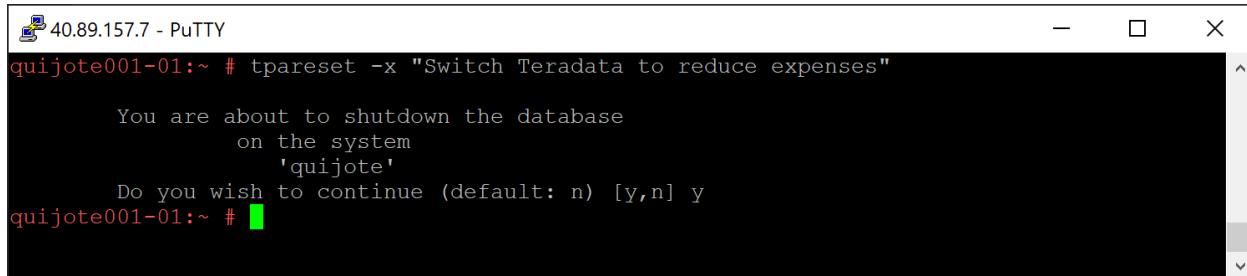
sanchopanza's password:
quiote001-01:~ #
```

Check the status of the database: *pdestate -a*



```
40.89.157.7 - PuTTY
quiote001-01:~ # pdestate -a
PDE state is RUN/STARTED.
DBS state is 5: Logons are enabled - The system is quiescent
quiote001-01:~ #
```

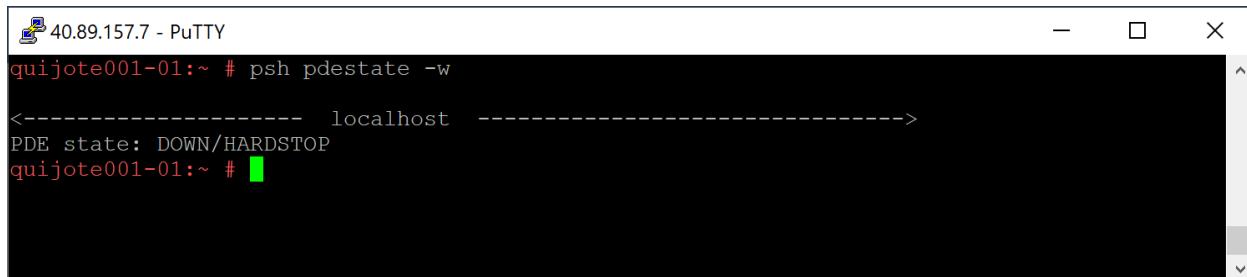
Stop the database: *tpareset -x "Switch Teradata to reduce expenses"*. Putting the database in this state may take several minutes.



```
40.89.157.7 - PuTTY
quiote001-01:~ # tpareset -x "Switch Teradata to reduce expenses"

You are about to shutdown the database
on the system
'quiote'
Do you wish to continue (default: n) [y,n] y
quiote001-01:~ #
```

Wait for the database to shut down, and check pdestate is hardstop: *psh pdestate -w*.



```
40.89.157.7 - PuTTY
quiote001-01:~ # psh pdestate -w
<----- localhost ----->
PDE state: DOWN/HARDSTOP
quiote001-01:~ #
```

Now you can exit the PuTTY session: *exit*.



```
40.89.157.7 - PuTTY
quiijote001-01:~ # exit
logout
sanchopanza@quiijote001-01:~> exit
```

From the Azure portal, stop the virtual machines associated with Teradata Vantage.

quiijote-vm0

Overview

Resource group (change) Teradata	Computer name quiijote-vm0
Status Running	Operating system Linux
Location France Central	Size Standard D15 v2 (20 vcpus, 140 GB memory)
Subscription (change) Consumo interno de Microsoft Azure	Public IP address 40.89.157.7
Subscription ID 53d1ee67-5e22-4dbc-976d-577a64136087	Virtual network/subnet vnet-teradata/vmsubnet
	DNS name quiijote.francecentral.cloudapp.azure.com

quiijote-vm0

Stop this virtual machine

Do you want to stop 'quiijote-vm0'?

Yes **No**

Location France Central	Size Standard D15 v2 (20 vcpus, 140 GB memory)
Subscription (change) Consumo interno de Microsoft Azure	Public IP address 40.89.157.7
Subscription ID 53d1ee67-5e22-4dbc-976d-577a64136087	Virtual network/subnet vnet-teradata/vmsubnet
	DNS name quiijote.francecentral.cloudapp.azure.com

Viewpoint

We go to Viewpoint virtual machine in the Azure portal and take note of the IP and DNS name.



Home > Resource groups > Teradata > viewpoint-vm0

viewpoint-vm0
Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop Capture Delete Refresh

Overview

Resource group (change)
Teradata

Status
Running

Location
France Central

Subscription (change)
Consumo interno de Microsoft Azure

Subscription ID
53d1ee67-5e22-4dbc-976d-577a64136087

Computer name
viewpoint-vm0

Operating system
Linux

Size
Standard DS5 v2 (16 vcpus, 56 GB memory)

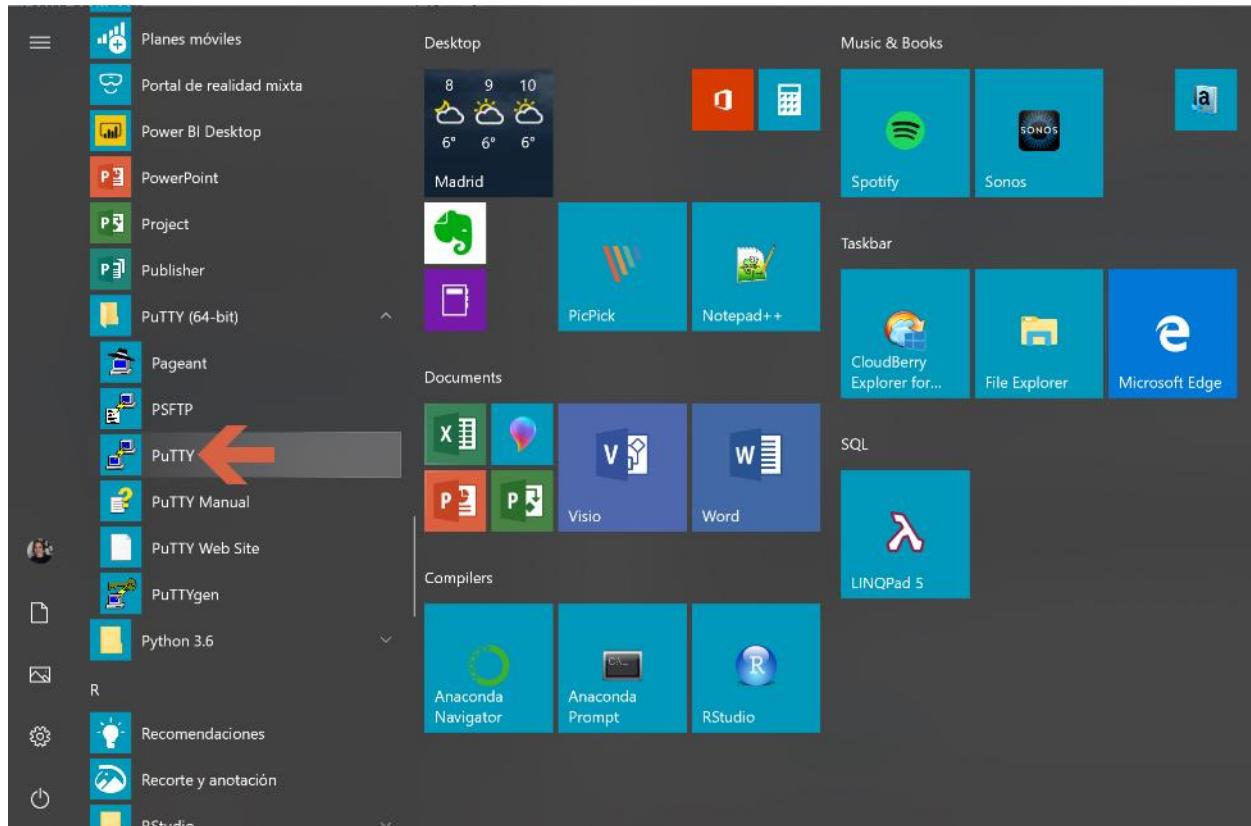
Public IP address
40.89.154.158

Virtual network/subnet
vnet-teradata/vmsubnet

DNS name
viewpoint.francecentral.cloudapp.azure.com

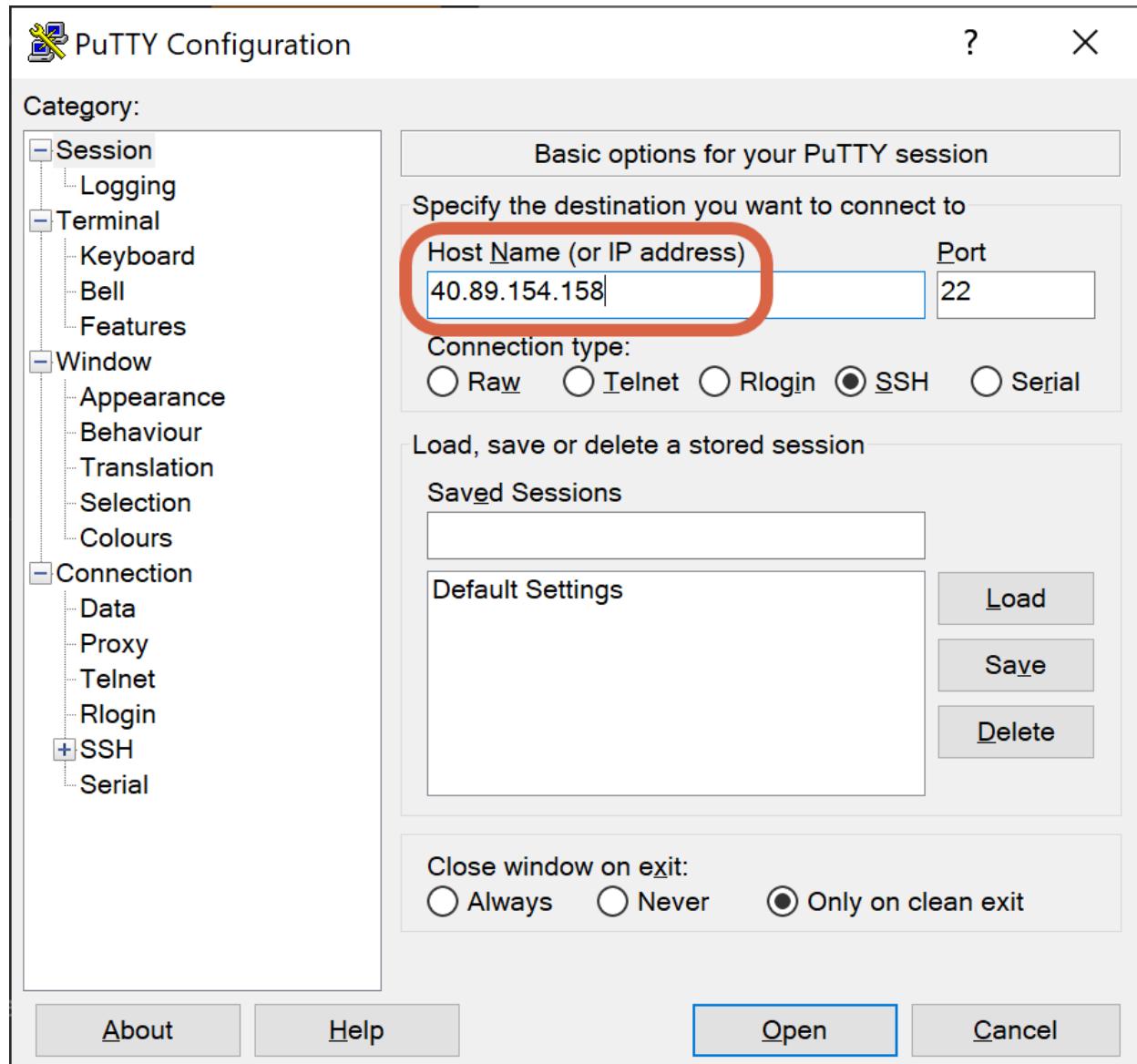
Now we connect to the node operating system. To do it, we are going to use [PuTTY](#), which is used to secure remote shell access to a Linux system. If you don't have PuTTY installed in your computer, you can download it from [here](#).

We open PuTTY.



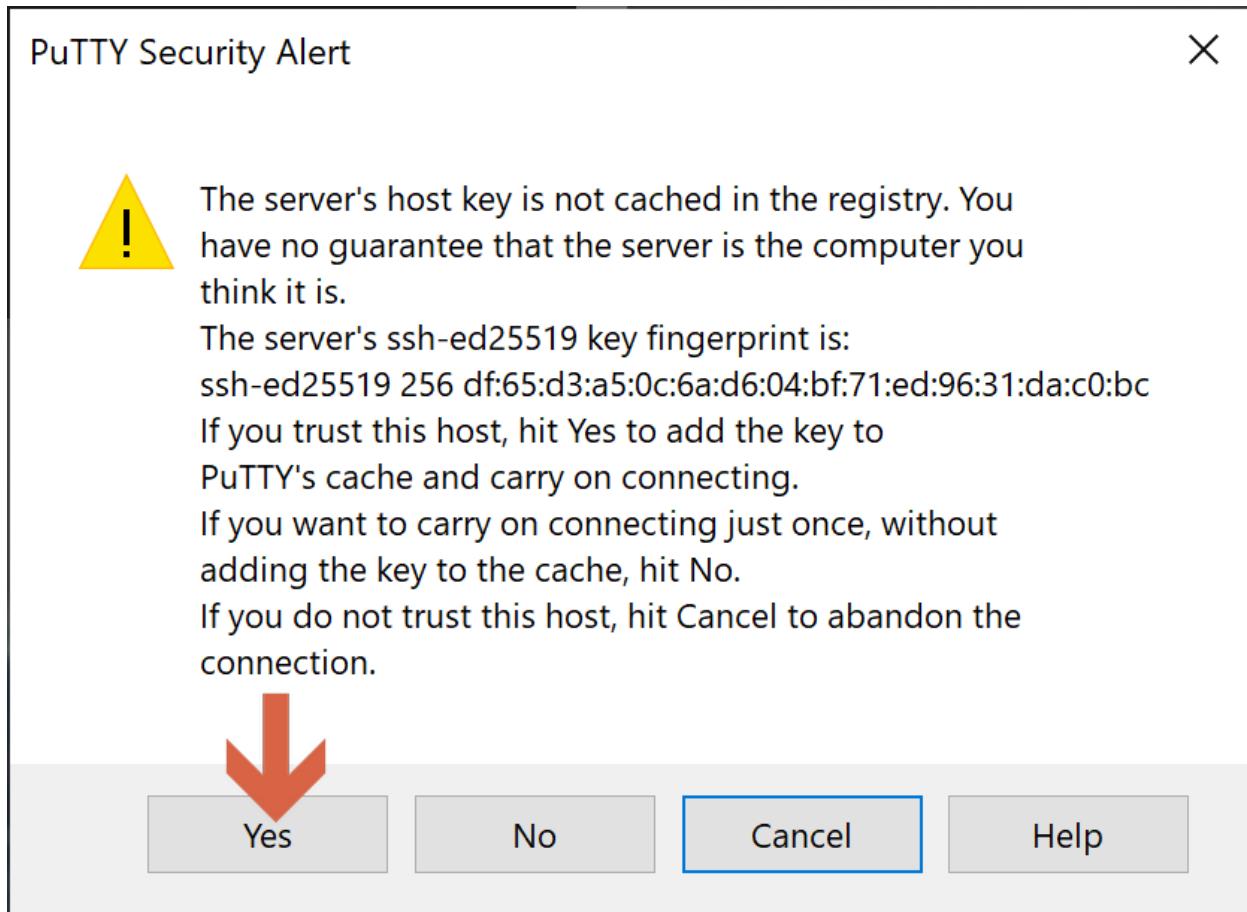
Provide the Viewpoint node (viewpoint-vm0) IP address or DNS name, and click "Open".





If the PuTTY Security Alert window appears, click on “Yes”.





When prompted, provide with the OS user and password which you setup in screen 1, section 2.

```
40.89.154.158 - PuTTY
login as: sanchopanza
Using keyboard-interactive authentication.
Password:
sanchopanza@viewpoint-vm0:~>
```

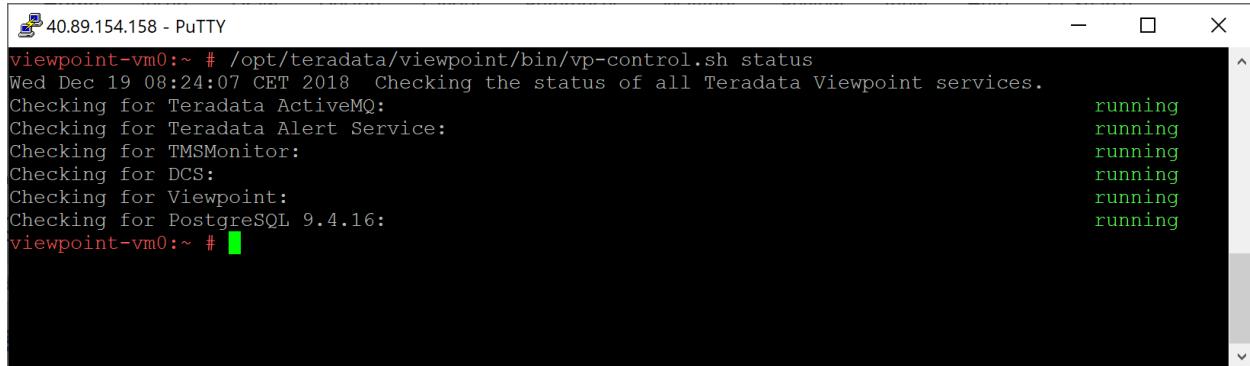
Switch to the root user environment: `sudo su -`

```
40.89.154.158 - PuTTY
sanchopanza@viewpoint-vm0:~> sudo su -
We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:
    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

sanchopanza's password:
viewpoint-vm0:~ #
```



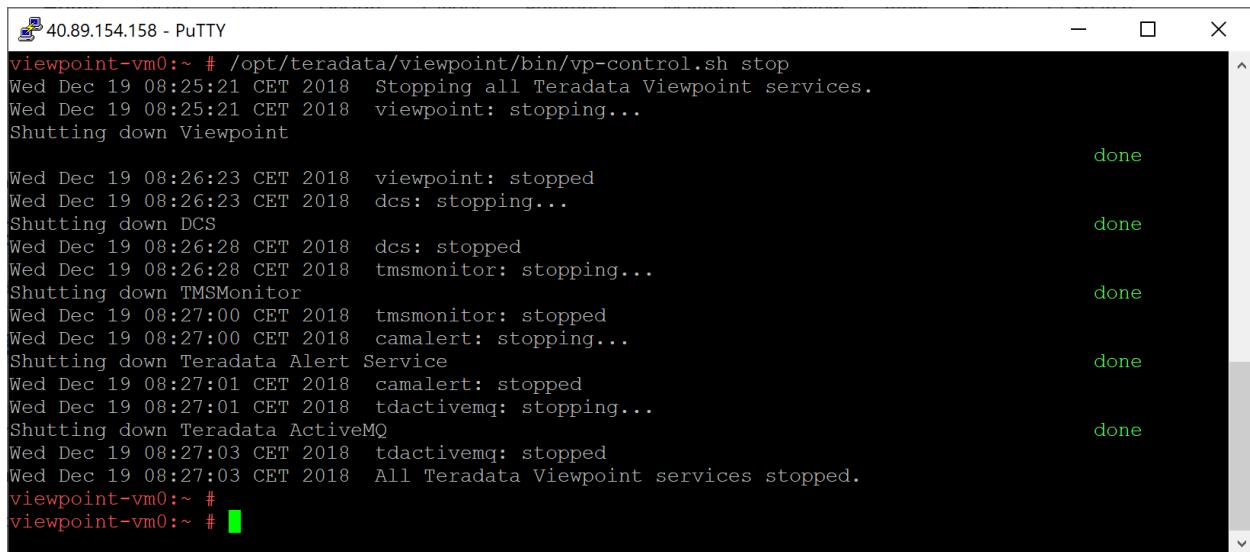
Check the status of the Viewpoint services: `/opt/teradata/viewpoint/bin/vp-control.sh status`



A screenshot of a PuTTY terminal window titled "40.89.154.158 - PuTTY". The window displays the output of the command `/opt/teradata/viewpoint/bin/vp-control.sh status`. The output shows the status of various Teradata Viewpoint services:

```
viewpoint-vm0:~ # /opt/teradata/viewpoint/bin/vp-control.sh status
Wed Dec 19 08:24:07 CET 2018 Checking the status of all Teradata Viewpoint services.
Checking for Teradata ActiveMQ: running
Checking for Teradata Alert Service: running
Checking for TMSMonitor: running
Checking for DCS: running
Checking for Viewpoint: running
Checking for PostgreSQL 9.4.16: running
viewpoint-vm0:~ #
```

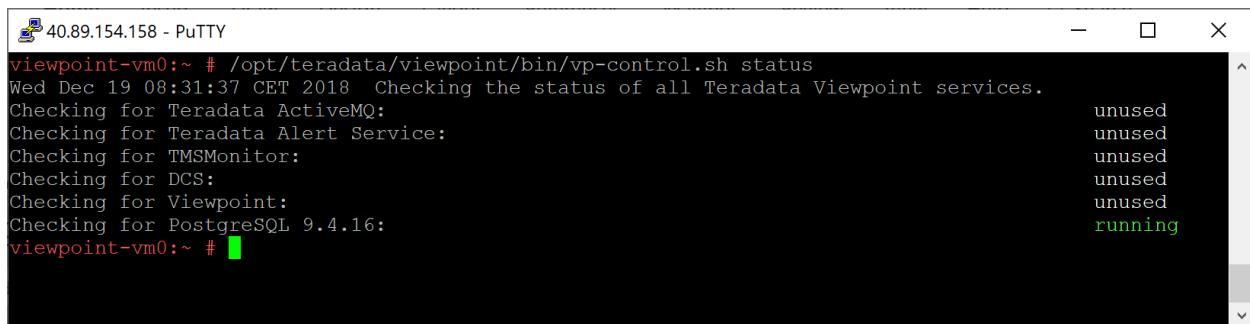
Shut down all Viewpoint services: `/opt/teradata/viewpoint/bin/vp-control.sh stop`. Putting the database in this state may take several minutes.



A screenshot of a PuTTY terminal window titled "40.89.154.158 - PuTTY". The window displays the output of the command `/opt/teradata/viewpoint/bin/vp-control.sh stop`. The output shows the termination of various Teradata Viewpoint services, with each step marked as "done":

```
viewpoint-vm0:~ # /opt/teradata/viewpoint/bin/vp-control.sh stop
Wed Dec 19 08:25:21 CET 2018 Stopping all Teradata Viewpoint services.
Wed Dec 19 08:25:21 CET 2018 viewpoint: stopping...
Shutting down Viewpoint done
Wed Dec 19 08:26:23 CET 2018 viewpoint: stopped
Wed Dec 19 08:26:23 CET 2018 dcs: stopping... done
Shutting down DCS
Wed Dec 19 08:26:28 CET 2018 dcs: stopped
Wed Dec 19 08:26:28 CET 2018 tmsmonitor: stopping... done
Shutting down TMSMonitor
Wed Dec 19 08:27:00 CET 2018 tmsmonitor: stopped
Wed Dec 19 08:27:00 CET 2018 camalert: stopping... done
Shutting down Teradata Alert Service
Wed Dec 19 08:27:01 CET 2018 camalert: stopped
Wed Dec 19 08:27:01 CET 2018 tdactivemq: stopping... done
Shutting down Teradata ActiveMQ
Wed Dec 19 08:27:03 CET 2018 tdactivemq: stopped
Wed Dec 19 08:27:03 CET 2018 All Teradata Viewpoint services stopped.
viewpoint-vm0:~ #
viewpoint-vm0:~ #
```

You can check the Viewpoint services are down: `/opt/teradata/viewpoint/bin/vp-control.sh status`



A screenshot of a PuTTY terminal window titled "40.89.154.158 - PuTTY". The window displays the output of the command `/opt/teradata/viewpoint/bin/vp-control.sh status`. The output shows the status of various Teradata Viewpoint services, including one that has been restarted:

```
viewpoint-vm0:~ # /opt/teradata/viewpoint/bin/vp-control.sh status
Wed Dec 19 08:31:37 CET 2018 Checking the status of all Teradata Viewpoint services.
Checking for Teradata ActiveMQ: unused
Checking for Teradata Alert Service: unused
Checking for TMSMonitor: unused
Checking for DCS: unused
Checking for Viewpoint: unused
Checking for PostgreSQL 9.4.16: running
viewpoint-vm0:~ #
```

Now you can exit the PuTTY session: `exit`.



```
40.89.154.158 - PuTTY
viewpoint-vm0:~ # exit
logout
sanchopanza@viewpoint-vm0:~> exit
```

From the Azure portal, stop the virtual machines associated with Viewpoint.

Home > Resource groups > Teradata > viewpoint-vm0

viewpoint-vm0		Virtual machine																					
<input type="text" value="Search (Ctrl+I)"/>		Connect Start Restart Stop Capture Delete Refresh																					
Overview <ul style="list-style-type: none"> Activity log Access control (IAM) Tags Diagnose and solve problems 																							
Resource group (change) Teradata <table border="1"> <tr> <td>Status</td> <td>Running</td> </tr> <tr> <td>Location</td> <td>France Central</td> </tr> <tr> <td>Subscription (change)</td> <td>Consumo interno de Microsoft Azure</td> </tr> <tr> <td>Subscription ID</td> <td>53d1ee67-5e22-4dbc-976d-577a64136087</td> </tr> <tr> <td>Computer name</td> <td>viewpoint-vm0</td> </tr> <tr> <td>Operating system</td> <td>Linux</td> </tr> <tr> <td>Size</td> <td>Standard D55 v2 (16 vcpus, 56 GB memory)</td> </tr> <tr> <td>Public IP address</td> <td>40.89.154.158</td> </tr> <tr> <td>Virtual network/subnet</td> <td>vnet-teradata/vmsubnet</td> </tr> <tr> <td>DNS name</td> <td>viewpoint.francecentral.cloudapp.azure.com</td> </tr> </table>				Status	Running	Location	France Central	Subscription (change)	Consumo interno de Microsoft Azure	Subscription ID	53d1ee67-5e22-4dbc-976d-577a64136087	Computer name	viewpoint-vm0	Operating system	Linux	Size	Standard D55 v2 (16 vcpus, 56 GB memory)	Public IP address	40.89.154.158	Virtual network/subnet	vnet-teradata/vmsubnet	DNS name	viewpoint.francecentral.cloudapp.azure.com
Status	Running																						
Location	France Central																						
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Virtual network/subnet	vnet-teradata/vmsubnet																						
DNS name	viewpoint.francecentral.cloudapp.azure.com																						

Home > Resource groups > Teradata > viewpoint-vm0

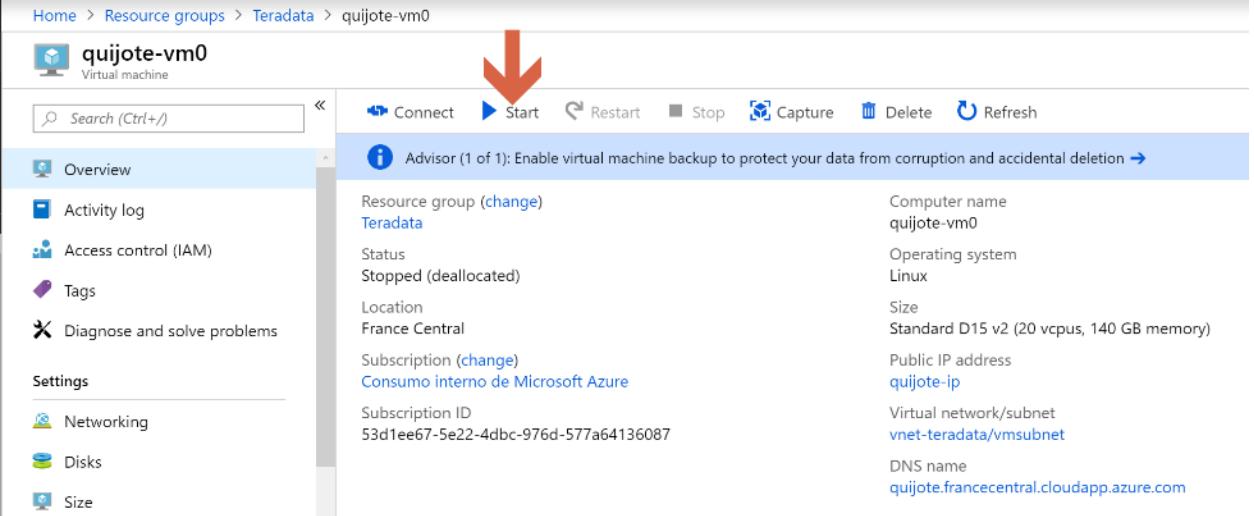
viewpoint-vm0		Virtual machine																	
<input type="text" value="Search (Ctrl+I)"/>		Connect Start Restart Stop Capture Delete Refresh																	
Stop this virtual machine Do you want to stop 'viewpoint-vm0'?																			
Yes No <table border="1"> <tr> <td>Location</td> <td>France Central</td> <td>Size</td> <td>Standard D55 v2 (16 vcpus, 56 GB memory)</td> </tr> <tr> <td>Subscription (change)</td> <td>Consumo interno de Microsoft Azure</td> <td>Public IP address</td> <td>40.89.154.158</td> </tr> <tr> <td>Subscription ID</td> <td>53d1ee67-5e22-4dbc-976d-577a64136087</td> <td>Virtual network/subnet</td> <td>vnet-teradata/vmsubnet</td> </tr> <tr> <td></td> <td></td> <td>DNS name</td> <td>viewpoint.francecentral.cloudapp.azure.com</td> </tr> </table>				Location	France Central	Size	Standard D55 v2 (16 vcpus, 56 GB memory)	Subscription (change)	Consumo interno de Microsoft Azure	Public IP address	40.89.154.158	Subscription ID	53d1ee67-5e22-4dbc-976d-577a64136087	Virtual network/subnet	vnet-teradata/vmsubnet			DNS name	viewpoint.francecentral.cloudapp.azure.com
Location	France Central	Size	Standard D55 v2 (16 vcpus, 56 GB memory)																
Subscription (change)	Consumo interno de Microsoft Azure	Public IP address	40.89.154.158																
Subscription ID	53d1ee67-5e22-4dbc-976d-577a64136087	Virtual network/subnet	vnet-teradata/vmsubnet																
		DNS name	viewpoint.francecentral.cloudapp.azure.com																

8. How to resume working again

Teradata Vantage

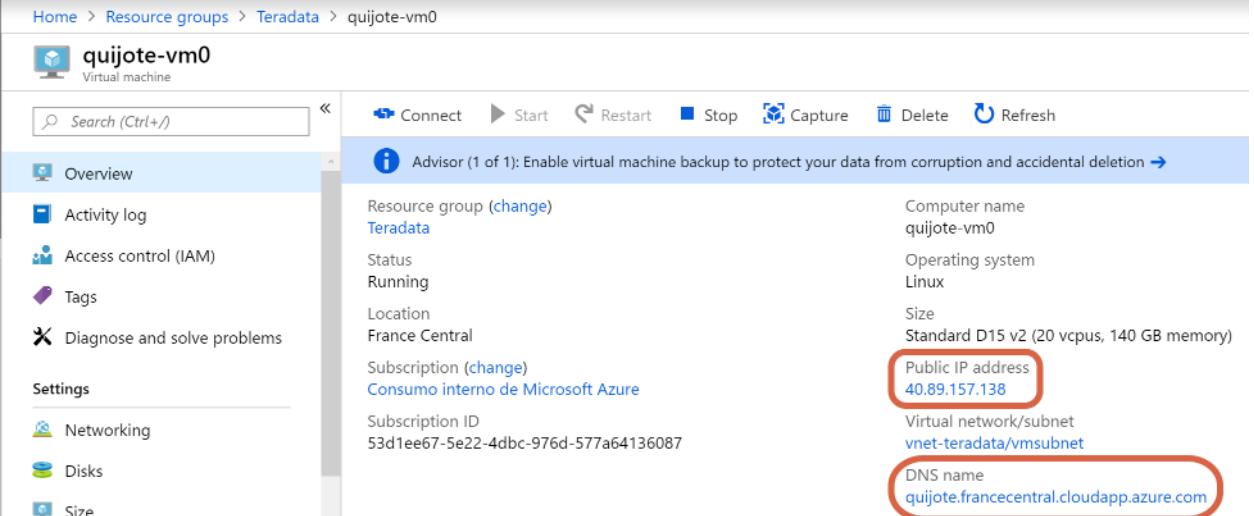
From the Azure portal, start the virtual machines associated with Teradata Vantage.





Resource group (change)	Computer name
Teradata	quiijote-vm0
Status	Operating system
Stopped (deallocated)	Linux
Location	Size
France Central	Standard D15 v2 (20 vcpus, 140 GB memory)
Subscription (change)	Public IP address
Consumo interno de Microsoft Azure	quiijote-ip
Subscription ID	Virtual network/subnet
53d1ee67-5e22-4dbc-976d-577a64136087	vnet-teradata/vmsubnet
	DNS name
	quiijote.francecentral.cloudapp.azure.com

We take note of the public IP address and the DNS name:

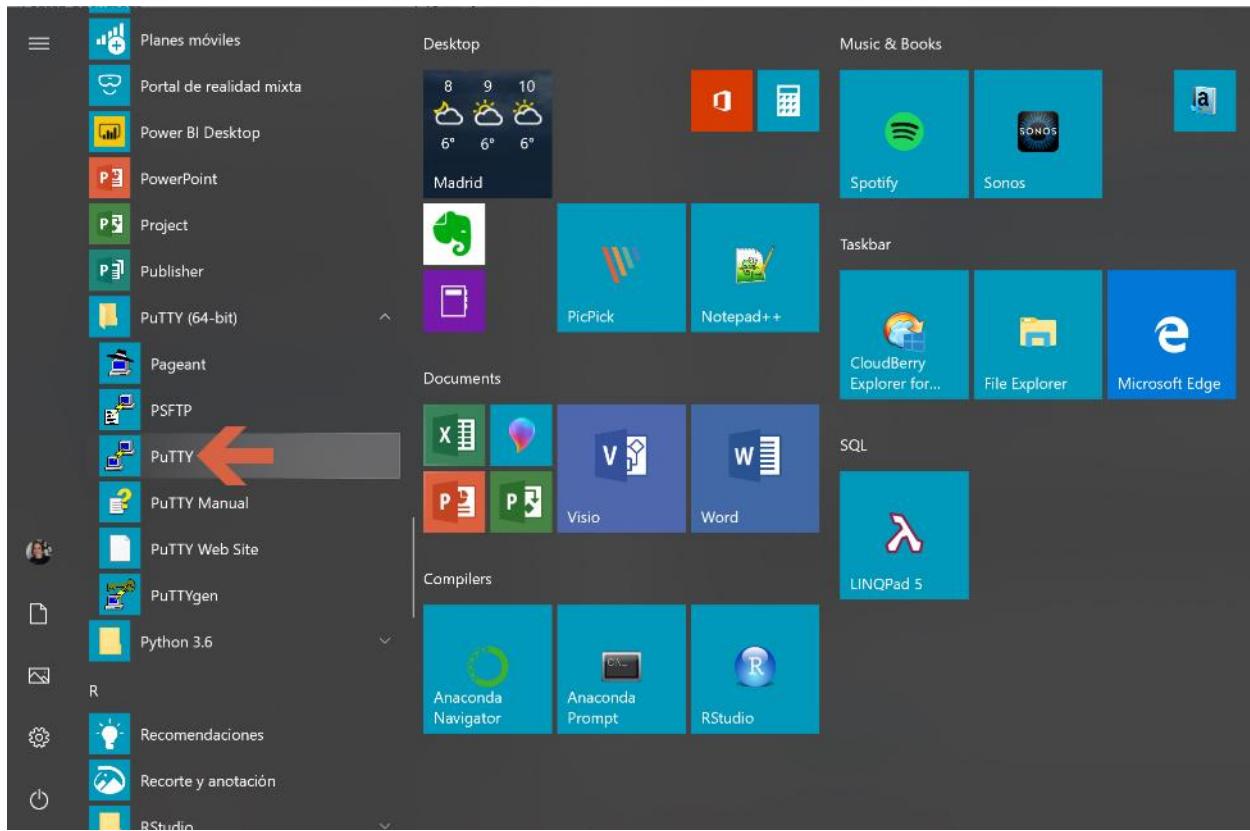


Resource group (change)	Computer name
Teradata	quiijote-vm0
Status	Operating system
Running	Linux
Location	Size
France Central	Standard D15 v2 (20 vcpus, 140 GB memory)
Subscription (change)	Public IP address
Consumo interno de Microsoft Azure	40.89.157.138
Subscription ID	Virtual network/subnet
53d1ee67-5e22-4dbc-976d-577a64136087	vnet-teradata/vmsubnet
	DNS name
	quiijote.francecentral.cloudapp.azure.com

Now we connect to the node operating system. To do it, we are going to use [PuTTY](#), which is used to secure remote shell access to a Linux system. If you don't have PuTTY installed on your computer, you can download it from [here](#).

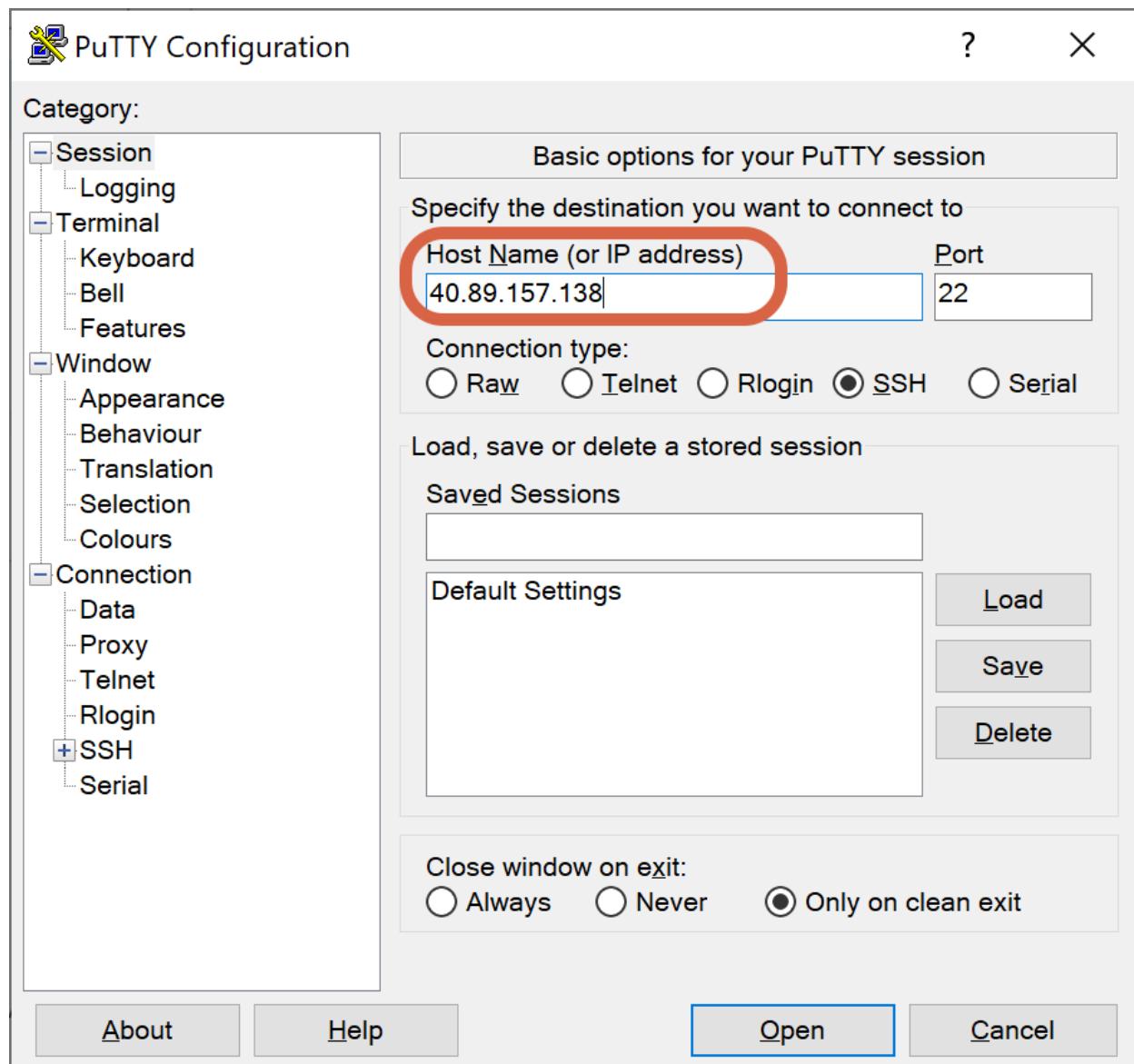
We open PuTTY.





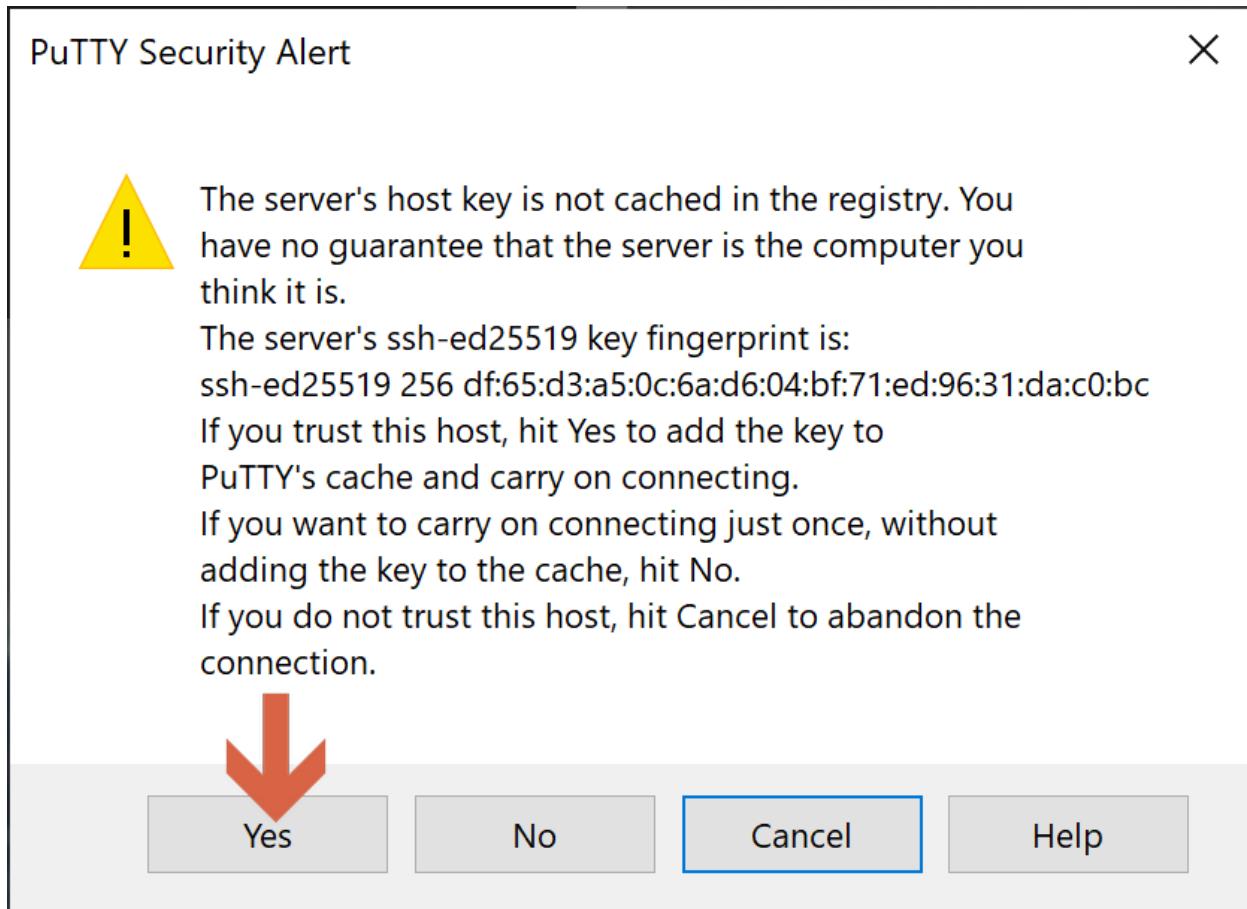
Provide the Teradata node (quijote-vm0) IP address or DNS name, and click “Open”.





If the PuTTY Security Alert window appears, click on “Yes”.





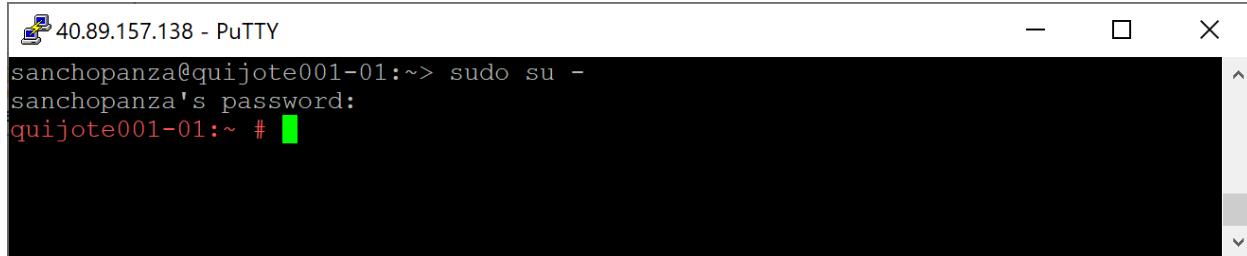
When prompted, provide with the OS user and password which you setup in screen 1, section 2.

A screenshot of a PuTTY terminal window titled "40.89.157.138 - PuTTY". The window displays the following text:

```
login as: sanchopanza
Using keyboard-interactive authentication.
Password: [REDACTED]
```

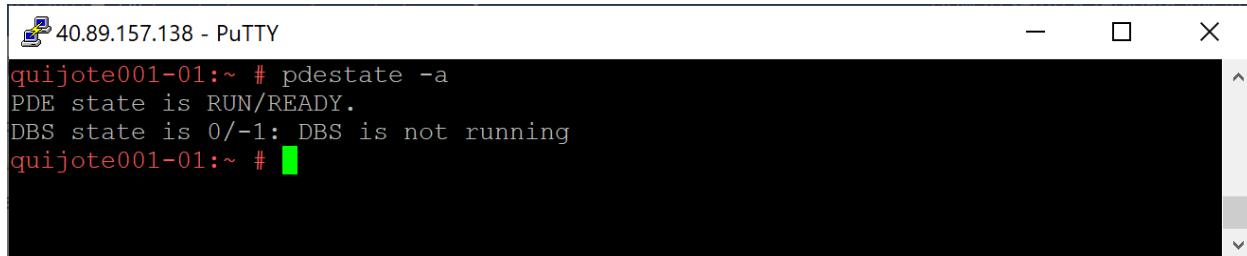
Switch to the root user environment: `sudo su -`





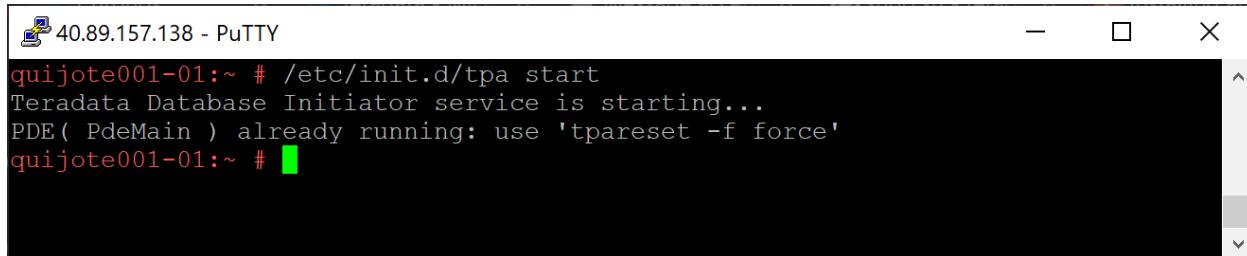
```
40.89.157.138 - PuTTY
sanchopanza@quijsote001-01:~> sudo su -
sanchopanza's password:
quijsote001-01:~ #
```

Verify the database is shut down: *pdestate -a*



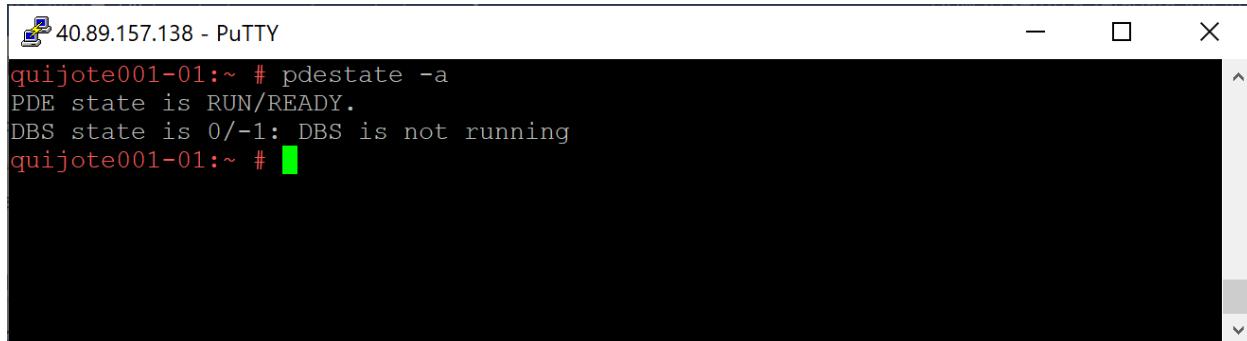
```
40.89.157.138 - PuTTY
quijsote001-01:~ # pdestate -a
PDE state is RUN/READY.
DBS state is 0/-1: DBS is not running
quijsote001-01:~ #
```

Restart the database: */etc/init.d/tpa start*. Putting the database in this state may take several minutes.



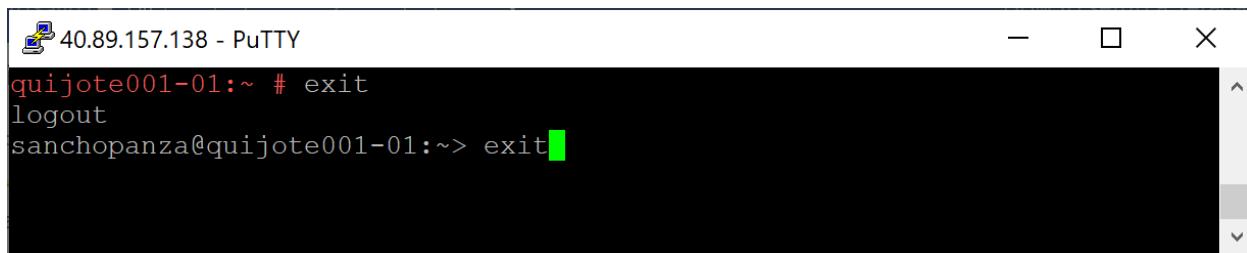
```
40.89.157.138 - PuTTY
quijsote001-01:~ # /etc/init.d/tpa start
Teradata Database Initiator service is starting...
PDE( PdeMain ) already running: use 'tpareset -f force'
quijsote001-01:~ #
```

Verify PDE is up and running: *pdestate -a*



```
40.89.157.138 - PuTTY
quijsote001-01:~ # pdestate -a
PDE state is RUN/READY.
DBS state is 0/-1: DBS is not running
quijsote001-01:~ #
```

Now you can exit the PuTTY session: *exit*.

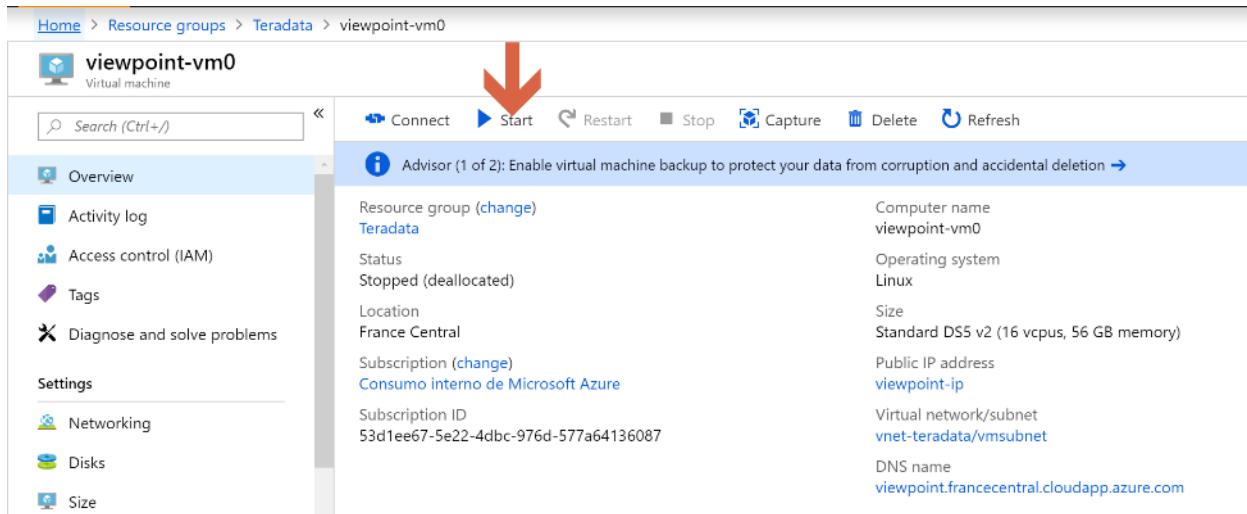


```
40.89.157.138 - PuTTY
quijsote001-01:~ # exit
logout
sanchopanza@quijsote001-01:~> exit
```



Viewpoint

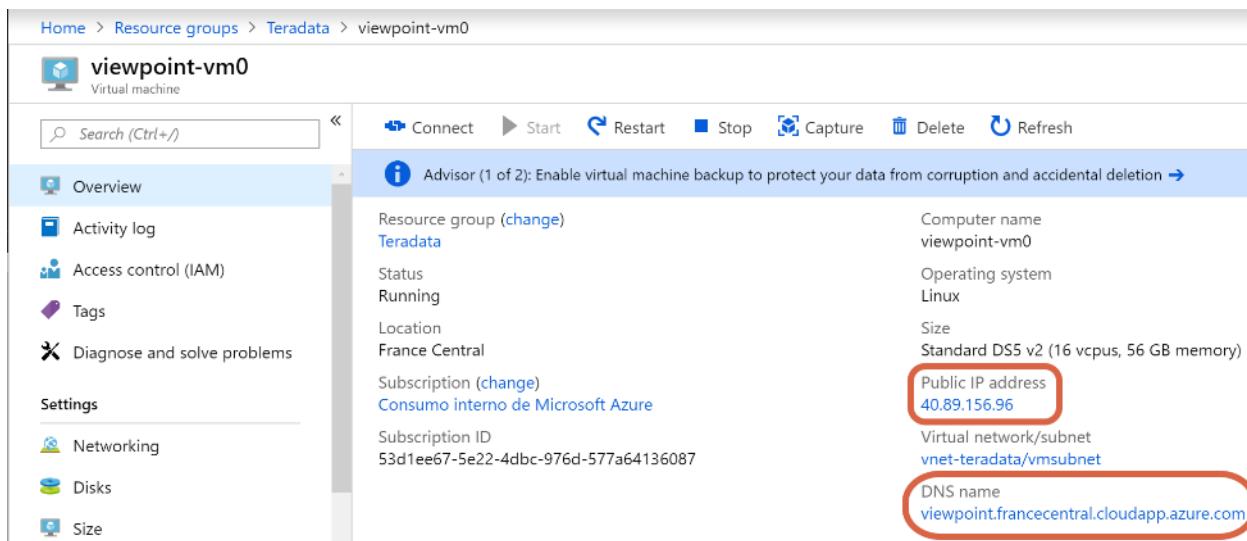
From the Azure portal, start the virtual machines associated with Viewpoint.



The screenshot shows the Azure portal interface for a virtual machine named 'viewpoint-vm0'. The left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Networking, Disks, Size), and a search bar. The main content area displays the VM's properties. A blue banner at the top right says 'Advisor (1 of 2): Enable virtual machine backup to protect your data from corruption and accidental deletion'. Below it, the VM details are listed:

Property	Value
Resource group (change)	Teradata
Status	Stopped (deallocated)
Location	France Central
Subscription (change)	Consumo interno de Microsoft Azure
Subscription ID	53d1ee67-5e22-4dbc-976d-577a64136087
Computer name	viewpoint-vm0
Operating system	Linux
Size	Standard DS5 v2 (16 vcpus, 56 GB memory)
Public IP address	viewpoint-ip
Virtual network/subnet	vnet-teradata/vmsubnet
DNS name	viewpoint.francecentral.cloudapp.azure.com

We take note of the IP and DNS name.



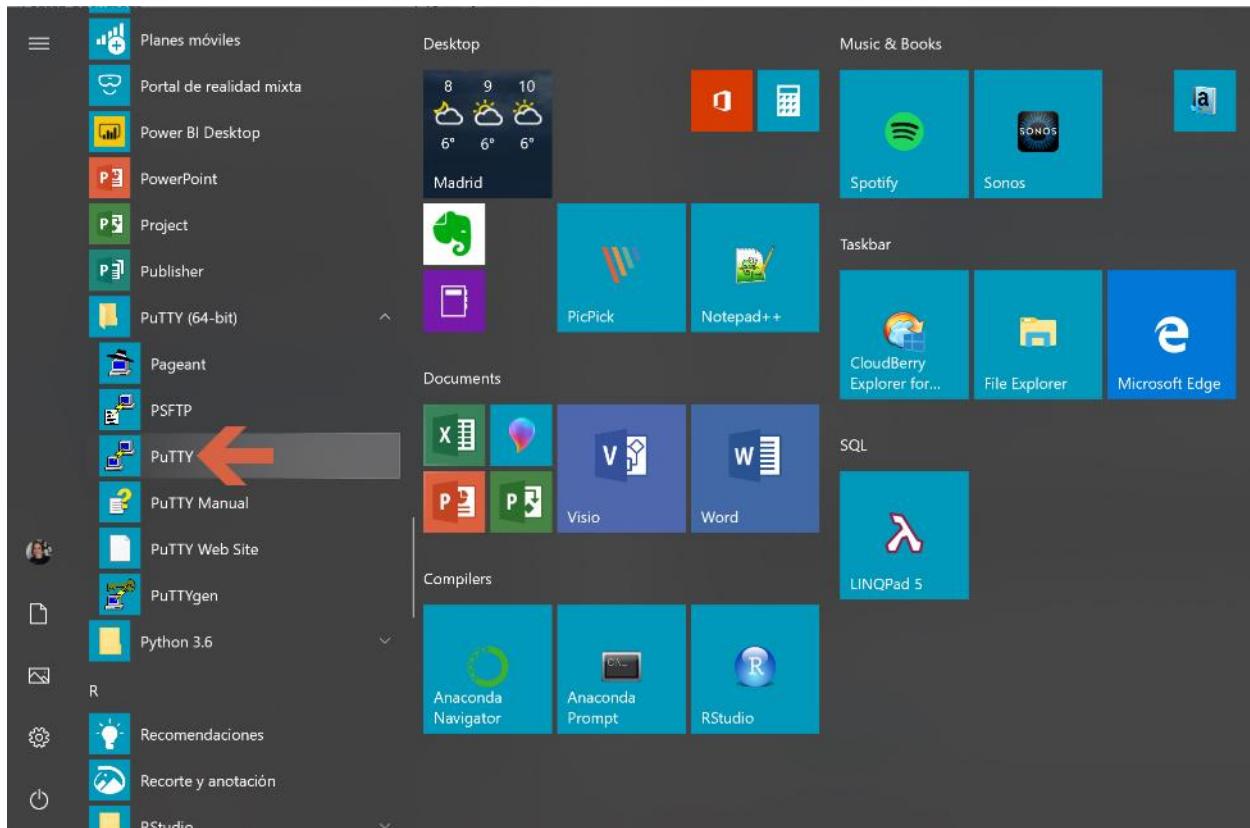
The screenshot shows the Azure portal interface for the same virtual machine 'viewpoint-vm0'. The left sidebar and main content area are identical to the previous screenshot, except the VM is now running. The status is shown as 'Running' in the properties table. The 'Public IP address' (40.89.156.96) and 'DNS name' (viewpoint.francecentral.cloudapp.azure.com) are highlighted with red boxes.

Property	Value
Resource group (change)	Teradata
Status	Running
Location	France Central
Subscription (change)	Consumo interno de Microsoft Azure
Subscription ID	53d1ee67-5e22-4dbc-976d-577a64136087
Computer name	viewpoint-vm0
Operating system	Linux
Size	Standard DS5 v2 (16 vcpus, 56 GB memory)
Public IP address	40.89.156.96
Virtual network/subnet	vnet-teradata/vmsubnet
DNS name	viewpoint.francecentral.cloudapp.azure.com

Now we connect to the node operating system. To do it, we are going to use [PuTTY](#), which is used to secure remote shell access to a Linux system. If you don't have PuTTY installed on your computer, you can download it from [here](#).

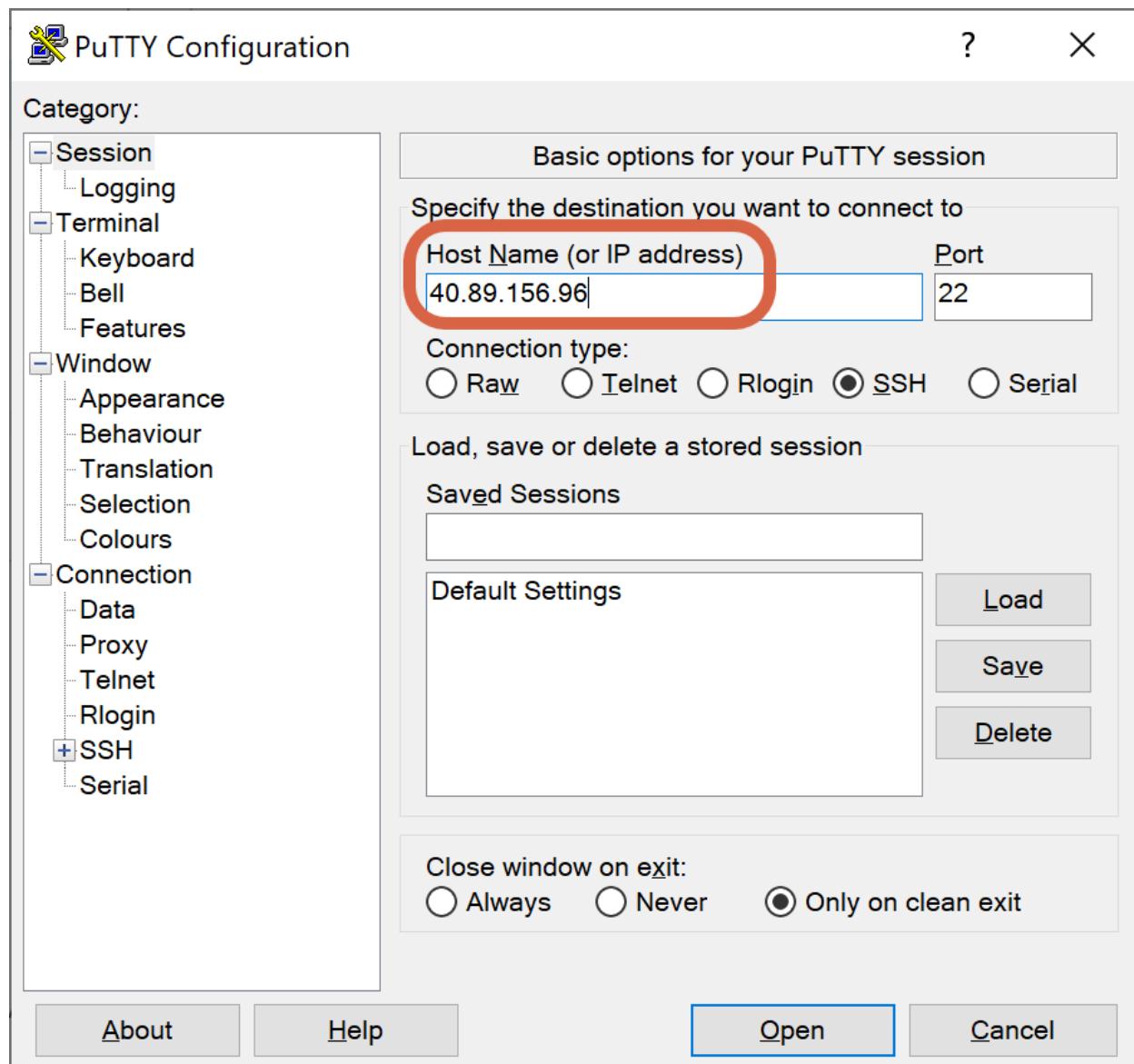
We open PuTTY.





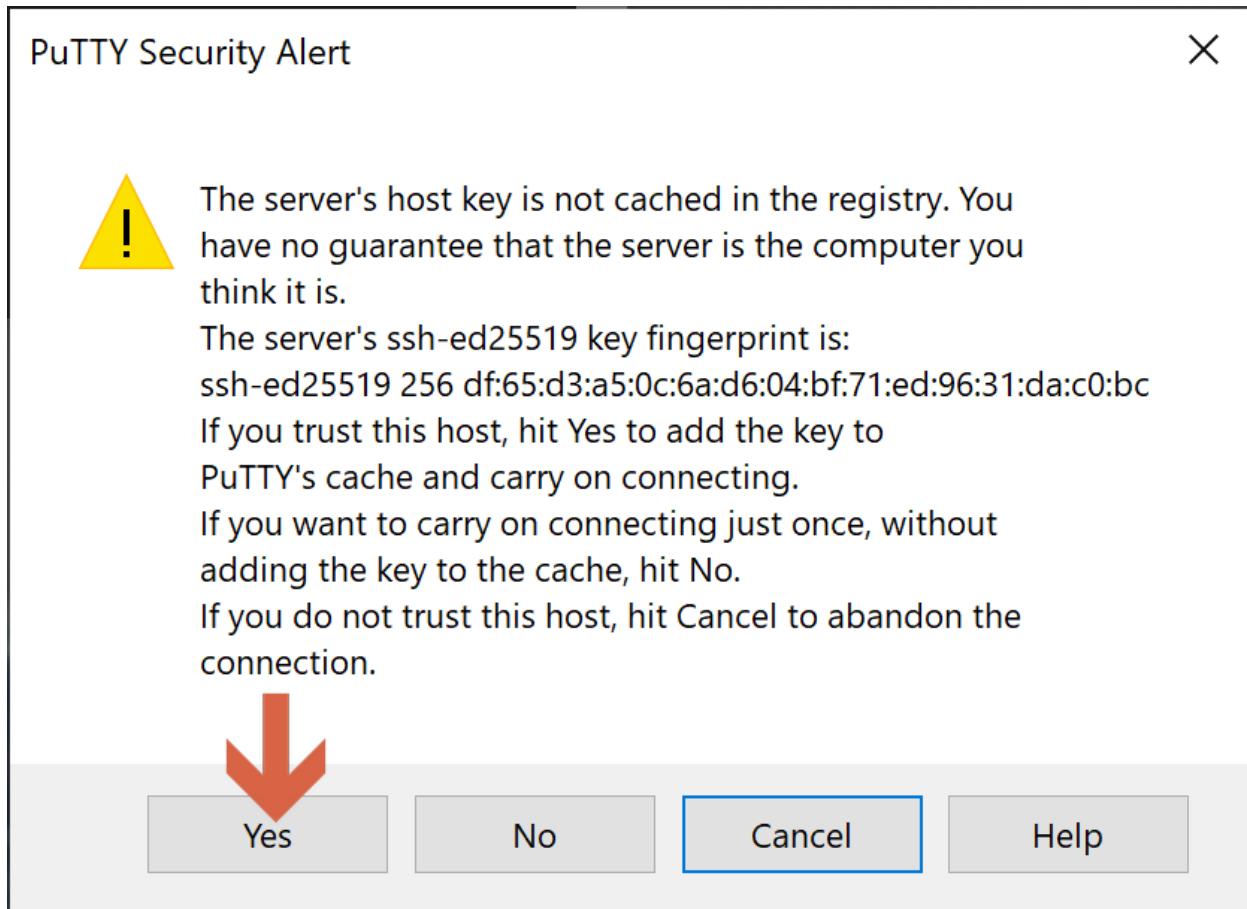
Provide the Viewpoint node (viewpoint-vm0) IP address or DNS name, and click “Open”.





If the PuTTY Security Alert window appears, click on “Yes”.





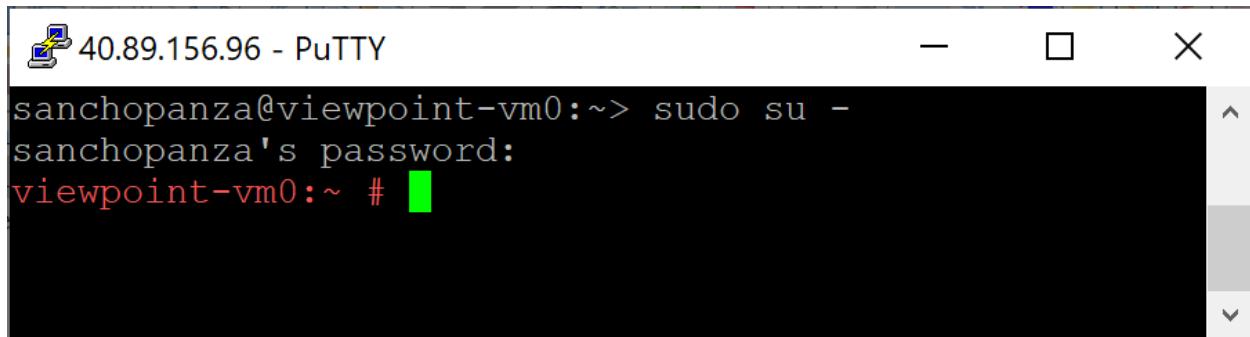
When prompted, provide with the OS user and password which you setup in screen 1, section 2.

A screenshot of a PuTTY terminal window titled "40.89.156.96 - PuTTY". The window displays the following text:

```
login as: sanchopanza
Using keyboard-interactive authentication.
Password: [REDACTED]
```

Switch to the root user environment: `sudo su -`

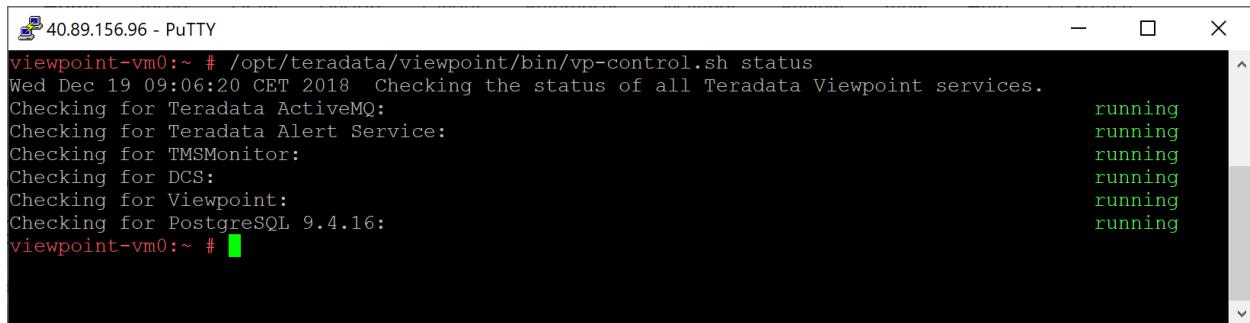




40.89.156.96 - PuTTY

```
sanchopanza@viewpoint-vm0:~> sudo su -
sanchopanza's password:
viewpoint-vm0:~ #
```

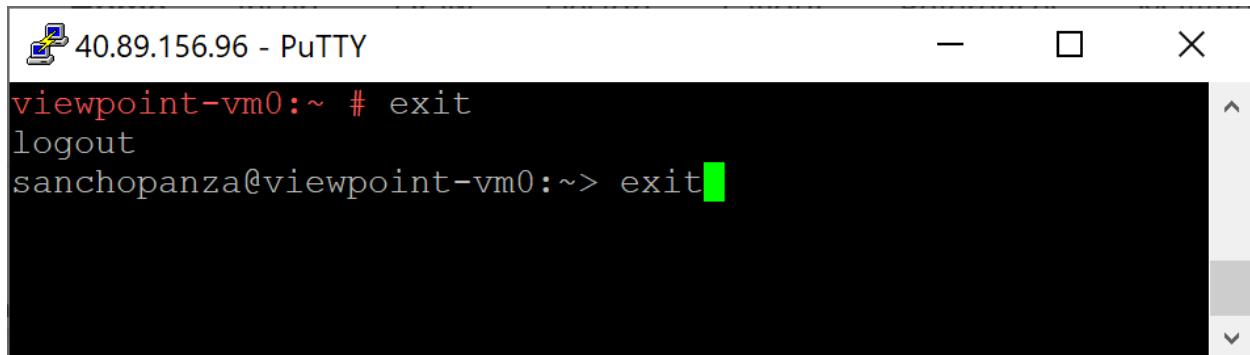
Check the status of the Viewpoint services: `/opt/teradata/viewpoint/bin/vp-control.sh status`



40.89.156.96 - PuTTY

```
viewpoint-vm0:~ # /opt/teradata/viewpoint/bin/vp-control.sh status
Wed Dec 19 09:06:20 CET 2018 Checking the status of all Teradata Viewpoint services.
Checking for Teradata ActiveMQ: running
Checking for Teradata Alert Service: running
Checking for TMSMonitor: running
Checking for DCS: running
Checking for Viewpoint: running
Checking for PostgreSQL 9.4.16: running
viewpoint-vm0:~ #
```

Now you can exit the PuTTY session: `exit`.



40.89.156.96 - PuTTY

```
viewpoint-vm0:~ # exit
logout
sanchopanza@viewpoint-vm0:~> exit
```

