

# 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.

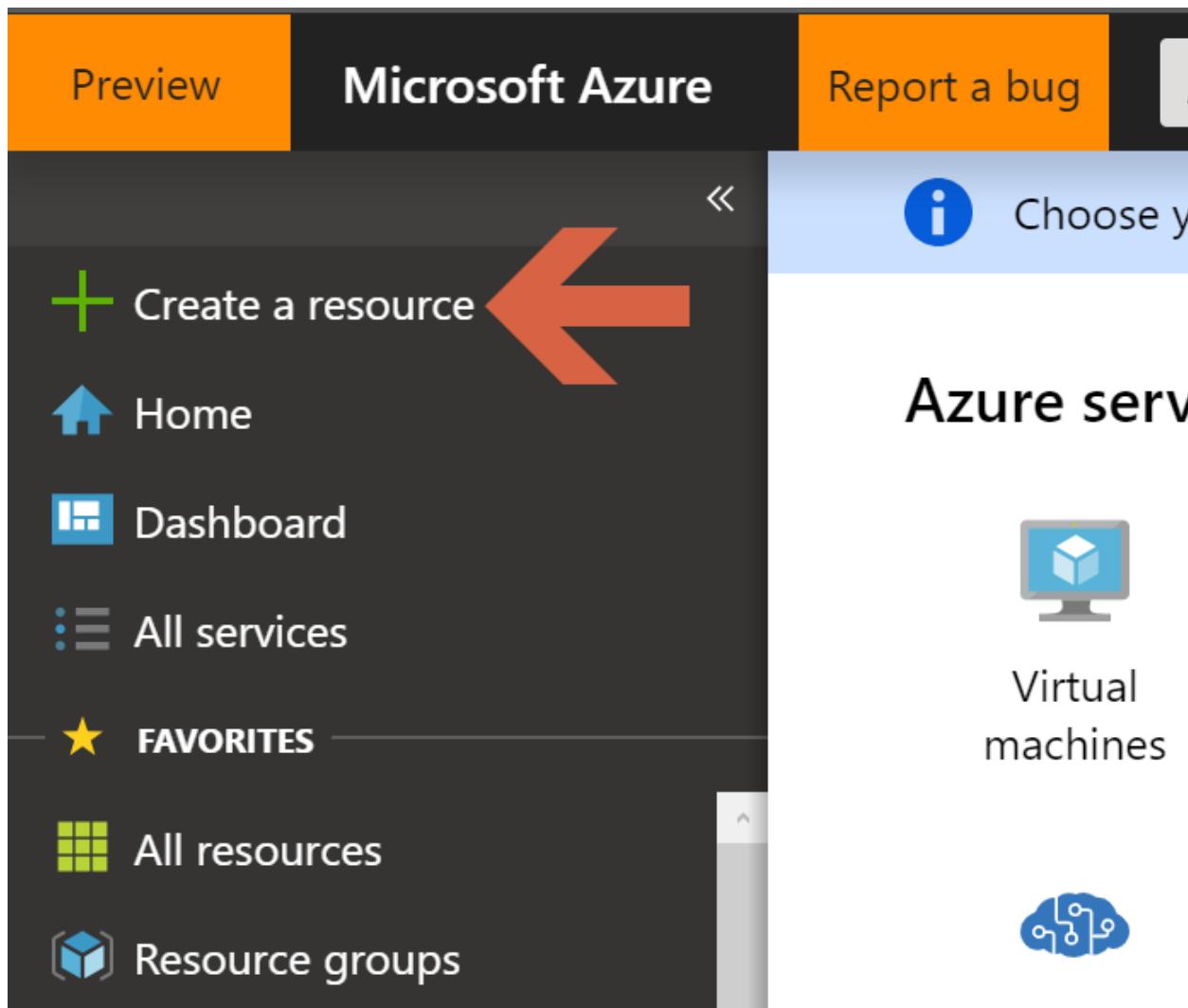
This post is a Quick Start Guide to set up a Teradata Virtual Machine in Azure and to connect to it. Some of the steps shown in this document can be used to setup a VMWare virtual machine too or connect to a physical system.

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 Vladimirskiy 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

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.

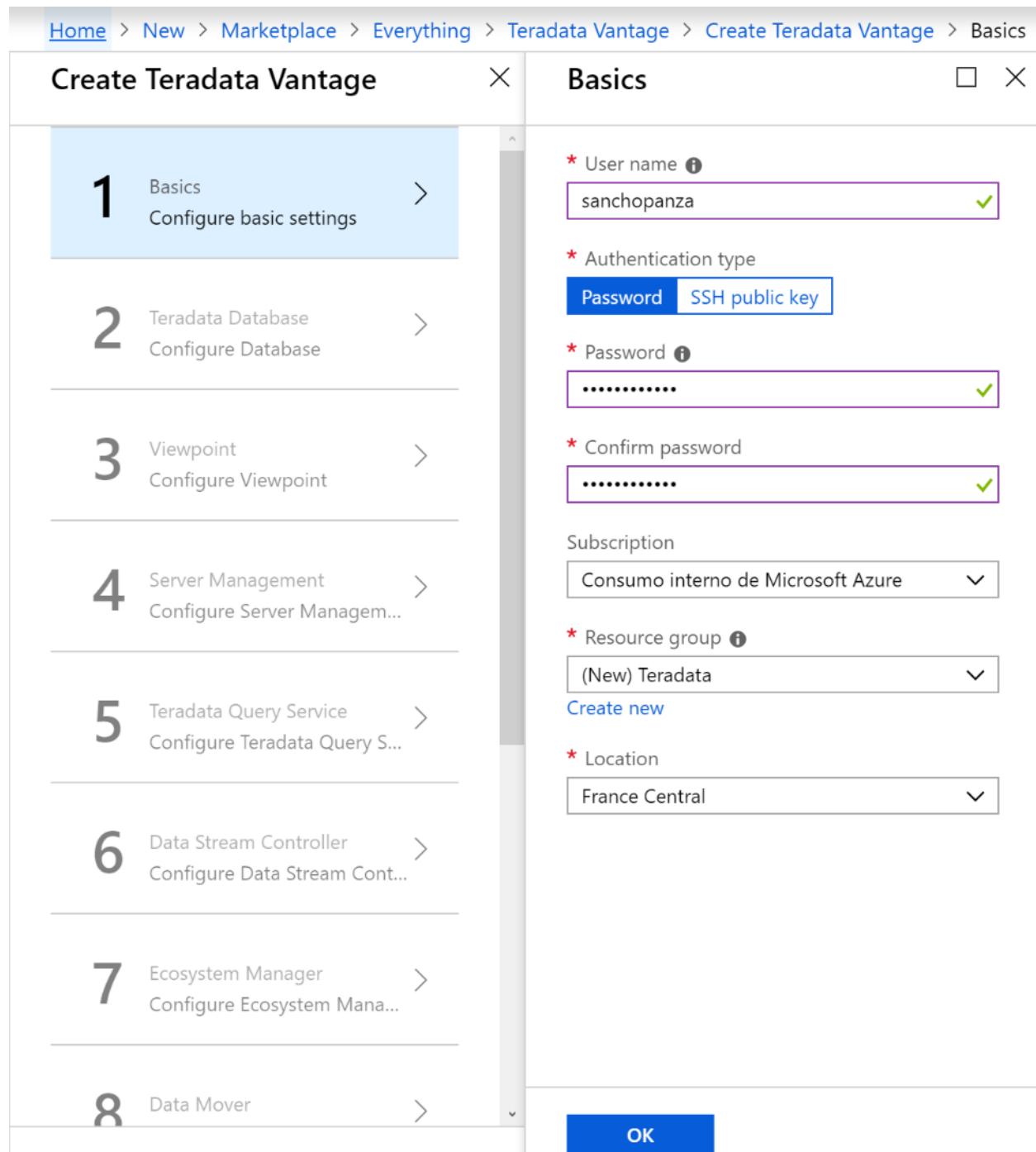
The Base, Advanced, and Enterprise tiers include Teradata Premier Cloud Support; Developer includes Forum support. All tiers include rights to use:

- 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.



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:

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 >

\* 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 D15 v2** >

Storage Size Per Node ⓘ Local Storage ✓

\* Number of nodes ⓘ 1 ✓

Temporal ⓘ

OK

The screenshot shows the 'Create Teradata Vantage' wizard interface. On the left, a vertical list of steps from 1 to 8 is shown, each with a title and a 'Configure' link. Step 1 is marked as 'Done'. Step 2 is currently selected. On the right, a 'Database Settings' panel contains various configuration options with their current values and validation status (indicated by green checkmarks).

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

- 1 Basics Done (Completed)
- 2 Teradata Database Configure Database (Selected)
- 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 right side of the screen displays the 'Database Settings' configuration page. It includes the following fields:

- 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: Yes (selected)
- Row Level Security: Yes (selected)
- Secure Zones: Yes (selected)
- Mainframe Connectivity: 0

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

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

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 Settings

\* 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 is shown:

- 1 Basics** Done (green checkmark)
- 2 Teradata Database** Configure Database (highlighted in blue)
- 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**

On the right, the 'Database Settings' page is displayed. It includes the following configuration options:

- Enterprise** tab selected.
- \* 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)**: No (selected).
- Row Level Security**: No (selected).
- Secure Zones**: No (selected).
- \* Mainframe Connectivity**: 0.

A large blue 'OK' button is 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

### Viewpoint Settings

Viewpoint  Yes  No

1 Basics Done ✓

2 Teradata Database Done ✓

3 Viewpoint Configure Viewpoint >

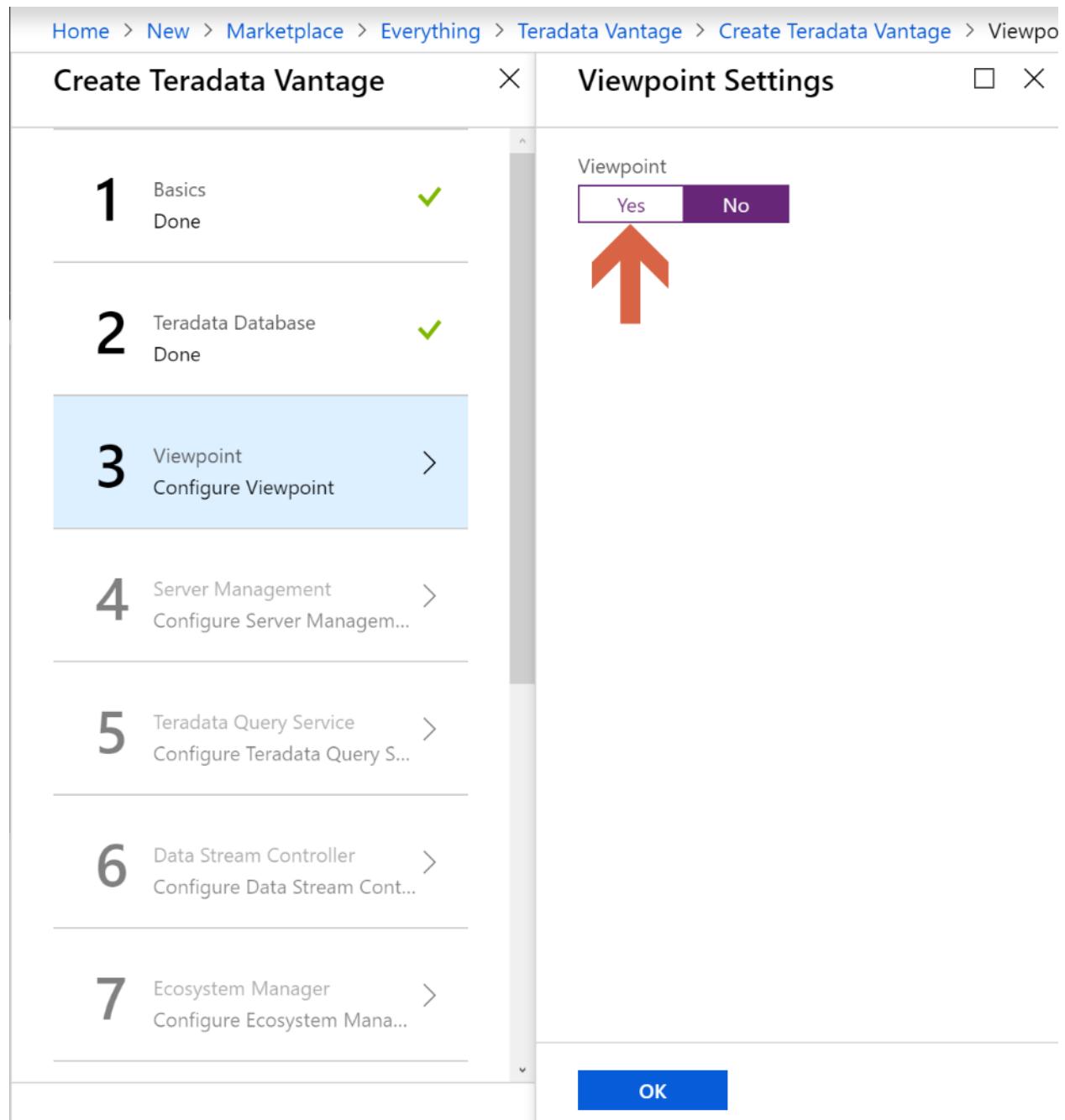
4 Server Management Configure Server Managem... >

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

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

7 Ecosystem Manager Configure Ecosystem Mana... >

OK



The screenshot shows the 'Create Teradata Vantage' wizard interface. The left pane lists eight steps:

- 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 right pane is titled 'Viewpoint Settings' and contains the following configuration fields:

- Viewpoint**: Yes (selected)
- \* Viewpoint system name prefix**: viewpoint
- \* System nickname**: quijote
- \* Viewpoint portal admin user password**: (redacted)
- \* Confirm portal admin user password**: (redacted)
- Viewpoint Image version**: Teradata Viewpoint Single System
- \* VM size**: 1x Standard DS5 v2

A blue 'OK' button is at the bottom right of the configuration pane.

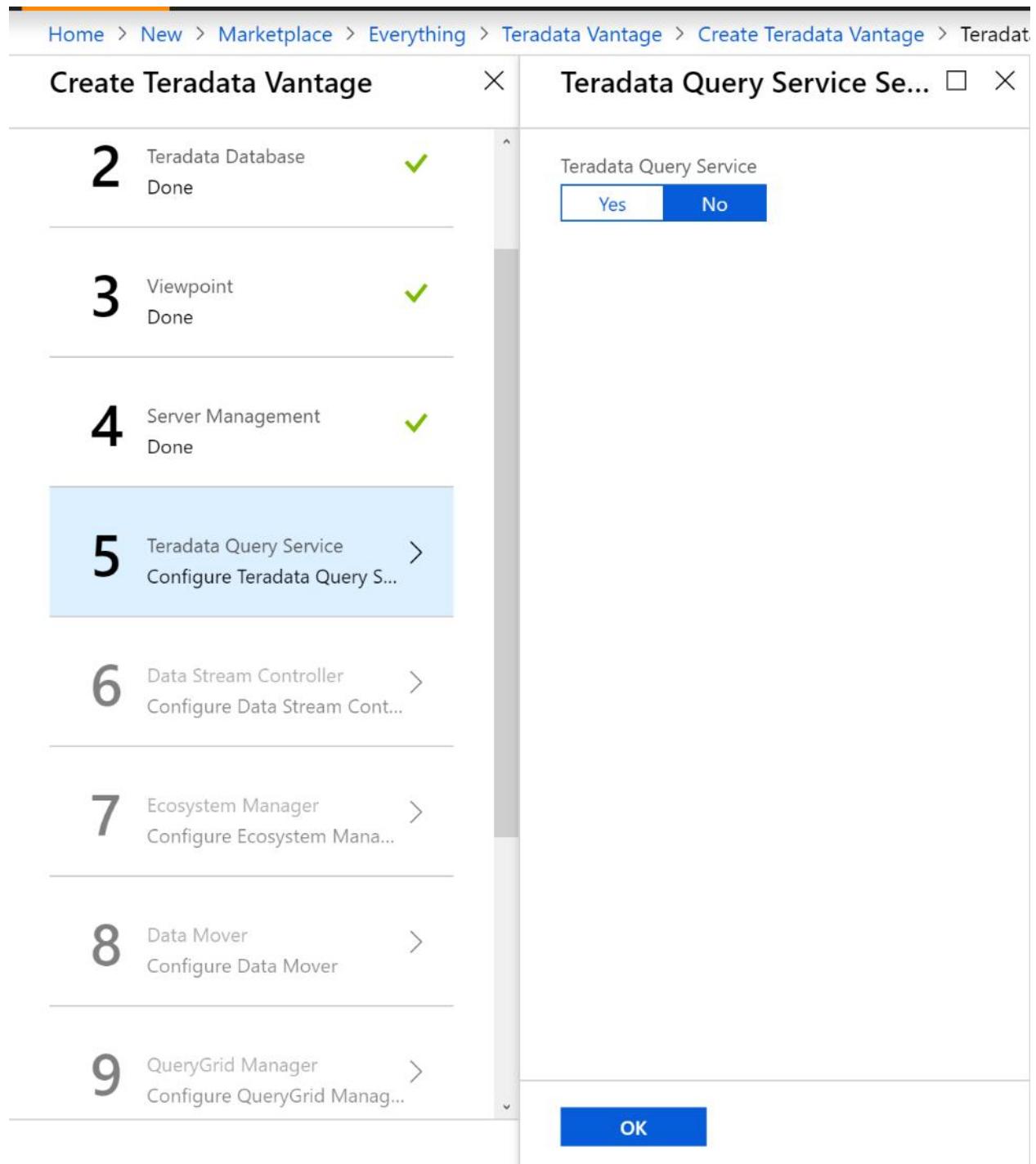
Server Management allows the Teradata Customer Service team to connect to the system and perform the tasks required by the customer as per the Support contact. We don't need it.

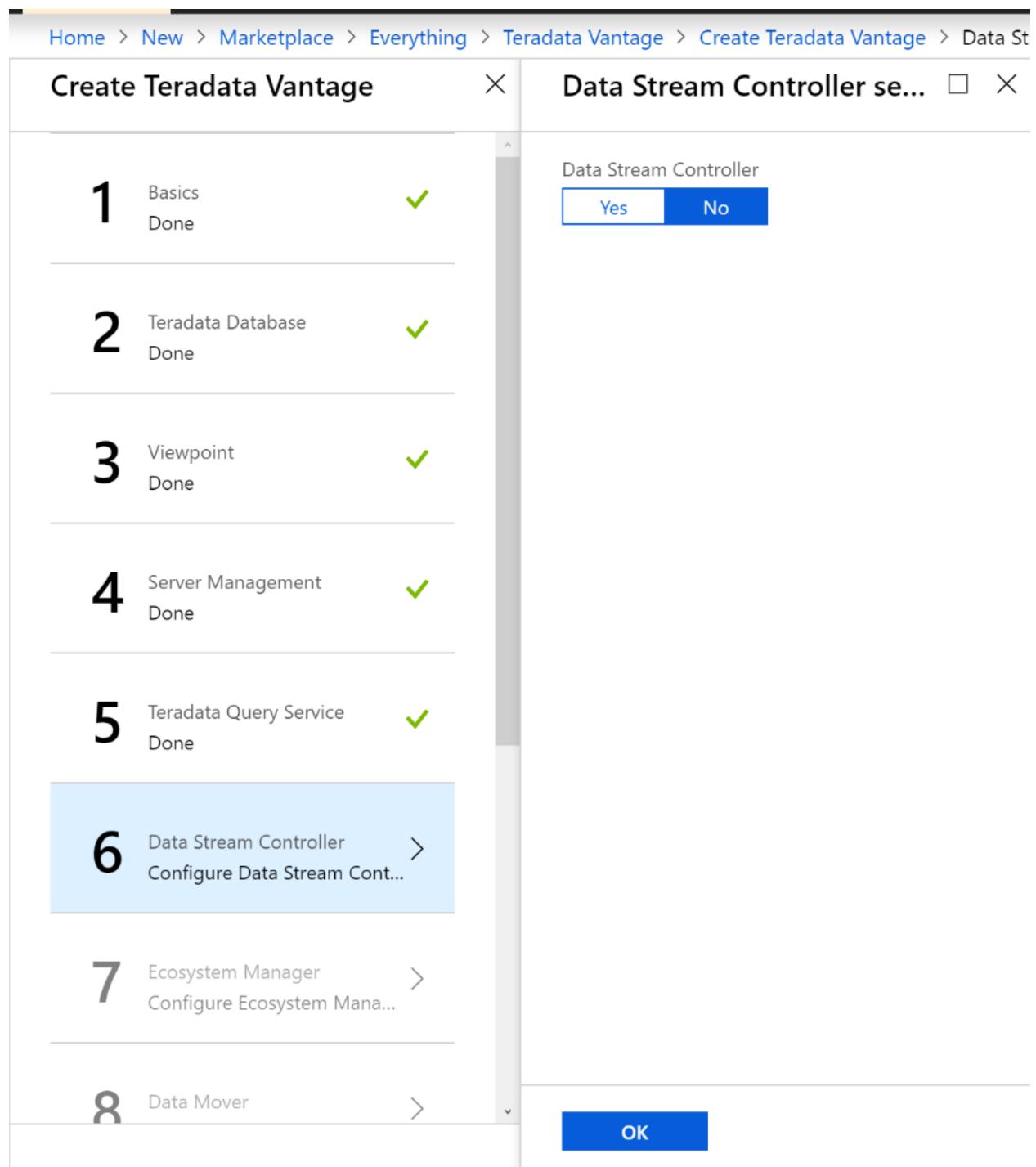
The screenshot shows the 'Create Teradata Vantage' wizard with the following steps completed:

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

A modal window titled 'Server Management Settings' is open at Step 4. It contains two buttons: 'Yes' (white background) and 'No' (blue background). A large red arrow points upwards towards the 'No' button.

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 > Ecosyst

## Create Teradata Vantage

Ecosystem Manager Setti...

Basics Done ✓

Teradata Database Done ✓

Viewpoint Done ✓

Server Management Done ✓

Teradata Query Service Done ✓

Data Stream Controller Done ✓

**Ecosystem Manager**

Configure Ecosystem Mana... >

Data Mover >

OK

The screenshot shows a 'Create Teradata Vantage' wizard with 8 steps. Step 7, 'Ecosystem Manager', is highlighted with a blue background and a right-pointing arrow. The other steps are numbered 1 through 6 and 8, each with a green checkmark indicating completion. Step 7 has a blue 'Configure Ecosystem Mana...' link below it. Step 8 has a right-pointing arrow. A modal window titled 'Ecosystem Manager' is open, containing 'Yes' and 'No' buttons. At the bottom right of the main screen is an 'OK' button.

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

## Create Teradata Vantage

X

5 Done

4 Server Management ✓ Done

5 Teradata Query Service ✓ Done

6 Data Stream Controller ✓ Done

7 Ecosystem Manager ✓ Done

8 Data Mover > Configure Data Mover

9 QueryGrid Manager > Configure QueryGrid Manag...

10 General Settings > Configure General Settings

## Data Mover settings

□ X

**i** Data Mover is not available for Developer Tier

OK

The screenshot shows a step-by-step configuration wizard for creating a Teradata Vantage instance. Step 8, 'Data Mover', is currently selected. A note on the right states: 'Data Mover is not available for Developer Tier'. The 'OK' button at the bottom right is highlighted.

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

## Create Teradata Vantage

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

## QueryGrid Manager Setti...

**i** QueryGrid Manager is not available for Developer Tier

OK

Review the general settings.

The screenshot shows the Azure portal interface for creating a Teradata Vantage VM. The left pane displays a numbered checklist from 1 to 10, where steps 1 through 9 are completed ('Done') and step 10 is currently selected ('Configure General Settings'). The right pane is divided into three tabs: 'General Settings' (selected), 'Subnets', and 'Logs'. The 'General Settings' tab shows the 'Virtual Network Configuration' section, which includes a 'Virtual network' dropdown set to '(new) vnet-teradata', a 'Subnets' section with a warning icon, and sections for 'NTP server list' containing '0.pool.ntp.org,1.pool.ntp.org,2.pool.ntp.org,...' and 'Time zone' set to 'Europe/Madrid'. The 'Subnets' tab shows fields for 'VM subnet name' (vmsubnet) and 'VM subnet address prefix' (10.0.0.0/24). At the bottom, there are 'OK' buttons for each tab.

Review the Summary and click OK:

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

Create Teradata Vantage X Summary

Done

Validation passed

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 >

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

The screenshot shows the 'Create Teradata Vantage' wizard in progress. The left sidebar lists steps 6 through 12. Step 11 is currently selected, showing a summary of the configuration. Step 12 is a 'Buy' step. The right panel displays detailed settings for each step. The 'Basics' section includes subscription (Consumo interno de Microsoft Azure), resource group (Teradata), location (France Central), user name (sanchopanza), and password (\*\*\*\*\*). The 'Database Settings' section includes 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), and mainframe connectivity (0). The 'Viewpoint Settings' section includes viewpoint (Yes), viewpoint system name prefix (viewpoint), system nickname (quijote), viewpoint portal admin user (\*\*\*\*\*), viewpoint image version (Teradata Viewpoint Single System), and VM size (Standard DS5 v2). The 'Server Management Settings' section is partially visible. At the bottom, there are 'OK' and 'Download template and parameters' buttons.

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

Create Teradata Vantage		X	Summary	□ >
1	Done			
6	Data Stream Controller Done	✓	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 DSS v2	
7	Ecosystem Manager Done	✓		
8	Data Mover Done	✓	Server Management Settings Server Management No	
9	QueryGrid Manager Done	✓	Teradata Query Service Settings Teradata Query Service No Data Stream Controller settings Data Stream Controller No	
10	General Settings Done	✓	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	
11	Summary Teradata Vantage	>		
12	Buy	>		

**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	□ >
<b>1</b>	Basics Done	✓	Teradata Vantage by Teradata <a href="#">Terms of use</a>   <a href="#">privacy policy</a>	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.
<b>2</b>	Teradata Database Done	✓	Current retail prices for Azure resources are set forth <a href="#">here</a> and may not reflect discounts applicable to your Azure subscription.	Prices for Marketplace offerings are set forth <a href="#">here</a> , 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.
<b>3</b>	Viewpoint 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.	<b>Template deployment is intended for advanced users only.</b> 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.
<b>4</b>	Server Management Done	✓	<b>Terms of use</b>	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-
<b>5</b>	Teradata Query Service Done	✓		
<b>6</b>	Data Stream Controller Done	✓		
<b>7</b>	Ecosystem Manager Done	✓		
<b>8</b>	Data Mover Done	✓		

**Create**

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

Create Teradata Vantage		X	Create	<input type="checkbox"/> >
1	Basics 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.	
2	Teradata Database Done	✓	Current retail prices for Azure resources are set forth <a href="#">here</a> and may not reflect discounts applicable to your Azure subscription.	
3	Viewpoint Done	✓	Prices for Marketplace offerings are set forth <a href="#">here</a> , 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.	
4	Server Management 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.	
5	Teradata Query Service Done	✓	<b>Template deployment is intended for advanced users only.</b> 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.	
6	Data Stream Controller Done	✓	<b>Terms of use</b>	
7	Ecosystem Manager 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-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 <a href="#">Azure Marketplace Terms</a> for additional terms.	
8	Data Mover	✓	<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.	

**Create**

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:

**Teradata** Resource group

Overview

Activity log

Access control (IAM)

Tags

Events

Settings

- Quickstart
- Resource costs
- Deployments
- Policies
- Properties
- Locks
- Automation script

Monitoring

- Insights (preview)
- Alerts
- Metrics
- Diagnostic settings

**Essentials**

NAME	TYPE	LOCATION	...
diagu4g5ts3756rgy	Storage account	France Central	...
quipjote-as	Availability set	France Central	...
quipjote-nic00	Network interface	France Central	...
quipjote-nsq	Network security group	France Central	...
quipjote-vm0	Virtual machine	France Central	...
quipjote-vm0-osdisk	Disk	France Central	...
viewpoint-nic10	Network interface	France Central	...
viewpoint-nsq	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	...

**Teradata Vantage. There is one single node (vm0) as we defined during the creation process.**

### 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.

**quipjote-vm0** Virtual machine

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Disks

Size

Security

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  
quipjote-vm0

Operating system  
Linux

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

Public IP address

Virtual network/subnet  
vnet-teradata/vmsubnet

DNS name  
-

Tags (change)

component : database instanceType : database

viewpoint-vm0

Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop Capture Delete Refresh

Overview

Advisor (1 of 2): Enable virtual machine backup to protect your data from corruption and accidental deletion →

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

Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Networking Disks Size Security

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”.

Preview Microsoft Azure Report a bug

Create a resource

Home Dashboard All services FAVORITES All resources

Search (Ctrl+,)

viewpoi Virtual machir

Overview Activity log Access contr

Search for “Public IP address”.

The screenshot shows the Azure portal interface. At the top, there's a navigation bar with 'Home > New'. Below it, a search bar contains the text 'Public IP address'. Underneath the search bar, there's a section titled 'Get started' featuring a 'Windows Server 2016 VM' card with a 'Quickstart tutorial' link. Another section below it is 'Recently created'. On the left, there's a sidebar with the title 'Everything' and a search bar. The main area displays search results for 'Public IP address' with three items listed:

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

A red arrow points to the first item, 'Public IP address'.

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  
quijsote-ip ✓

\* SKU i  
 Basic  Standard

\* IP Version i  
 IPv4  IPv6

\* IP address assignment  
 Dynamic  Static

\* Idle timeout (minutes) i  
 4

DNS name label i  
quijsote ✓  
.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

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

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with 'Preview', the 'Microsoft Azure' logo, 'Report a bug', and a search bar containing 'Search resources, services...'. Below the search bar, a message says 'Choose your default view' with a blue circular icon. On the left, a sidebar lists 'Create a resource' (with a green plus icon), 'Home' (with a blue house icon), 'Dashboard' (with a blue dashboard icon), 'All services' (with a blue grid icon), 'FAVORITES' (with a yellow star icon), 'All resources' (with a green grid icon), and 'Resource groups' (with a blue cube icon). A large orange arrow points from the 'Create a resource' button towards the search bar. To the right, under 'Azure services', there are icons for 'Virtual machines' (monitor icon), 'Storage accounts' (bar chart icon), and 'Cognitive' (cloud icon). There's also a link 'See all (+100) >'.

Search for “Public IP address”.

The screenshot shows the 'New' search results page. At the top, there's a breadcrumb trail 'Home > New' and a search bar with the text 'Public IP address'. Below the search bar, a list of results is shown, with the first item being 'Public IP address' (with 'Azure Marketplace' and 'Search' options). On the left, there are links for 'Get started' and 'Recently created'. On the right, there's a section for 'Windows Server 2016 VM' featuring a Windows logo and a 'Quickstart tutorial' link.

**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.

[!\[\]\(3353c60d795135bab8e7bdea7de5fe10\_img.jpg\) 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:

Select quijote-ip and click on “Associate”.

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

The screenshot shows two overlapping windows from the Azure portal:

- Associate public IP address (Left Window):** This window is titled "Associate public IP address" and has a subtitle "quipjote-ip". It contains a message: "Choose the resource to which you want to associate this public IP address." Below this is a dropdown menu labeled "Resource type" with "Network interface" selected. A red box highlights this selection.
- Choose network interface (Right Window):** This window is titled "Choose network interface". It displays a list of network interfaces:
  - "quipjote-nic00" (Teradata) - This item is highlighted with a red box.
  - "viewpoint-nic10" (Teradata)A message at the top right of this window reads: "These are the network interfaces in the selected subscription and location 'France Central'."

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'. The left sidebar lists navigation 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 the 'Essentials' section for the resource group 'Teradata', which is located in 'France Central'. It shows the subscription name 'Consumo interno de Microsoft Azure', the subscription ID '53d1ee67-5e22-4dbc-976d-577a64136087', and the IP address 'viewpoint.francecentral.cloudapp.azure.com'. The 'SKU' is listed as 'Basic'. The 'Associate' button, which is highlighted with a red box, is used to link the IP address to a network interface.

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

The screenshot shows two overlapping dialog boxes. The left dialog is titled 'Associate public IP address' for the resource 'viewpoint-ip'. It has a dropdown menu labeled 'Resource type' with 'Network interface' selected. The right dialog is titled 'Choose network interface' and lists network interfaces from the selected subscription and location. It shows two entries: 'quijote-nic00' and 'viewpoint-nic10'. The 'viewpoint-nic10' entry is highlighted with a red box. A message in the top right of the right dialog states: 'These are the network interfaces in the selected subscription and location 'France Central''. Both dialogs have an 'OK' button at the bottom right.

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 ▼

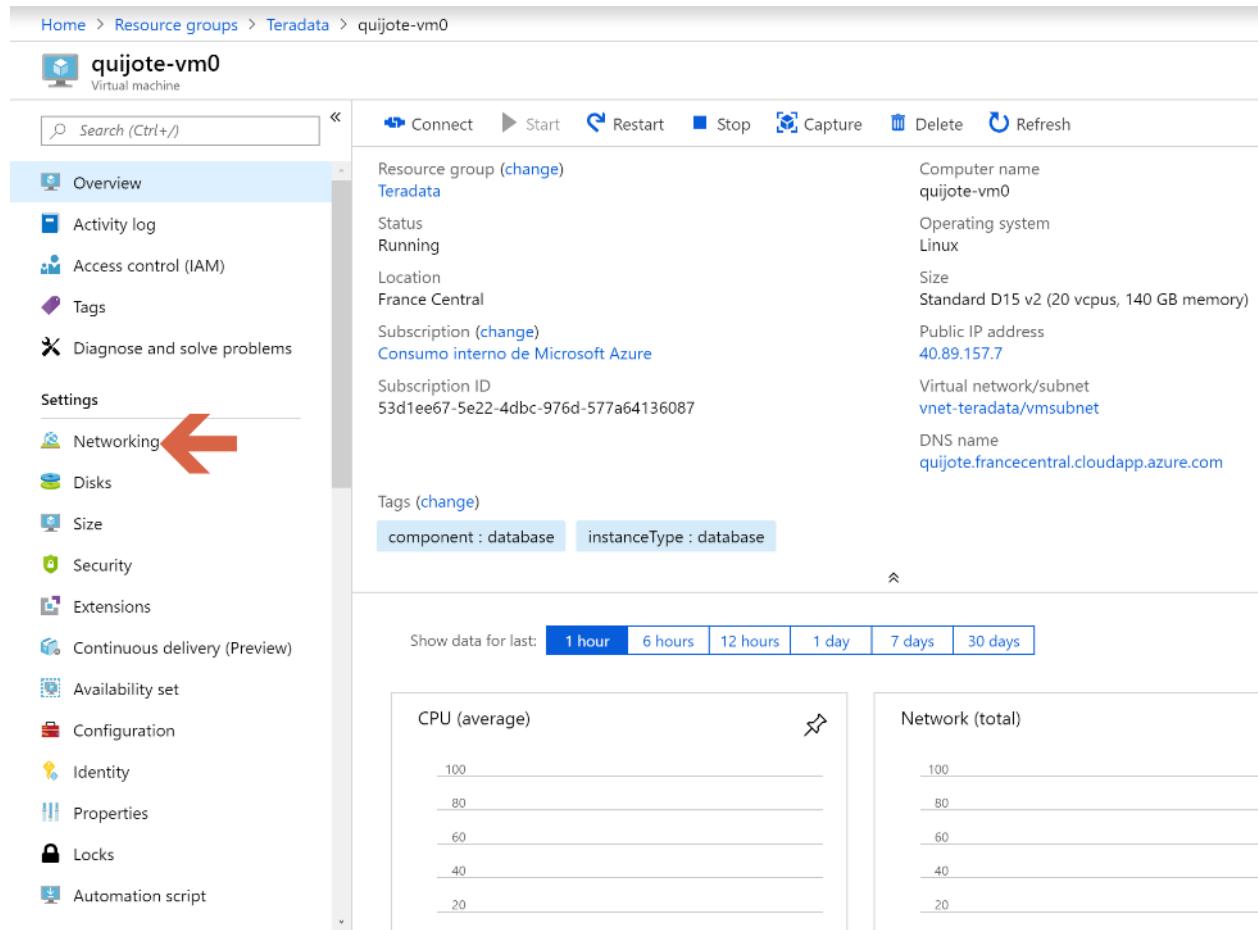
\* Network interface >  
viewpoint-nic10



**OK**

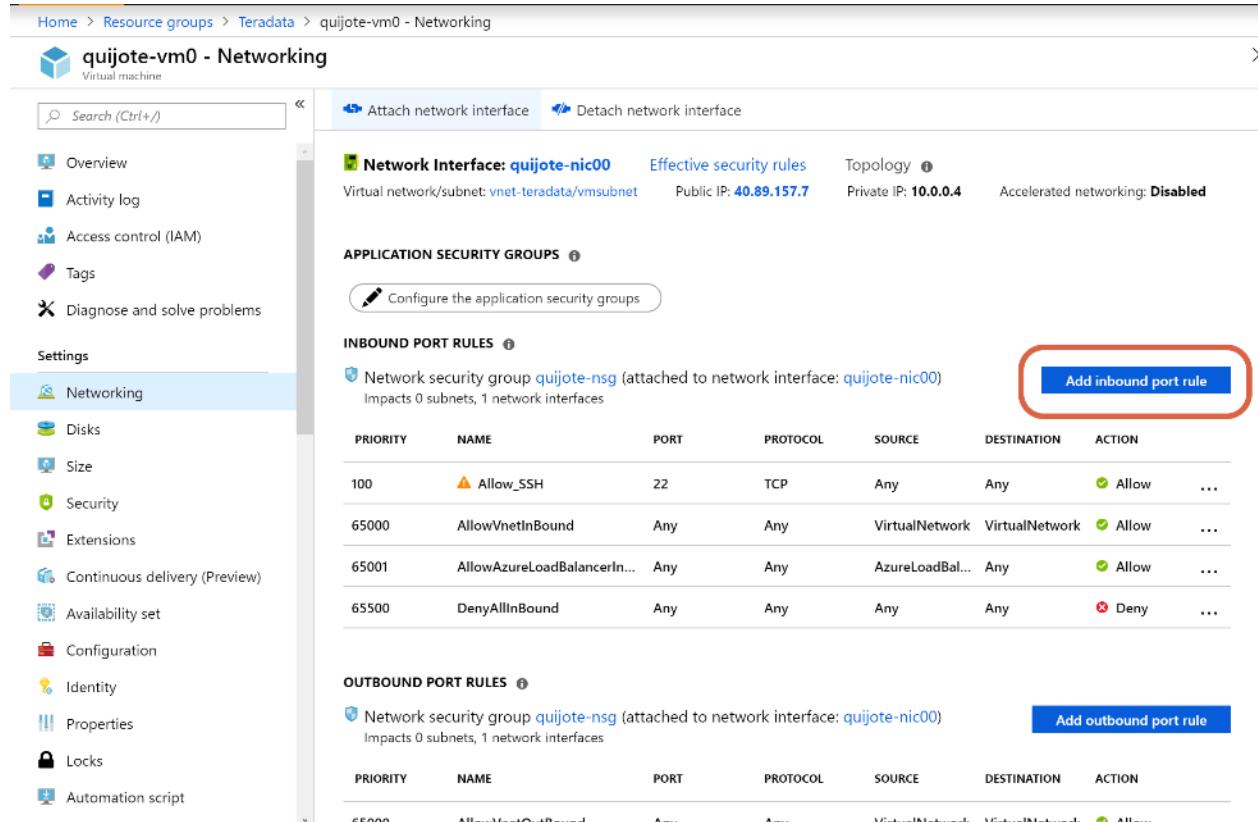
#### 4. Connect to Teradata Vantage with Teradata Studio Express

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



The screenshot shows the Azure portal interface for a virtual machine named 'quiijote-vm0'. The left sidebar lists various settings like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking (highlighted with a red arrow), Disks, Size, Security, Extensions, Continuous delivery (Preview), Availability set, Configuration, Identity, Properties, Locks, and Automation script. The main pane displays the VM's details under the 'Teradata' resource group. It shows the computer name as 'quiijote-vm0', operating system as Linux, size as Standard D15 v2 (20 vcpus, 140 GB memory), public IP address as 40.89.157.7, and DNS name as quiijote.francecentral.cloudapp.azure.com. The 'Networking' section also includes a 'Tags (change)' section with filters for component: database and instanceType: database, and a performance monitoring section showing CPU (average) and Network (total) usage over the last 1 hour.

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



The screenshot shows the 'Networking' settings for the 'quiijote-vm0' VM. The left sidebar is identical to the previous screenshot. The main pane shows the 'Network Interface: quiijote-nic00' with its details: Virtual network/subnet: vnet-teradata/vmsubnet, Public IP: 40.89.157.7, Private IP: 10.0.0.4, and Accelerated networking: Disabled. Under the 'INBOUND PORT RULES' section, there is a table with columns: PRIORITY, NAME, PORT, PROTOCOL, SOURCE, DESTINATION, and ACTION. A new rule is being added, indicated by the 'Add inbound port rule' button, which is highlighted with a red box. The table currently contains five rules:

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
100	Allow_SSH	22	TCP	Any	Any	<input checked="" type="checkbox"/> Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	<input checked="" type="checkbox"/> Allow
65001	AllowAzureLoadBalancerIn...	Any	Any	AzureLoadBal...	Any	<input checked="" type="checkbox"/> Allow
65500	DenyAllInBound	Any	Any	Any	Any	<input checked="" type="checkbox"/> Deny

Under the 'OUTBOUND PORT RULES' section, there is a table with a single row:

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	<input checked="" type="checkbox"/> Allow

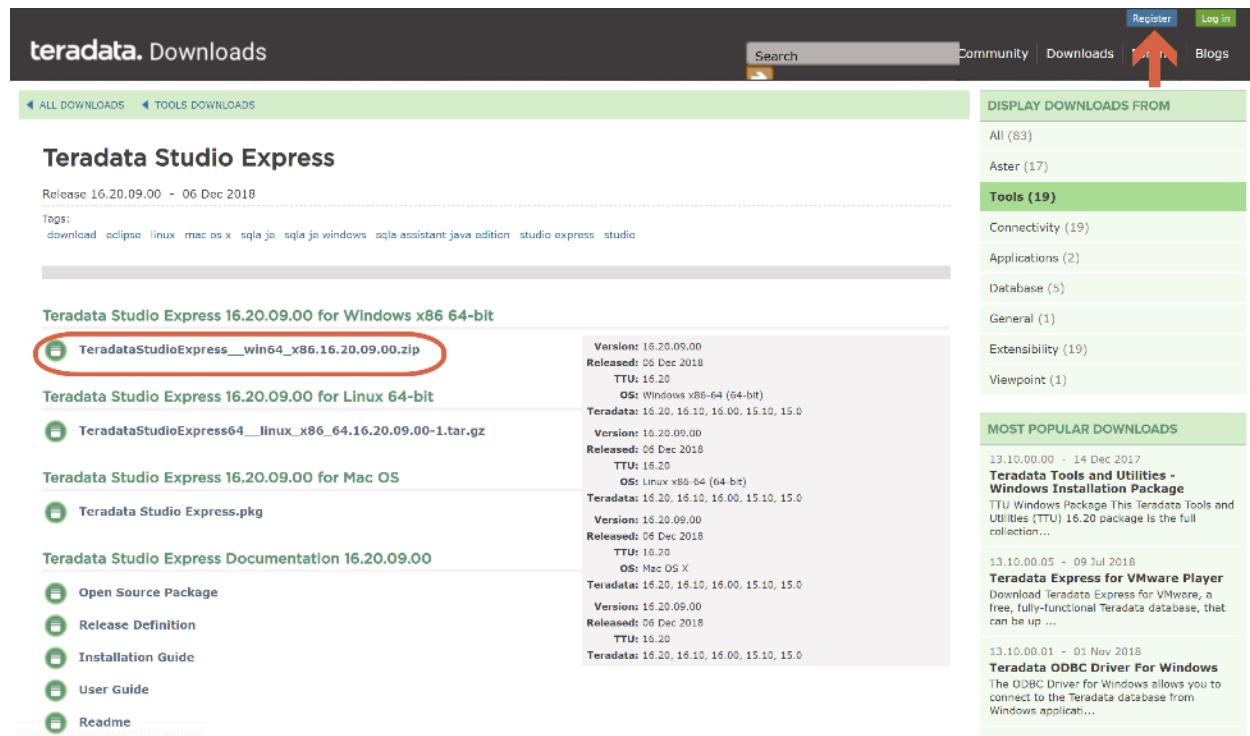
We open port 1025 for protocol TCP.

The screenshot shows the 'Add inbound security rule' dialog box. The configuration is as follows:

- Source:** Any
- Source port ranges:** \*
- Destination:** Any
- Destination port ranges:** 1025
- Protocol:** TCP
- Action:** Allow
- Priority:** 110
- Name:** Port\_1025
- Description:** Port\_1025

A large orange arrow points downwards from the bottom of the form towards the 'Add' button.

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 right, there are buttons for 'Register' (highlighted with a red arrow) and 'Log in'. Below the header, there's a search bar and navigation links for 'Community', 'Downloads', and 'Blogs'. A sidebar on the right lists categories like 'DISPLAY DOWNLOADS FROM' (All 83), 'Tools (19)', 'MOST POPULAR DOWNLOADS', and specific items like 'Teradata Tools and Utilities - Windows Installation Package'.

**Teradata Studio Express**

Release 16.20.09.00 - 06 Dec 2018

Tags: download, eclipse, linux, mac os x, sqla, sqla java, sqla windows, sqla assistant, java edition, studio express, studio

**Teradata Studio Express 16.20.09.00 for Windows x86 64-bit**

[TeradataStudioExpress\\_\\_win64\\_x86.16.20.09.00.zip](#)

**Teradata Studio Express 16.20.09.00 for Linux 64-bit**

[TeradataStudioExpress64\\_\\_linux\\_x86\\_64.16.20.09.00-1.tar.gz](#)

**Teradata Studio Express 16.20.09.00 for Mac OS**

[Teradata Studio Express.pkg](#)

**Teradata Studio Express Documentation 16.20.09.00**

[Open Source Package](#)  
[Release Definition](#)  
[Installation Guide](#)  
[User Guide](#)  
[Readme](#)

Version: 16.20.09.00  
Released: 06 Dec 2018  
TTU: 16.20  
OS: Windows x86-64 (64-bit)  
Teradata: 16.20, 16.10, 16.00, 15.10, 15.0

Version: 16.20.09.00  
Released: 06 Dec 2018  
TTU: 16.20  
OS: Linux x86-64 (64-bit)  
Teradata: 16.20, 16.10, 16.00, 15.10, 15.0

Version: 16.20.09.00  
Released: 06 Dec 2018  
TTU: 16.20  
OS: Mac OS X  
Teradata: 16.20, 16.10, 16.00, 15.10, 15.0

Version: 16.20.09.00  
Released: 06 Dec 2018  
TTU: 16.20  
Teradata: 16.20, 16.10, 16.00, 15.10, 15.0

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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10. **Confidentiality.** You will not disclose the results of any testing or evaluations, including any benchmarks, insofar as it relates to the Software without Teradata's prior written consent.

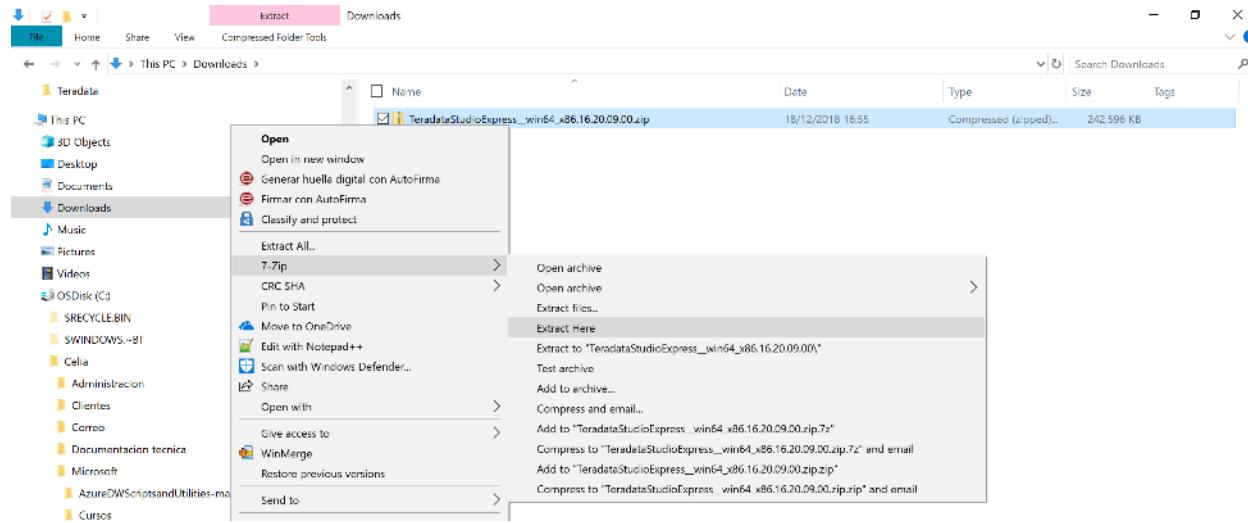
11. **Entire Agreement.** This Agreement and the terms of use for the site from which you downloaded the Software ("General Terms of Use") constitute the entire understanding of the parties with respect to the Software and Services, and supersede all other prior agreements and understandings whether oral or written. In the event of a conflict between this Agreement and the General Terms of Use, this Agreement will prevail with respect to the subject matter hereof. No oral representation or change to this Agreement will be binding upon either party unless agreed to in writing and signed by authorized representatives of all parties. You will not assign this Agreement or your rights, nor will you delegate your obligations under this Agreement. Failure by either party to enforce any term or condition of this Agreement will not be deemed a waiver of future enforcement of that or any other term or condition. The provisions of this Agreement are severable. "Include", "includes", and "including" shall be interpreted as introducing a list of examples which do not limit the generality of any preceding words or any words in the list of examples.

**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**

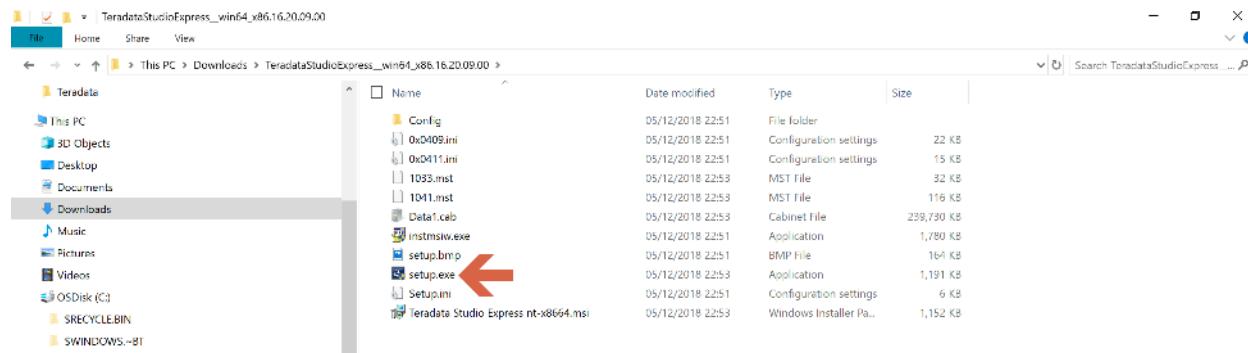
**Cancel**

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

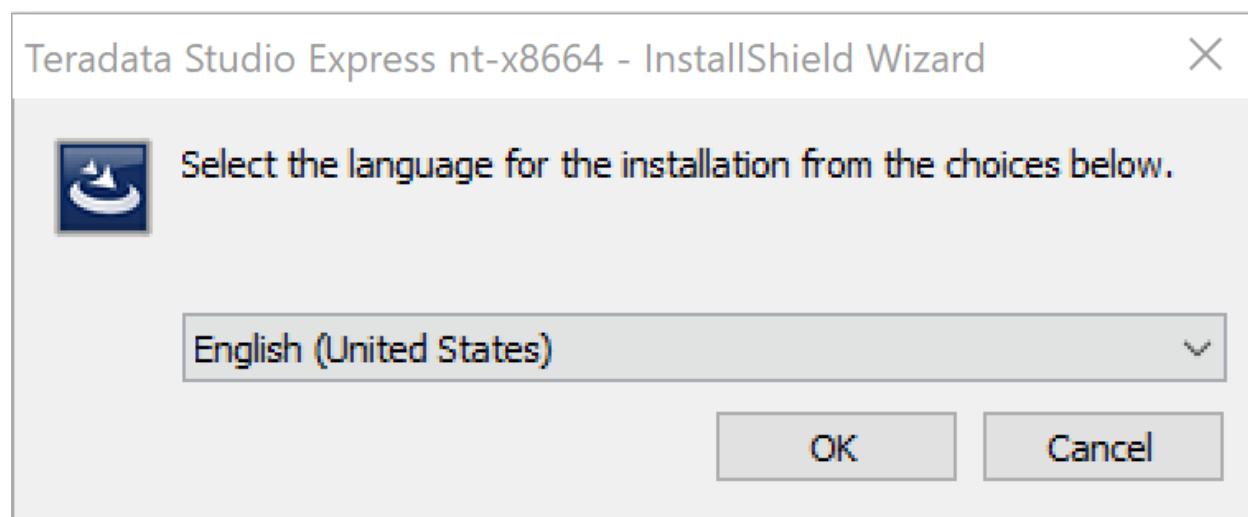


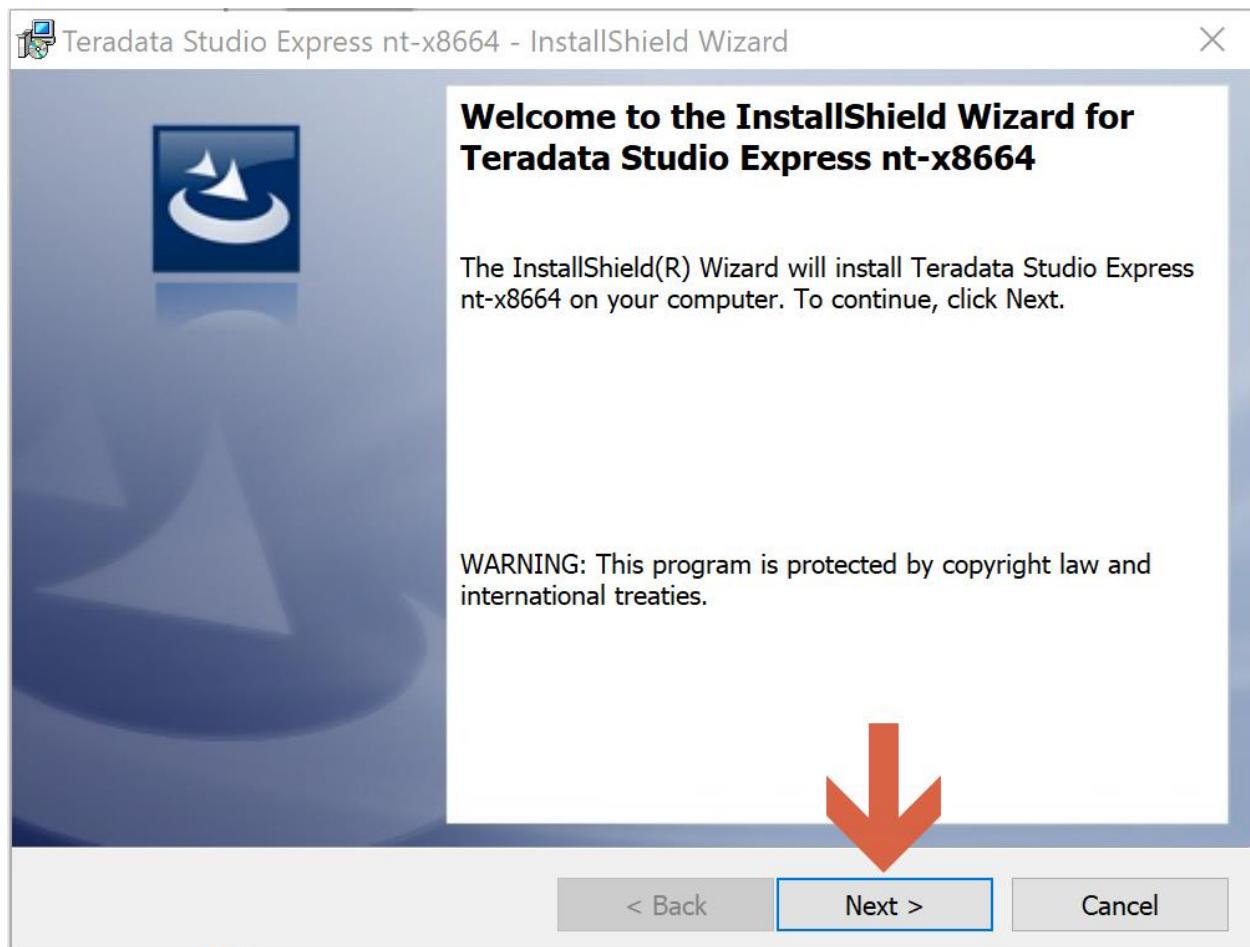
Teradata Studio Express is a Java client. If you don't have it yet, you need to install Java Runtime Environment (JRE).

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

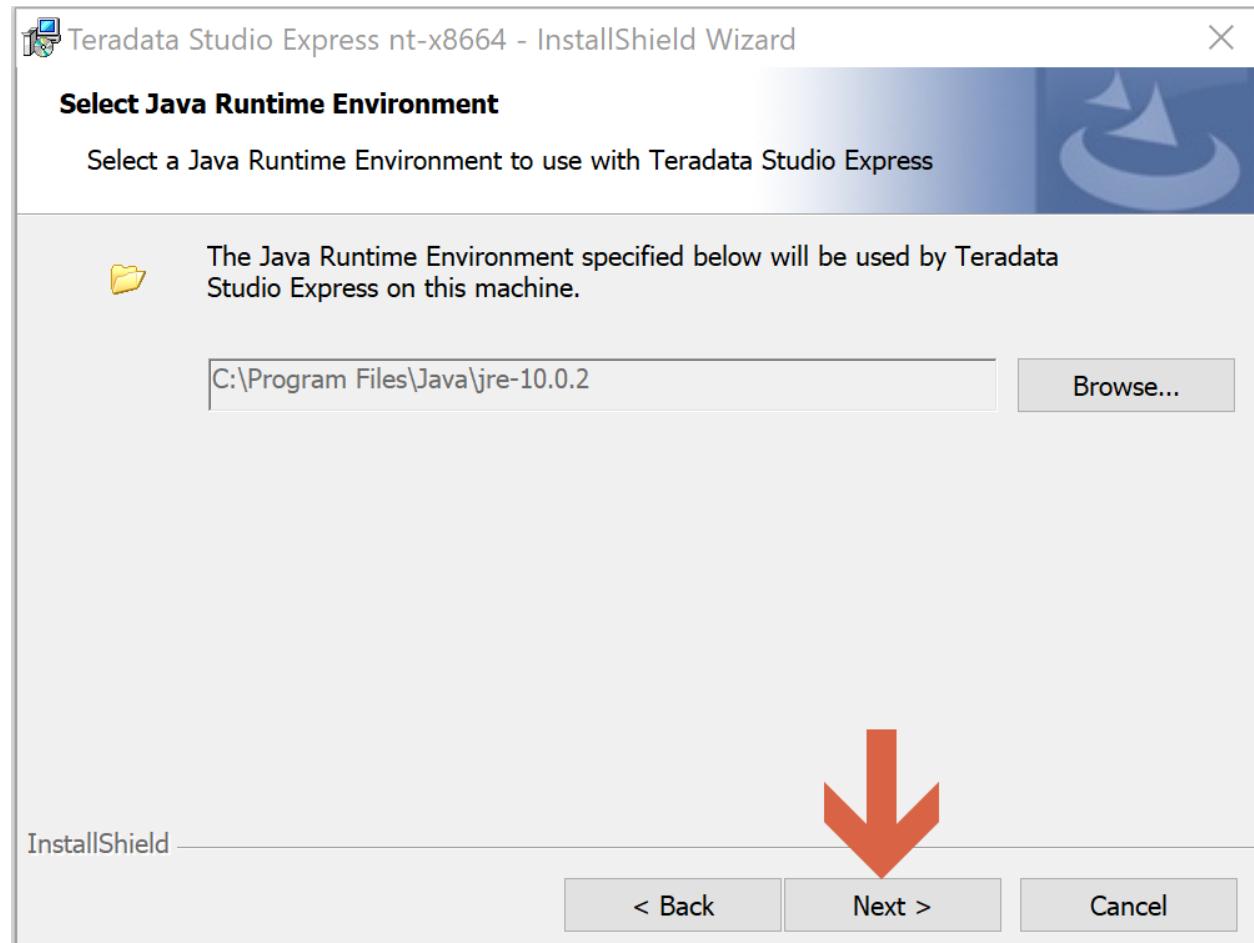


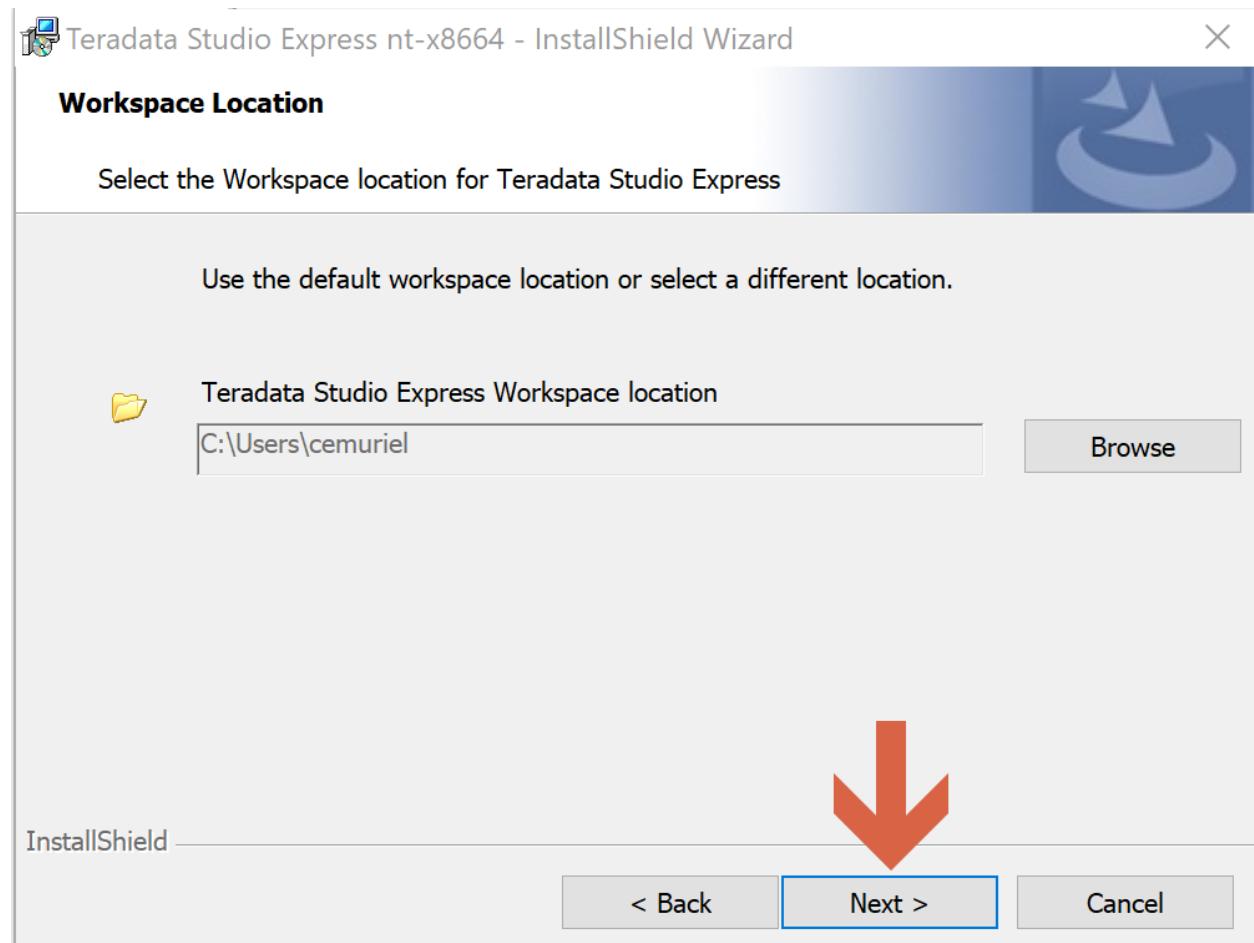
Run the program and follow the instructions.

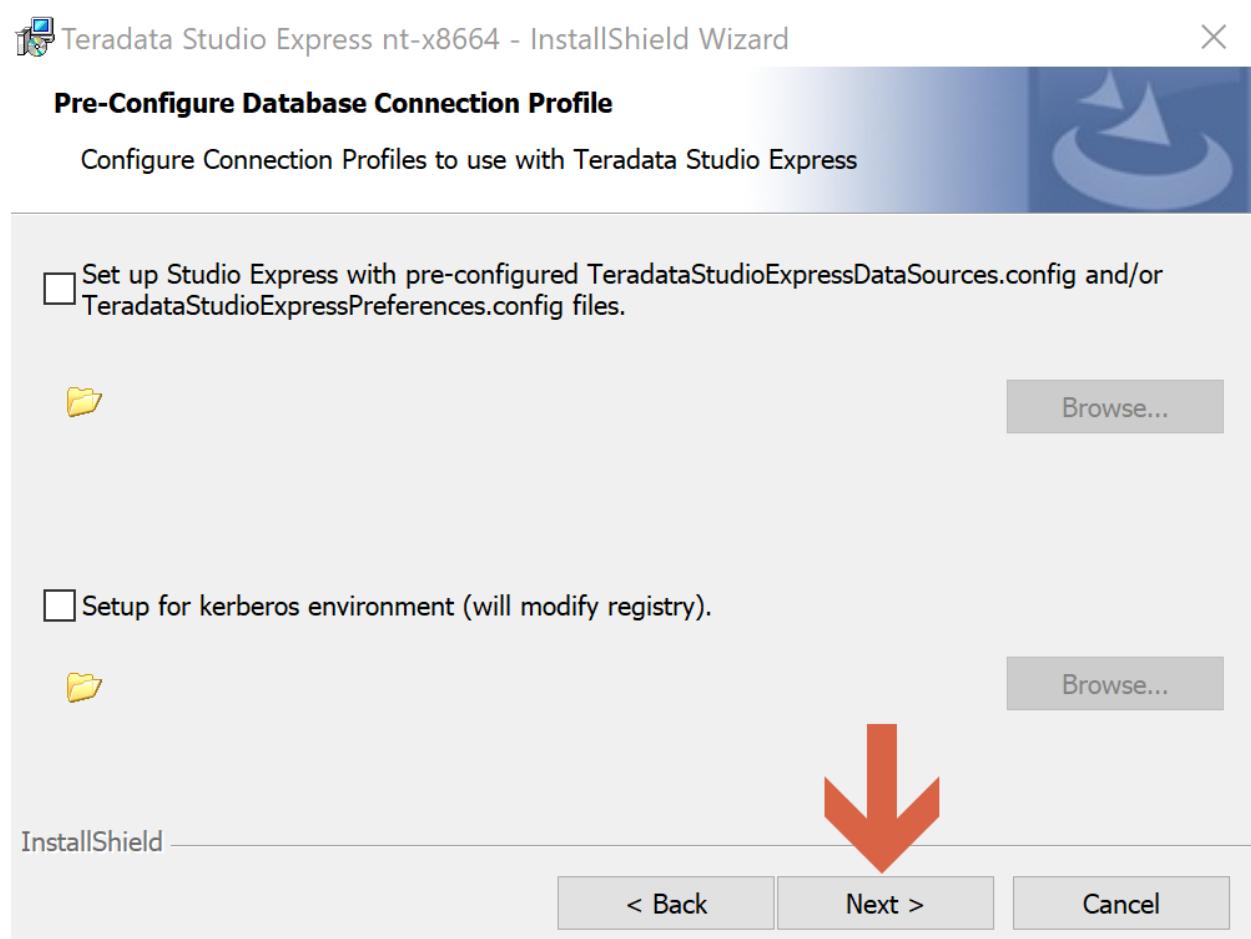


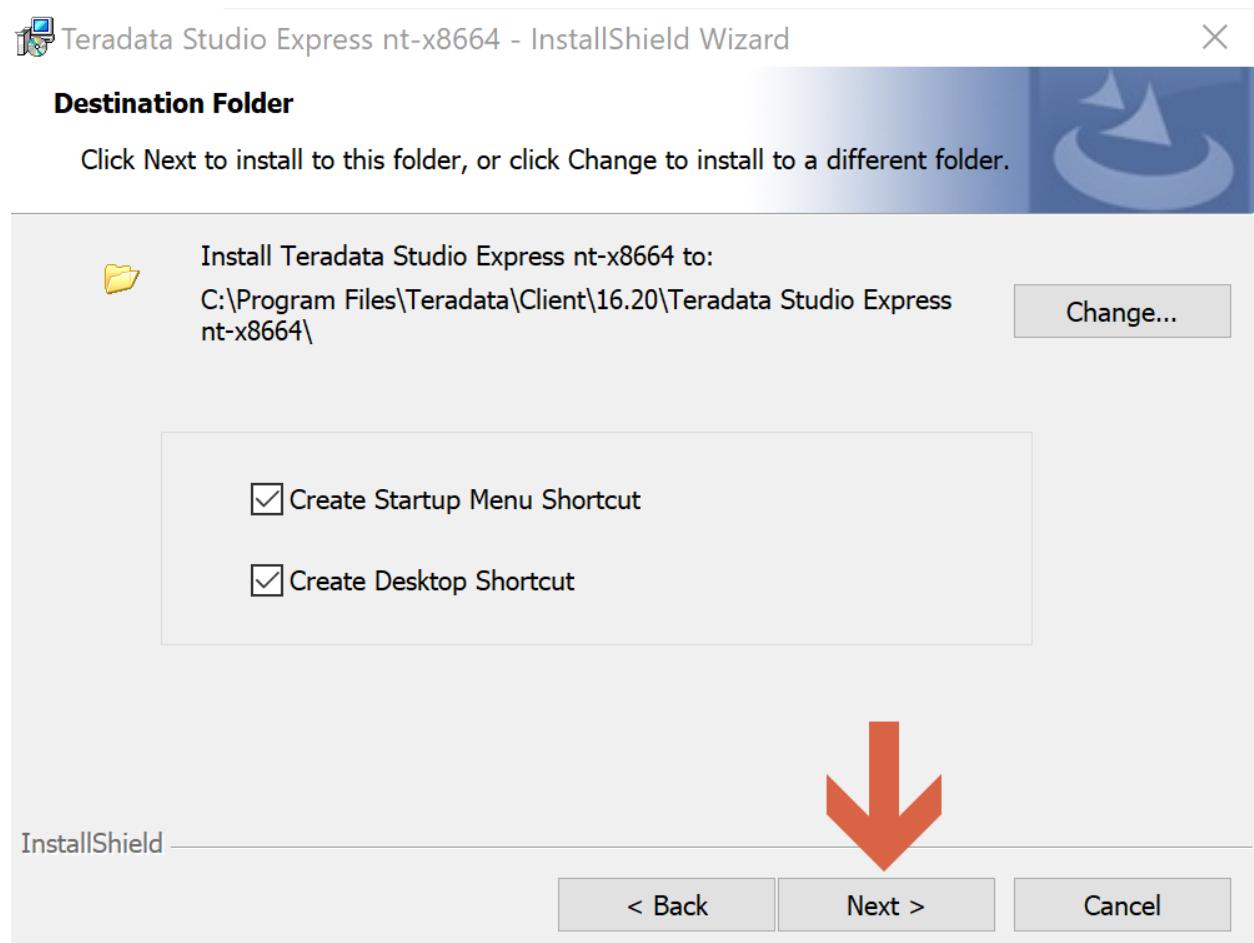


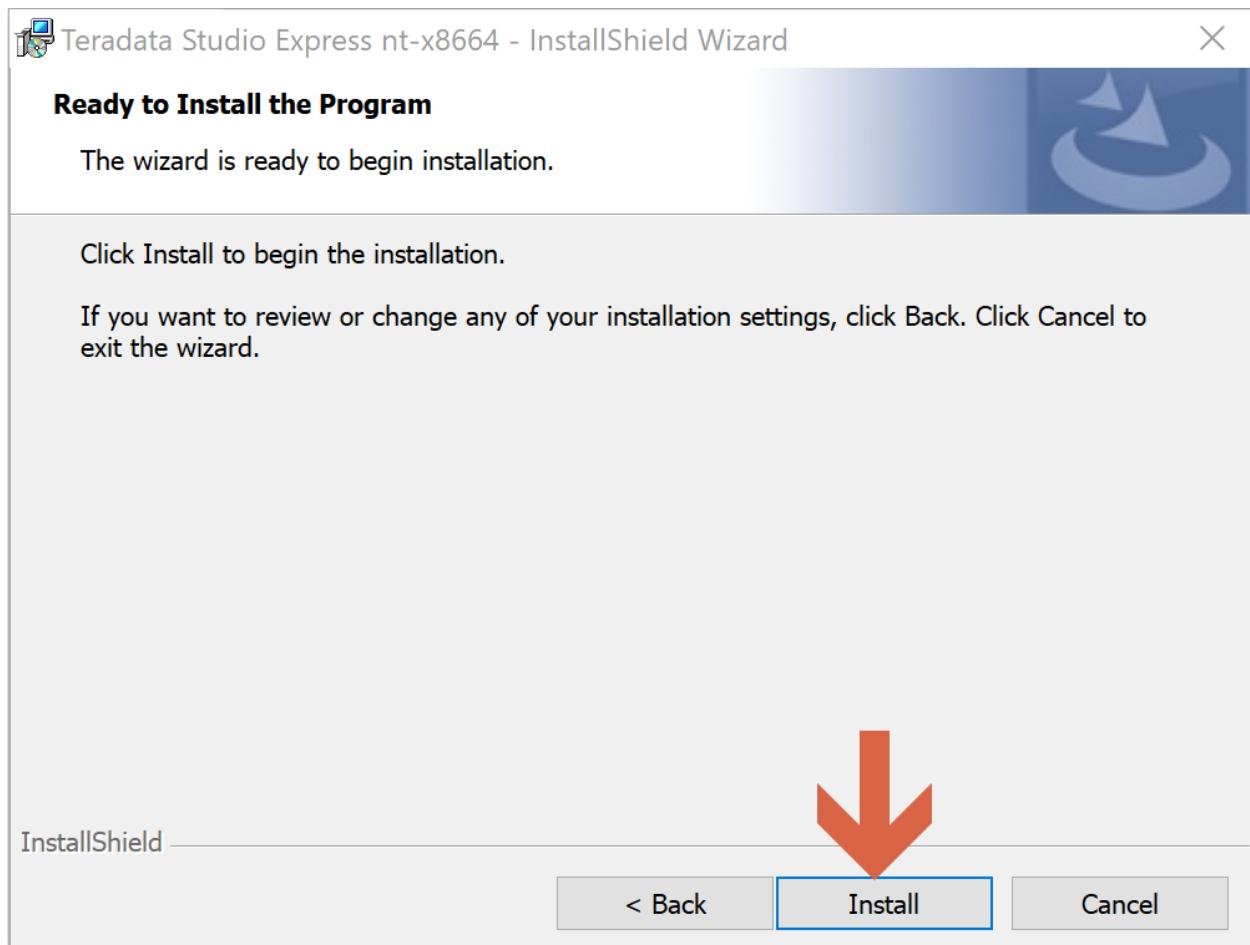






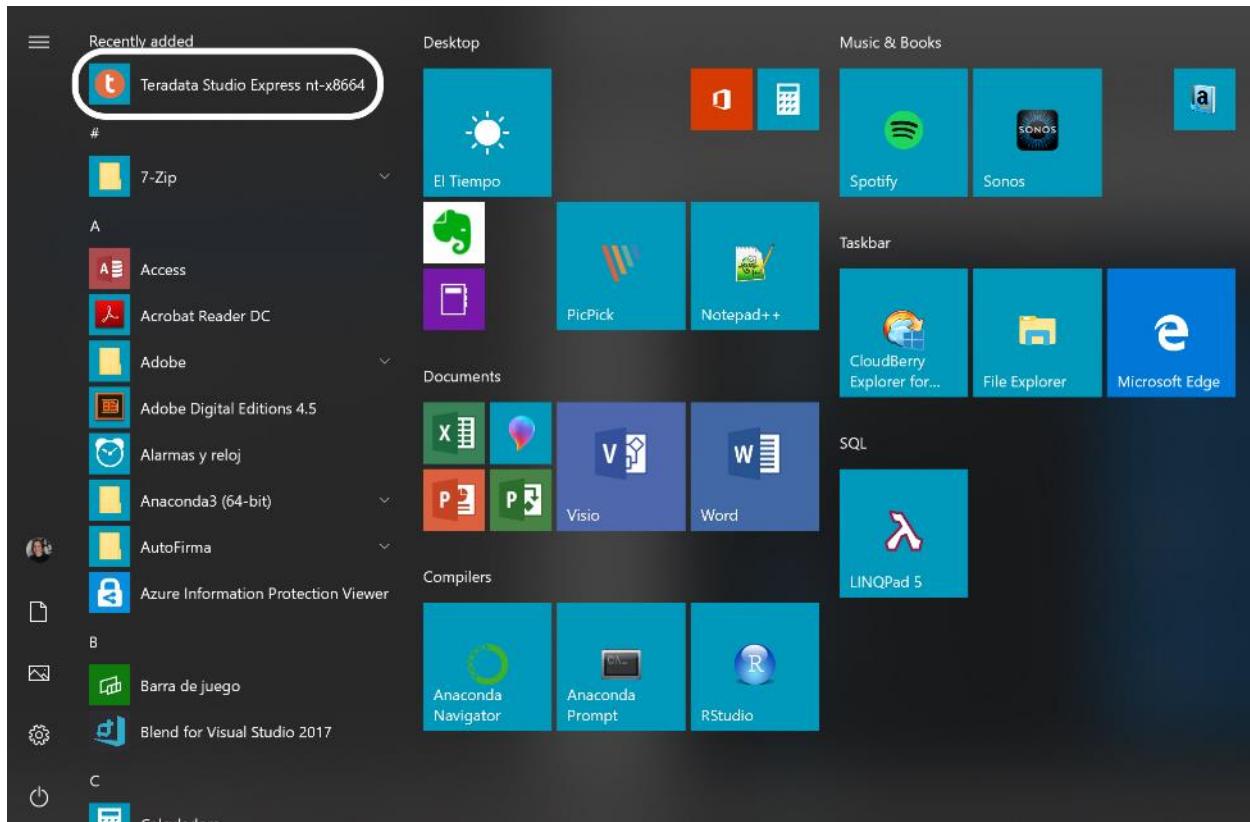








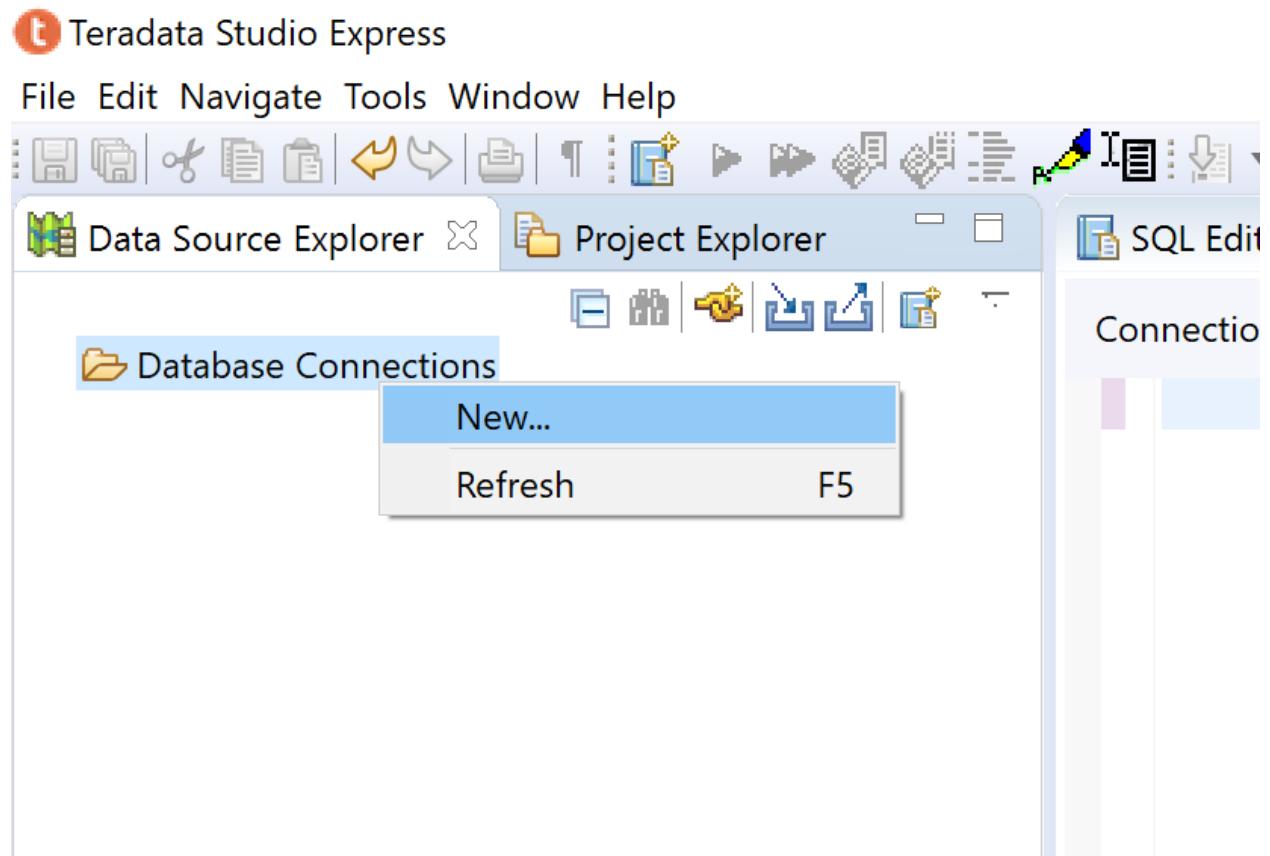
Teradata Studio Express is already installed on our laptop. We can already open it and connect to Teradata Vantage.



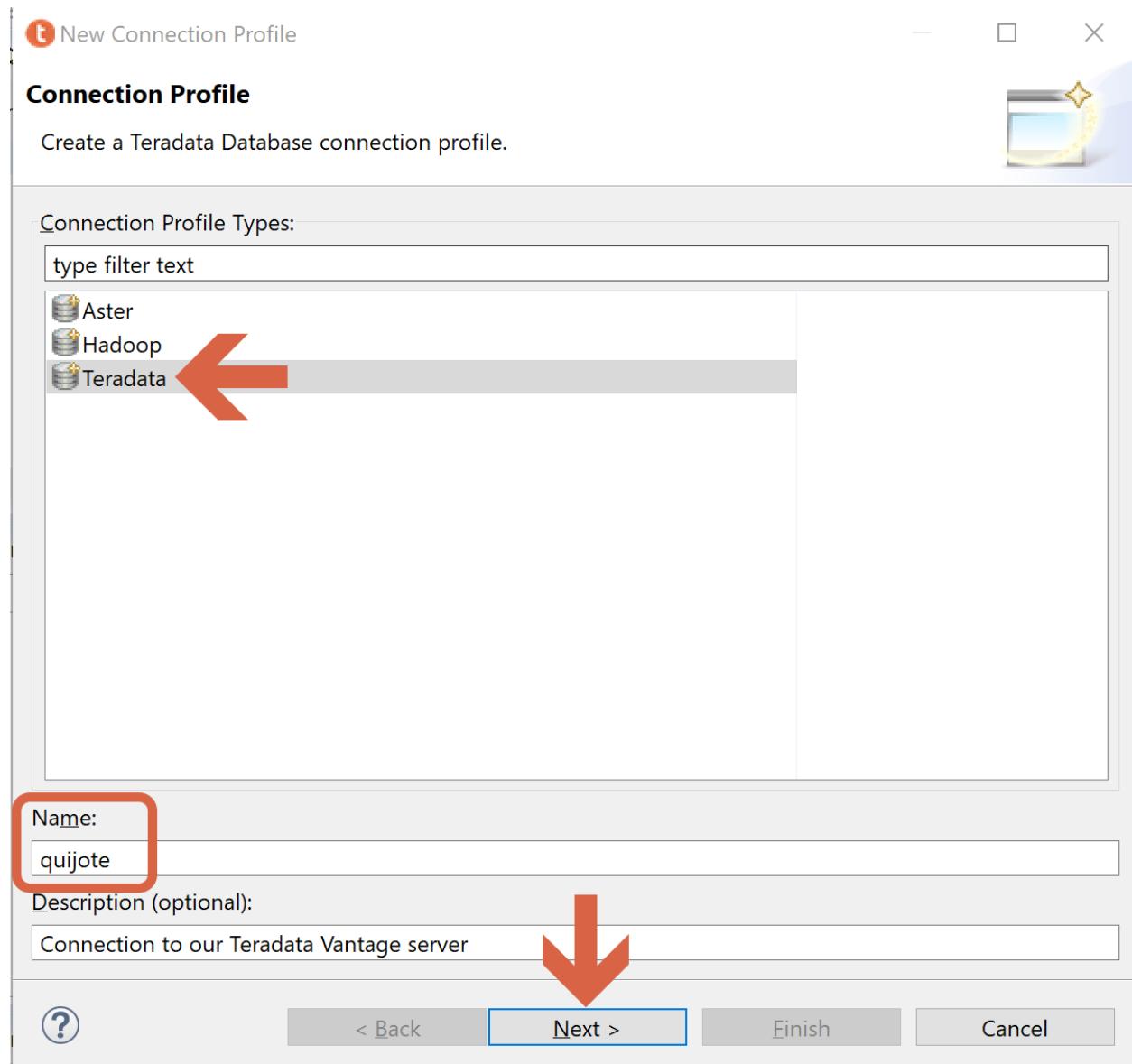
We go to the Teradata Vantage virtual machine in the Azure portal and take note of its IP address and DSN name.

The screenshot shows the Azure portal's VM details page for 'quijsote-vm0'. The left sidebar has 'Overview' selected. The main pane displays the VM's configuration, including its resource group ('Teradata'), status ('Running'), location ('France Central'), subscription ('Consumo interno de Microsoft Azure'), and subscription ID ('53d1ee67-5e22-4dbc-976d-577a64136087'). On the right, detailed information is shown for the VM, including its computer name ('quijsote-vm0'), operating system ('Linux'), size ('Standard D15 v2 (20 vcpus, 140 GB memory)'), and network settings. The 'Public IP address' (40.89.157.7) and 'DNS name' (quijsote.francecentral.cloudapp.azure.com) are highlighted with red boxes.

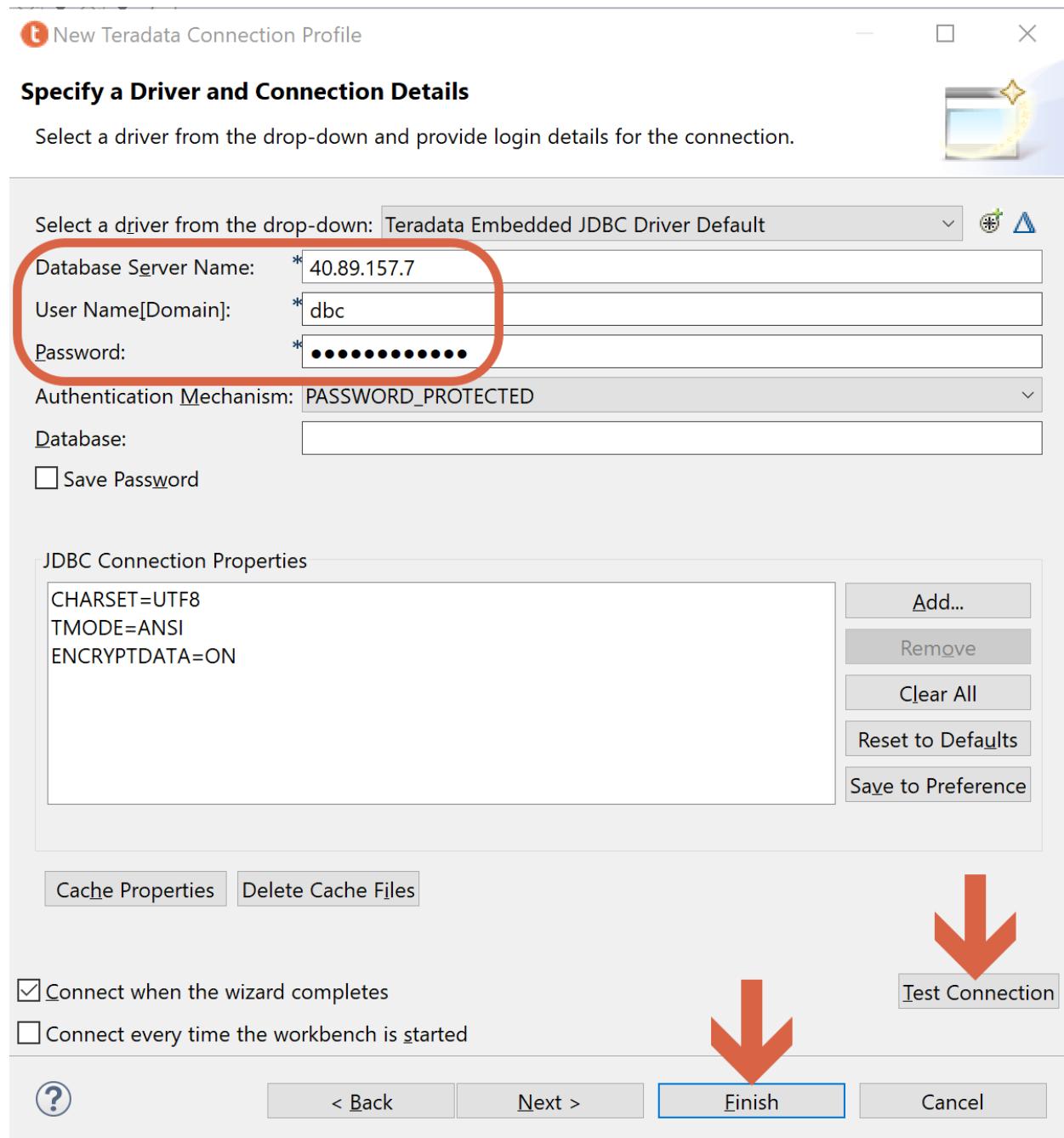
We come back to Teradata Studio Express, right-click on Database Connections, and click on New.



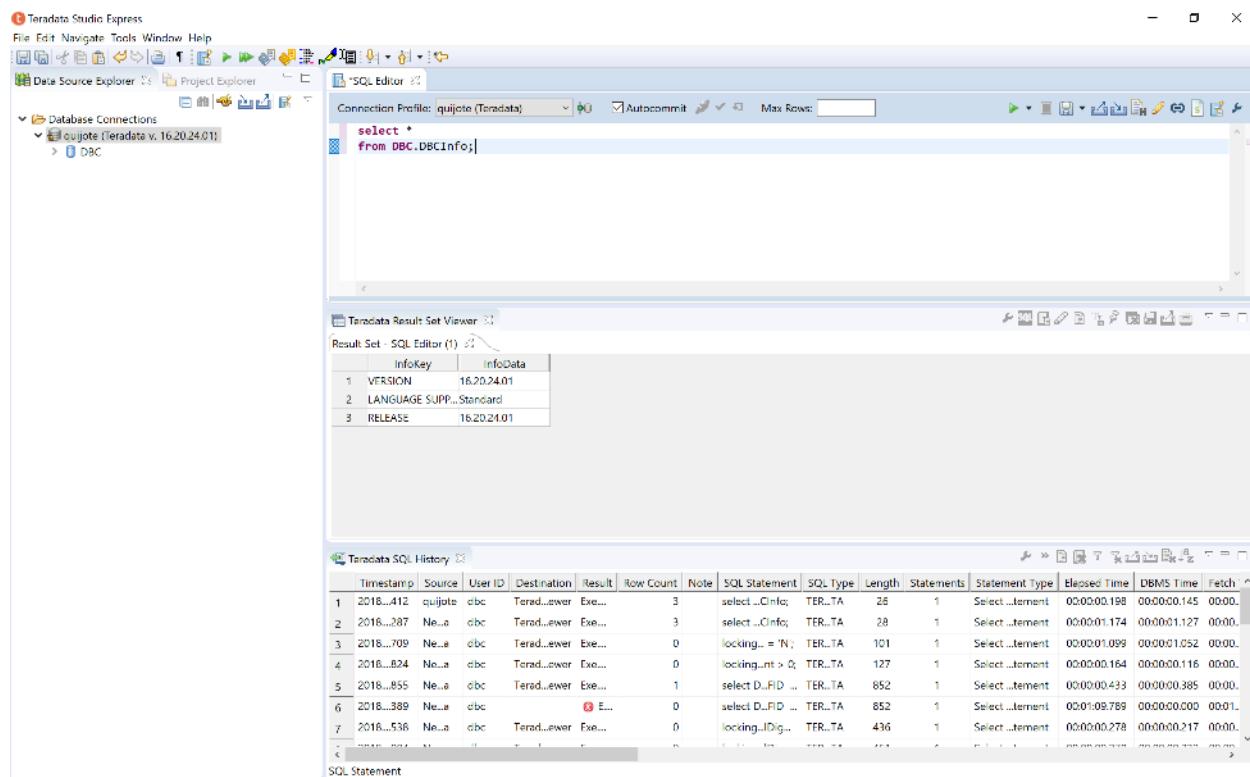
We select a Teradata connection.



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.**

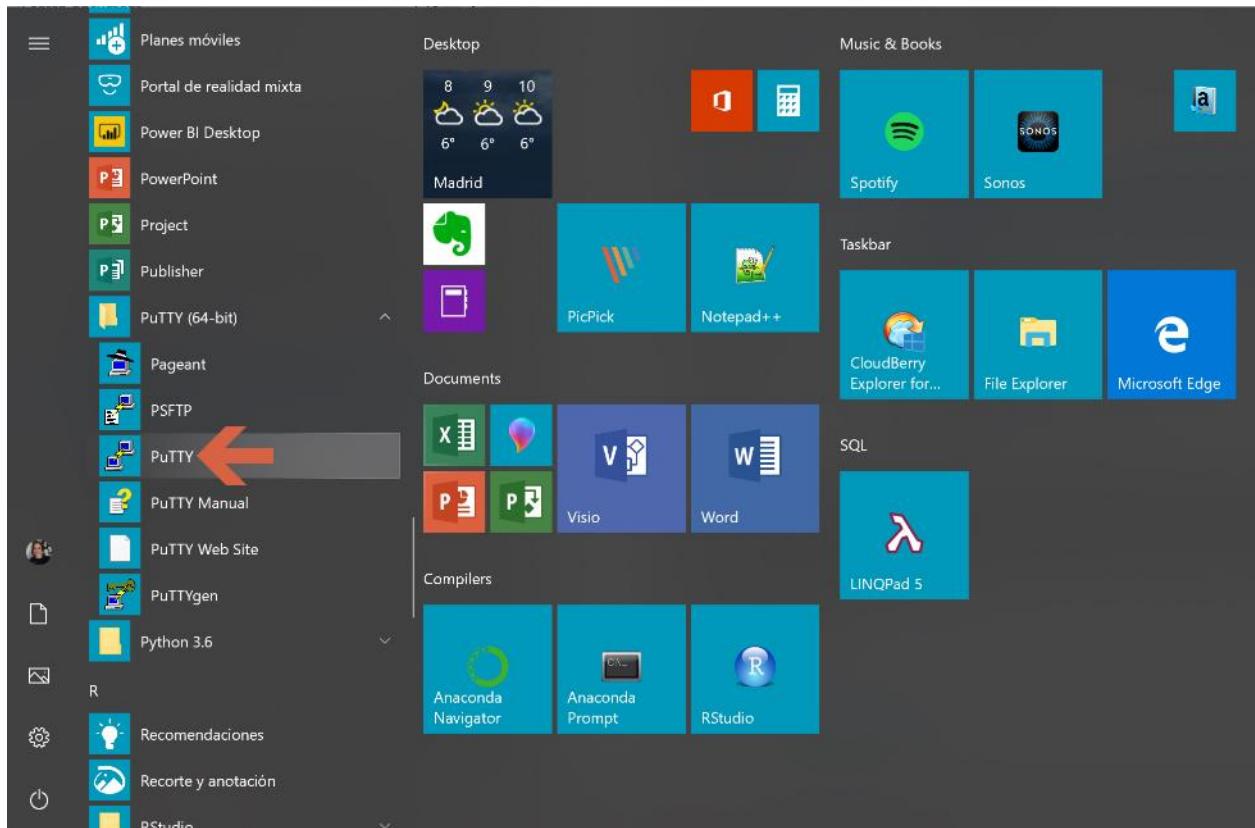
At the Azure portal, take note of the public IP address and the DNS name:

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

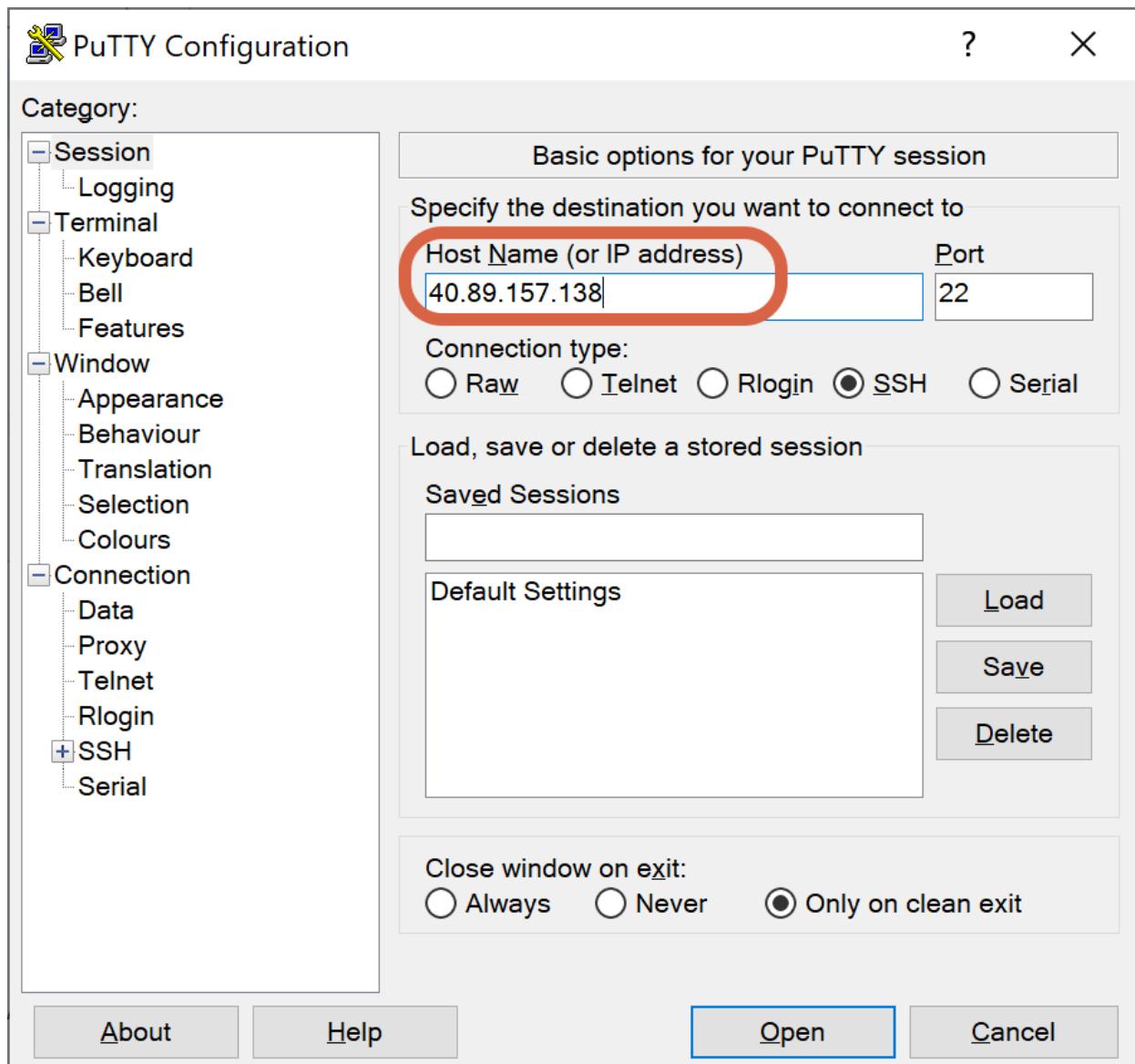
- Resource group:** Teradata
- Status:** Running
- Location:** France Central
- Subscription:** Consumo interno de Microsoft Azure
- Public IP address:** 40.89.157.138
- DNS name:** quiijote.francecentral.cloudapp.azure.com

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 in your computer, you can download it from [here](#).

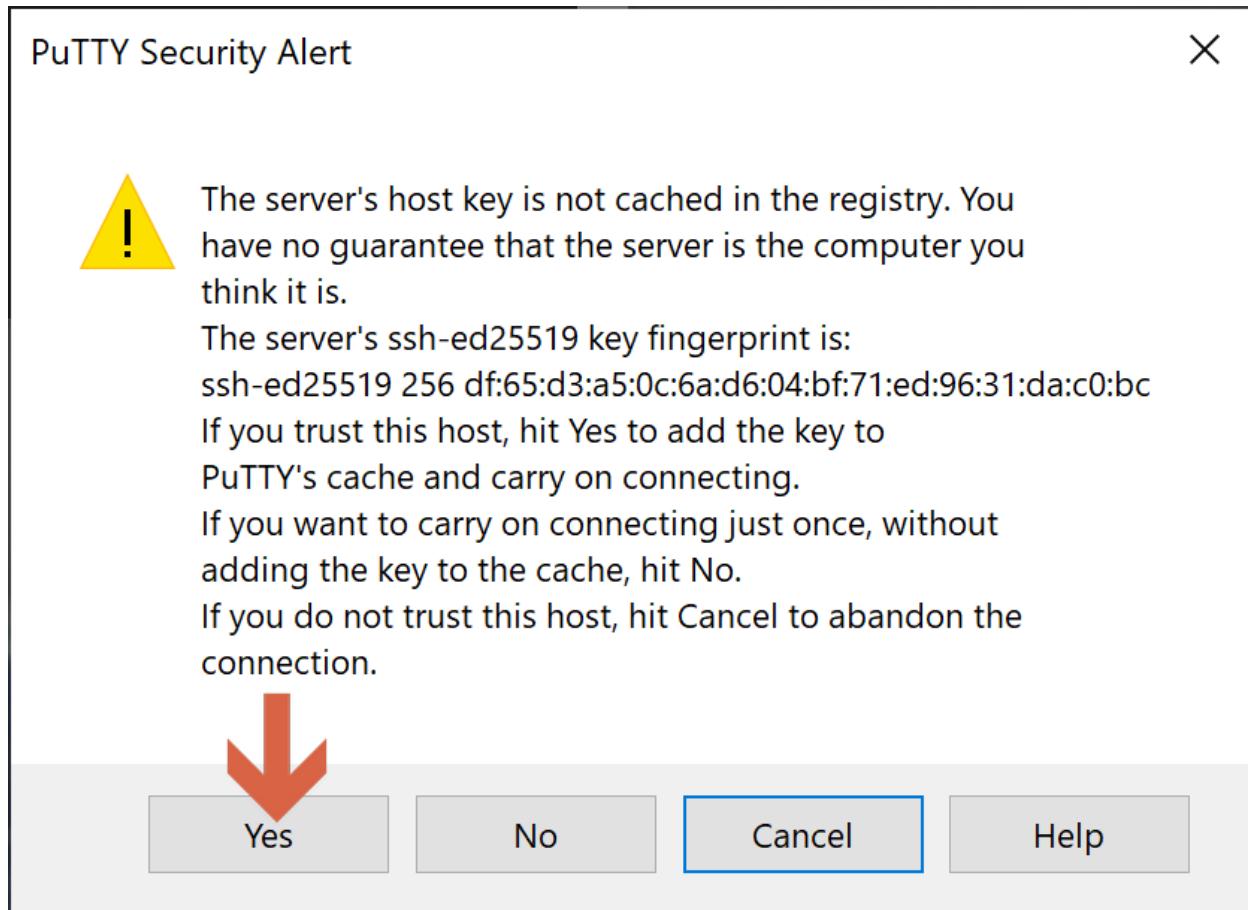
We open PuTTY.



Provide the Teradata node (quiijote-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 shows a login prompt: "login as: sanchopanza". Below it, it says "Using keyboard-interactive authentication." and "Password: █". The terminal window has standard window controls (minimize, maximize, close) at the top right.

```
40.89.157.138 - PuTTY
login as: sanchopanza
Using keyboard-interactive authentication.
Password: █
```

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

```
sanchopanza@qui jote001-01:~> sudo su -
sanchopanza's password:
qui jote001-01:~ #
```

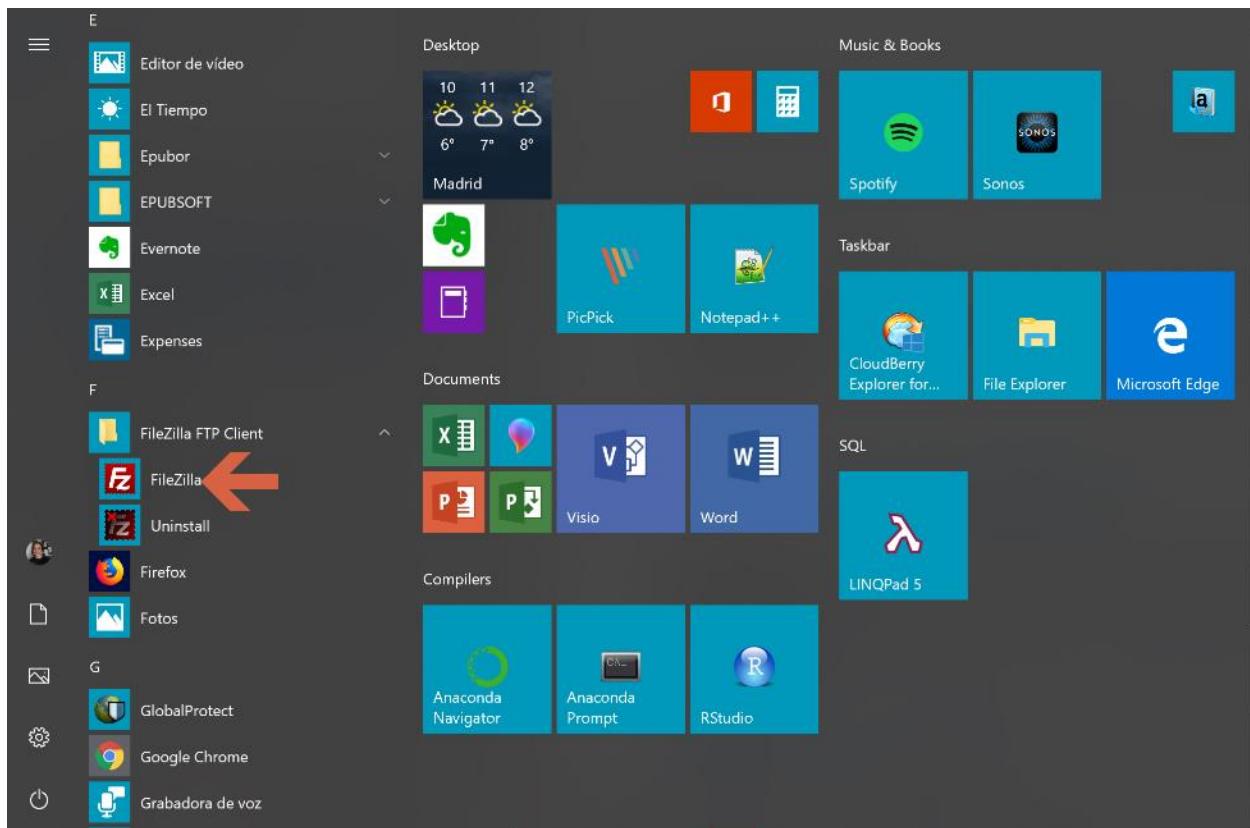
Go to the directory where the TTUs (Teradata clients) are: `cd /var/opt/teradata/`.

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

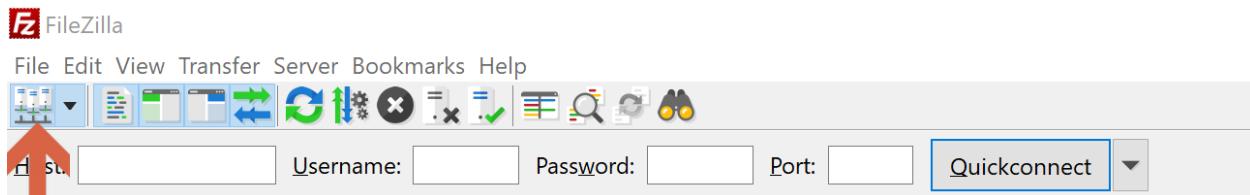
```
qui jote001-01:~ # cd /var/opt/teradata/ ←
qui jote001-01:/var/opt/teradata # chmod 777 TTU_pkgs/ ←
qui jote001-01:/var/opt/teradata # ls -ltr
total 31020
drwxr-xr-x  2 root      root          4096 Oct 21  2015 lldp
drwx-----  2 root      root          16384 Mar 15  2018 lost+found
drwx-----  4 root      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-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 pdeoplsrc_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](#).

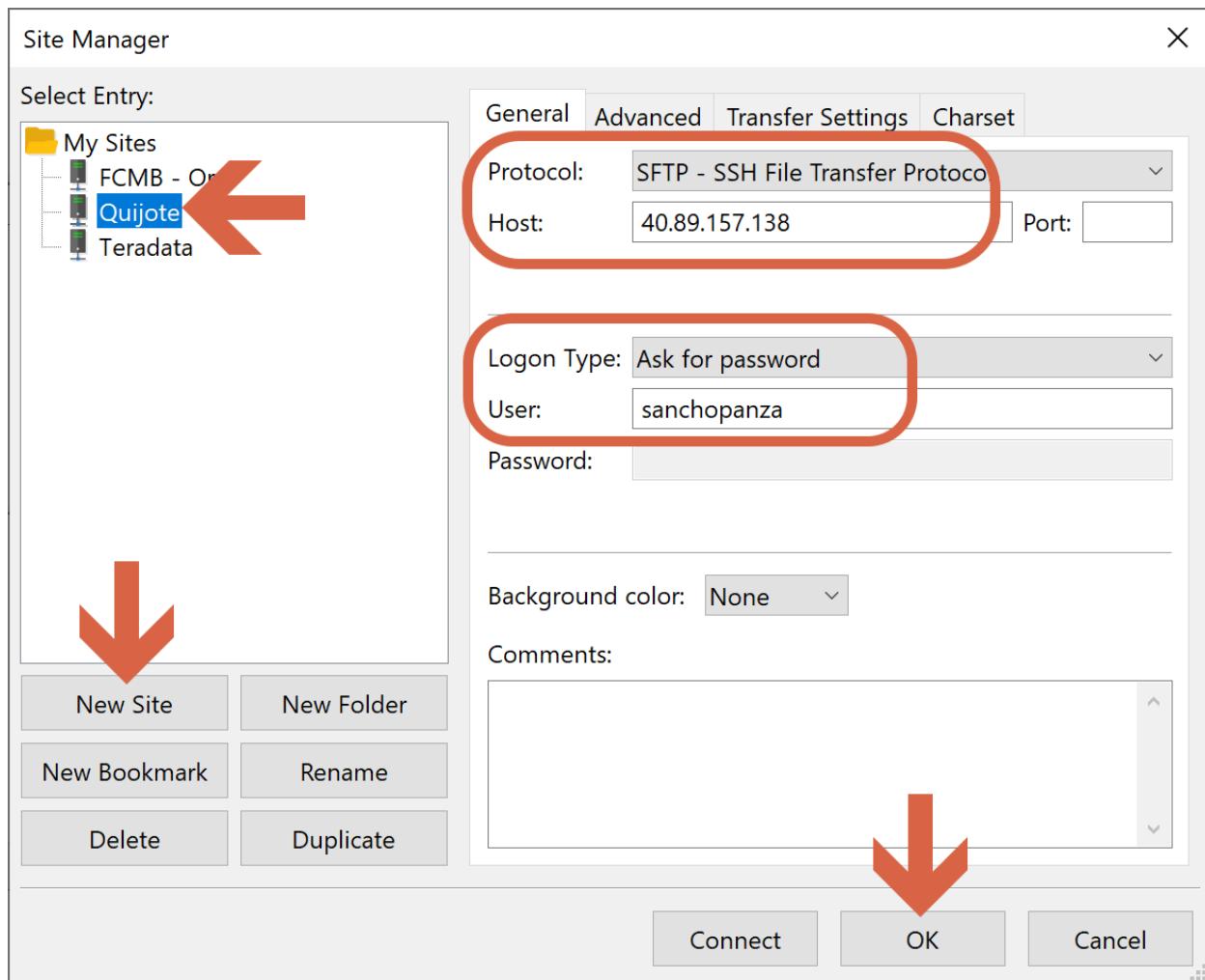
Open FileZilla.



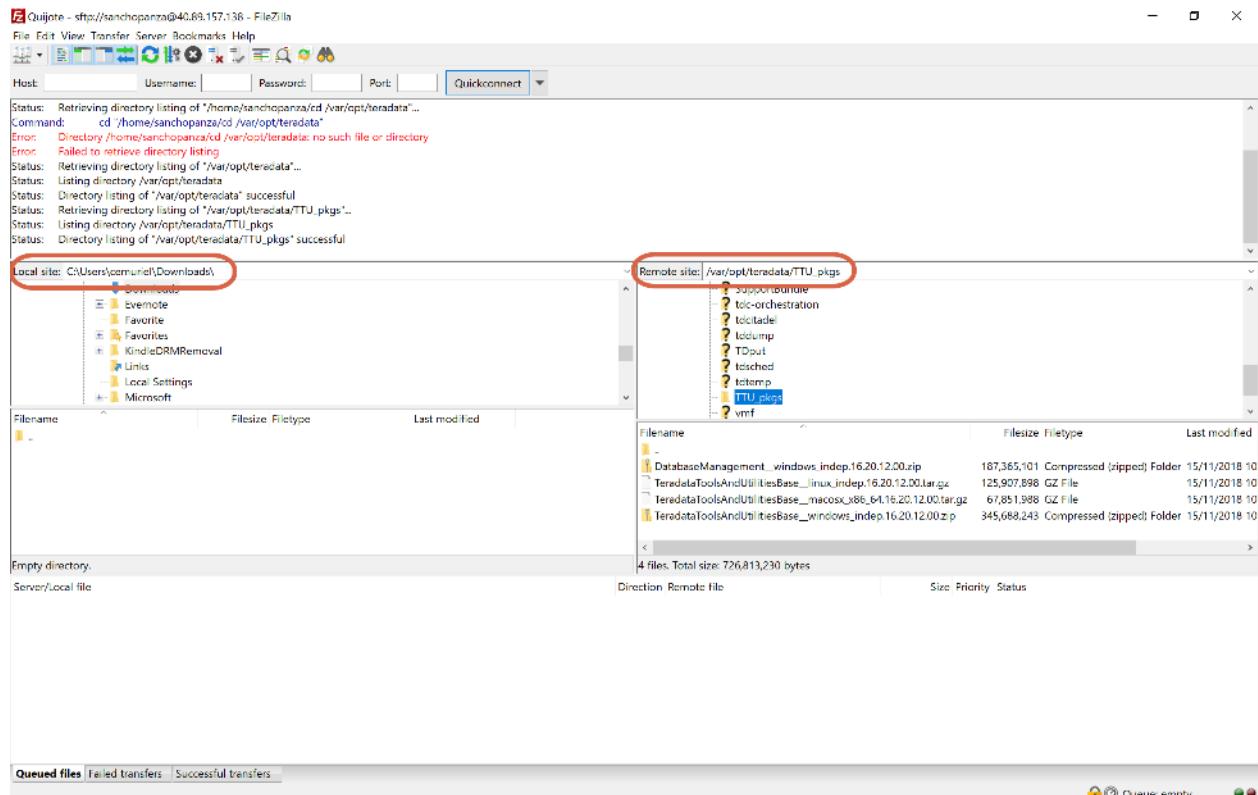
Open the Site Manager in the upper left corner.



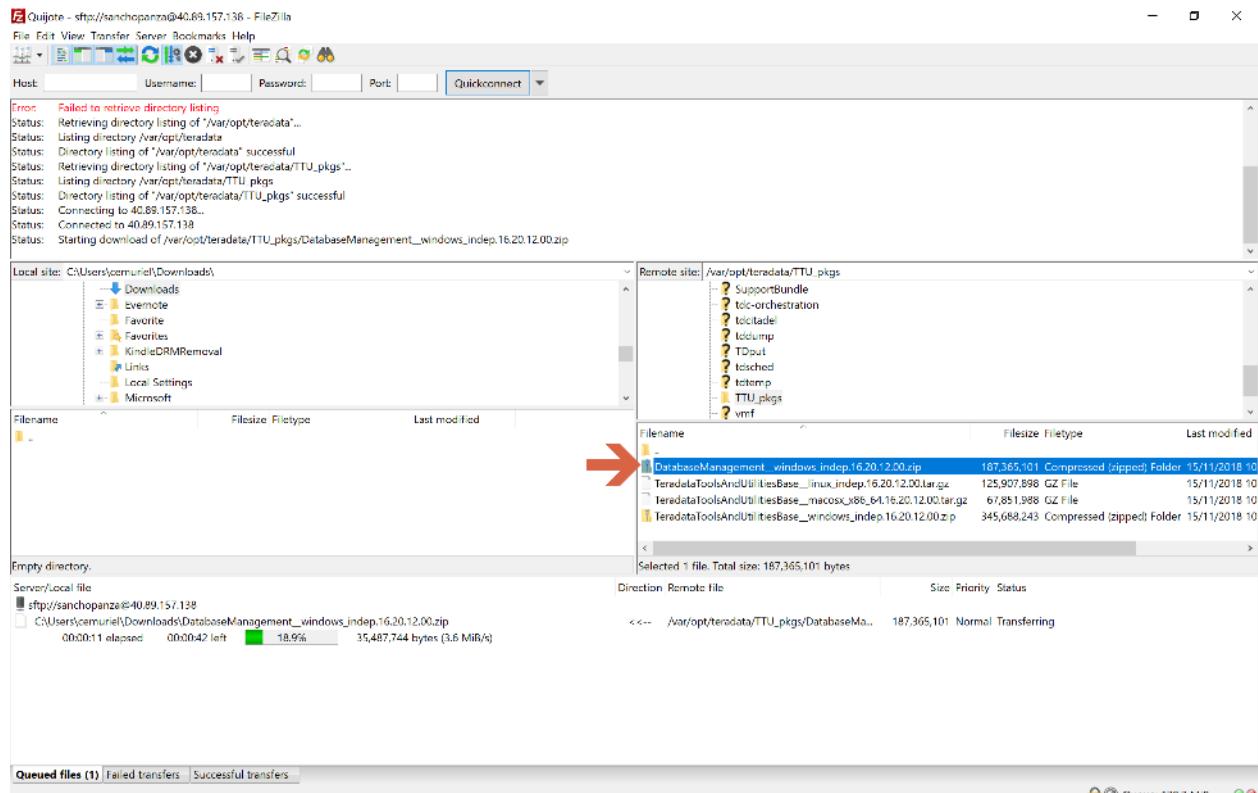
Create a new site to connect with SFT protocol, and provide the Teradata Vantage IP address, and the credentials you created in screen 1, section 2.



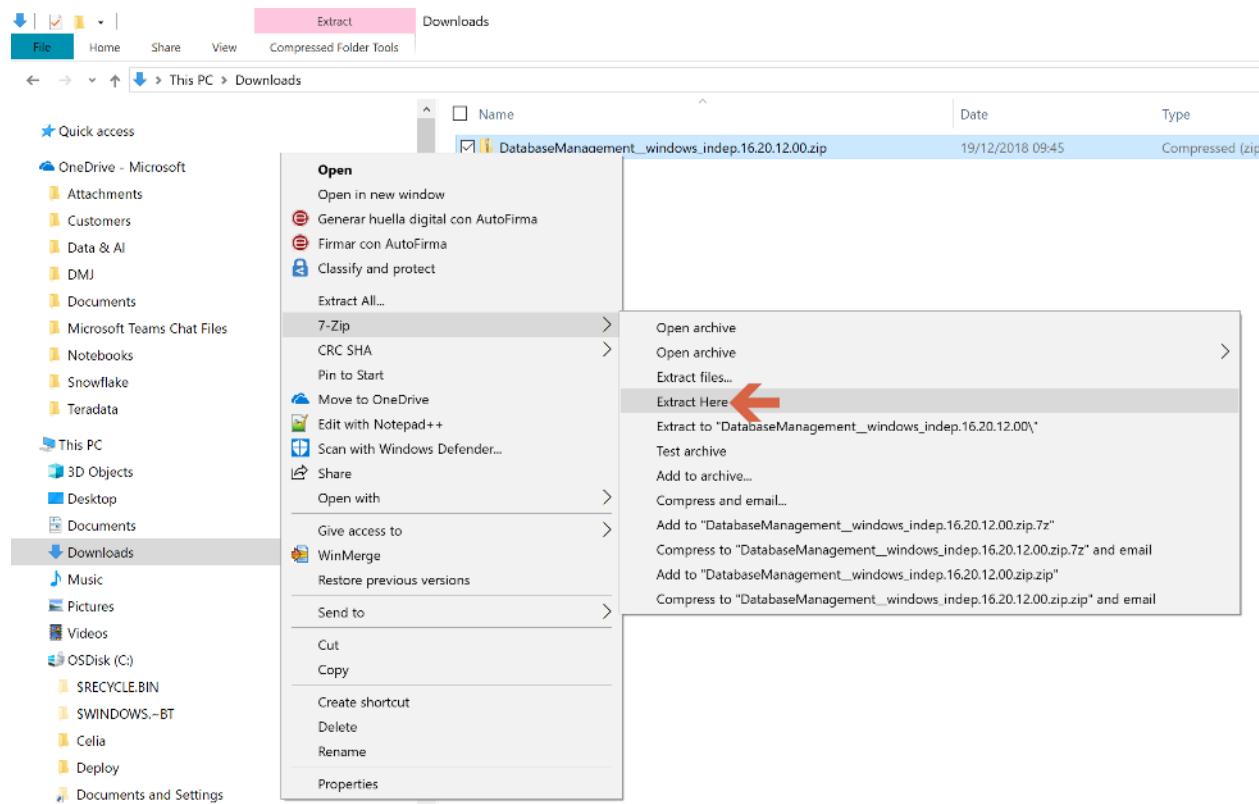
We navigate to the directory in our PC where we want to place the TTUs, and to /var/opt/teradata/TTU\_pkgs in the Teradata Vantage node.



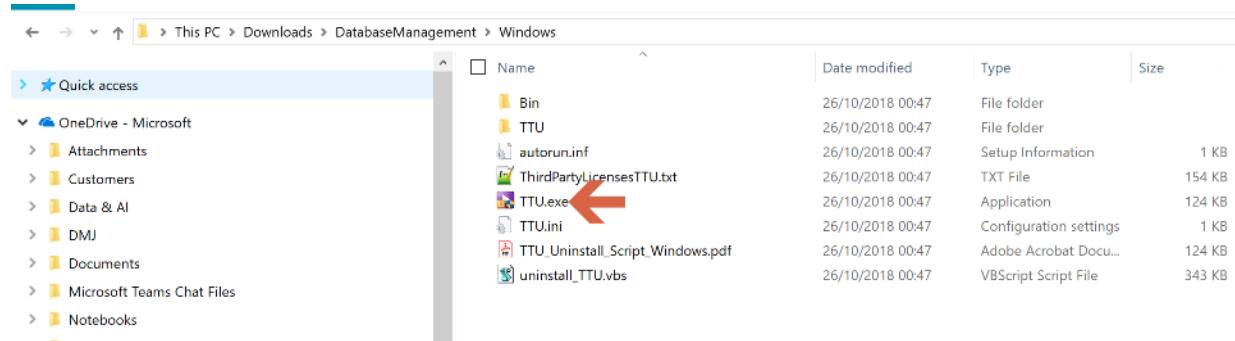
We transfer the ZIP files with the Windows TTUs to our PC.



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) ▼

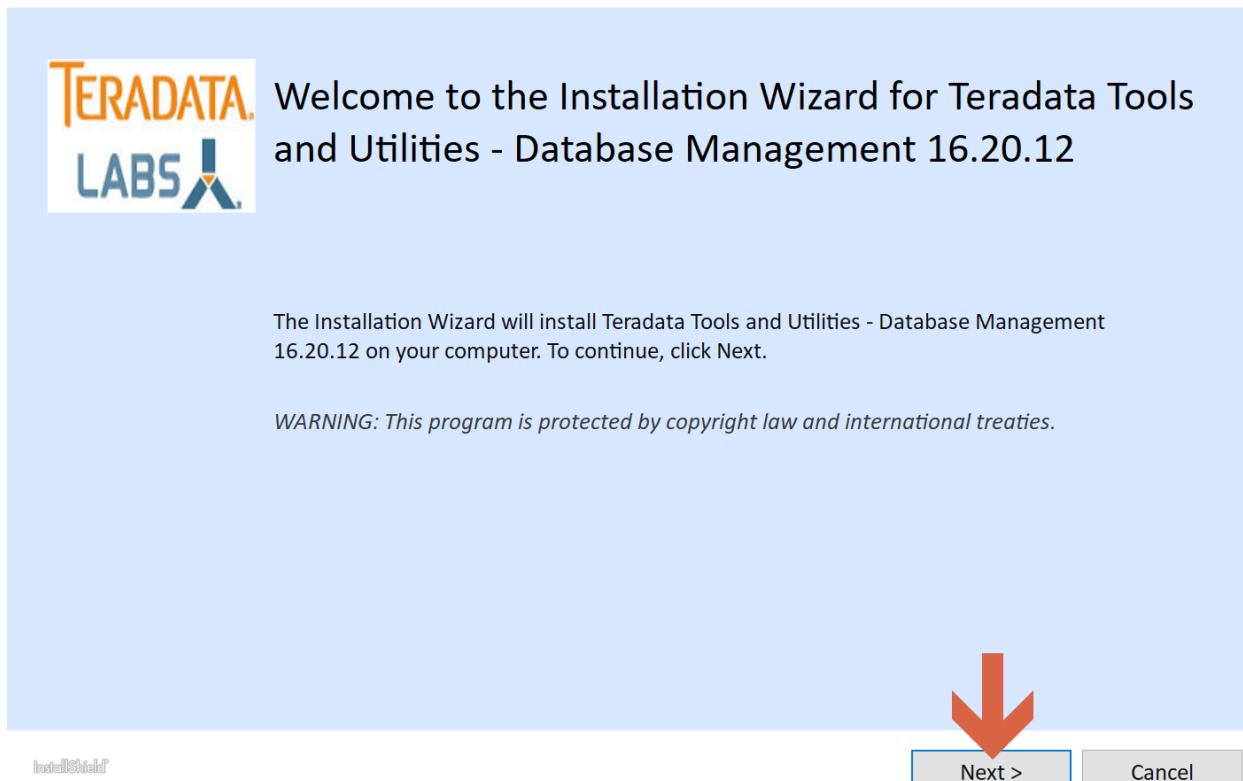
InstallShield®

 Next >

Cancel

 Teradata Tools and Utilities - Database Management 16.20.12 - Installation Wizard

X



Accept the license agreement.

 Teradata Tools and Utilities - Database Management 16.20.12 - Installation Wizard X

## License Agreement



Please read the following license agreement carefully.

Copyright © 1998-2018 by Teradata. All rights reserved.

If you or the entity for whom you are installing this software does not have a written license agreement with Teradata for this software, do not install, use or allow use of this software.

- I accept the terms in the license agreement  
 I do not accept the terms in the license agreement

[Print](#)

InstallShield®

< Back

[Next >](#)

Cancel

Choose the installation directory.

 Teradata Tools and Utilities - Database Management 16.20.12 - Installation Wizard X

## 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



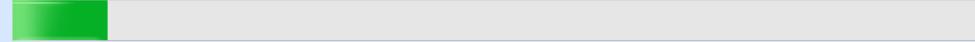
### Database Management 16.20.12



The program features you selected are being installed.

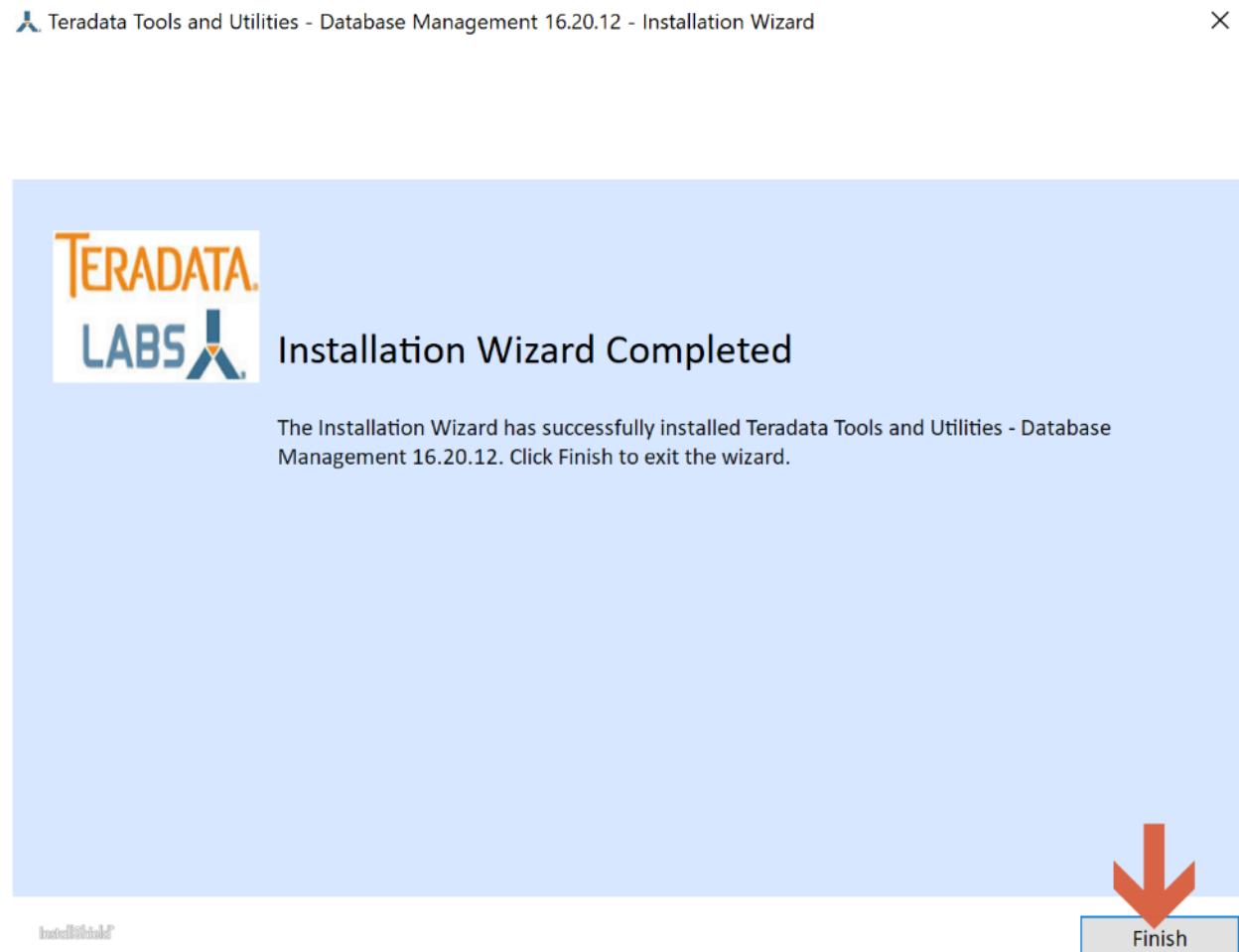
**Installing package Shared ICU-32bit**

Shared ICU-32bit

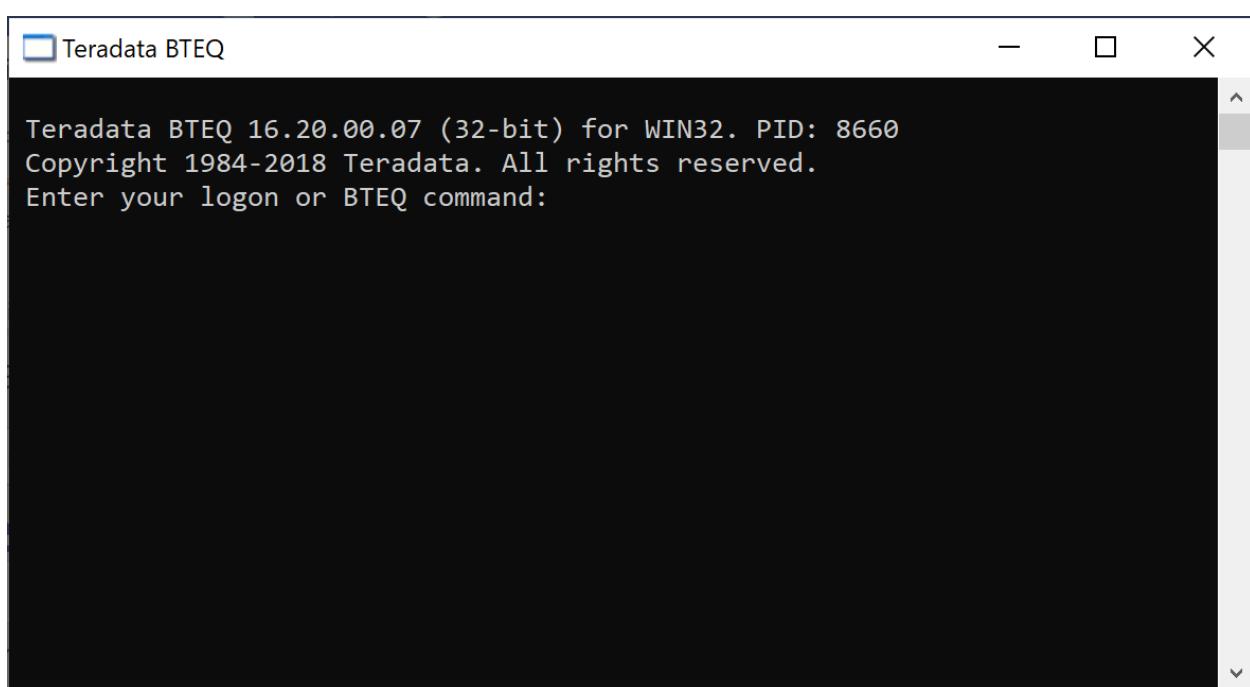
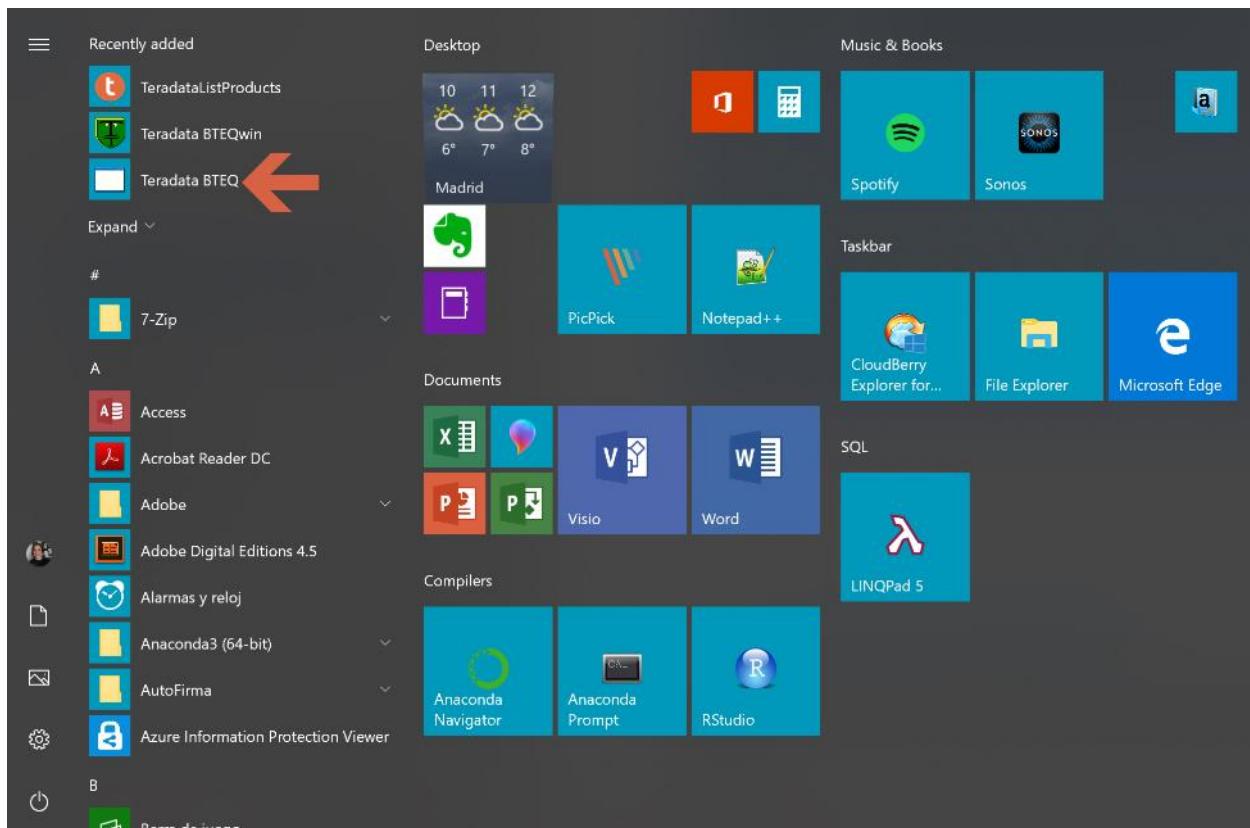


InstallShield®

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+ /)

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**

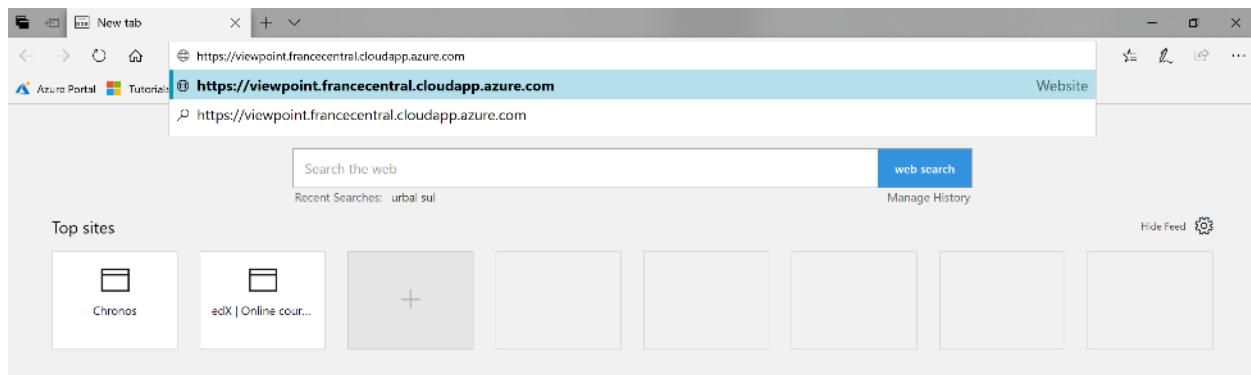
Virtual network/subnet  
**vnet-teradata/vmsubnet**

DNS name  
**viewpoint.francecentral.cloudapp.azure.com**

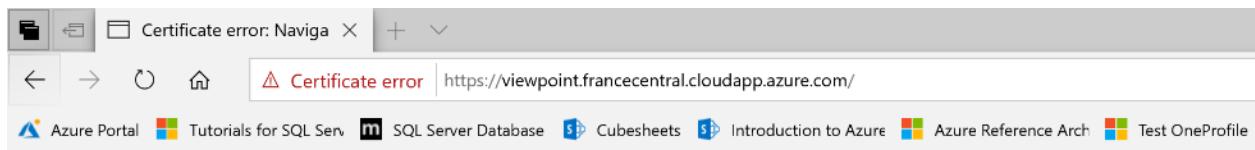
Activity log Access control (IAM) Tags Diagnose and solve problems

Settings Networking Disks

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.



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.

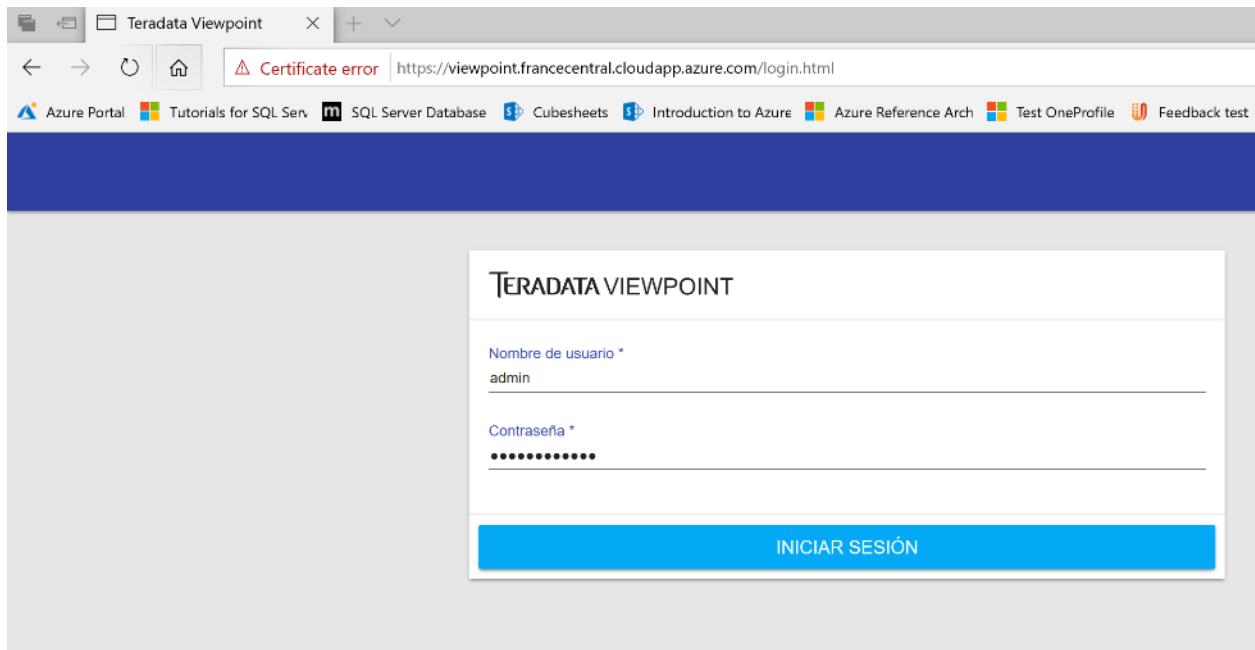
The hostname in the website's security certificate differs from the website you are trying to visit.

Error Code: DLG\_FLAGS\_INVALID\_CA  
DLG\_FLAGS\_SEC\_CERT\_CN\_INVALID

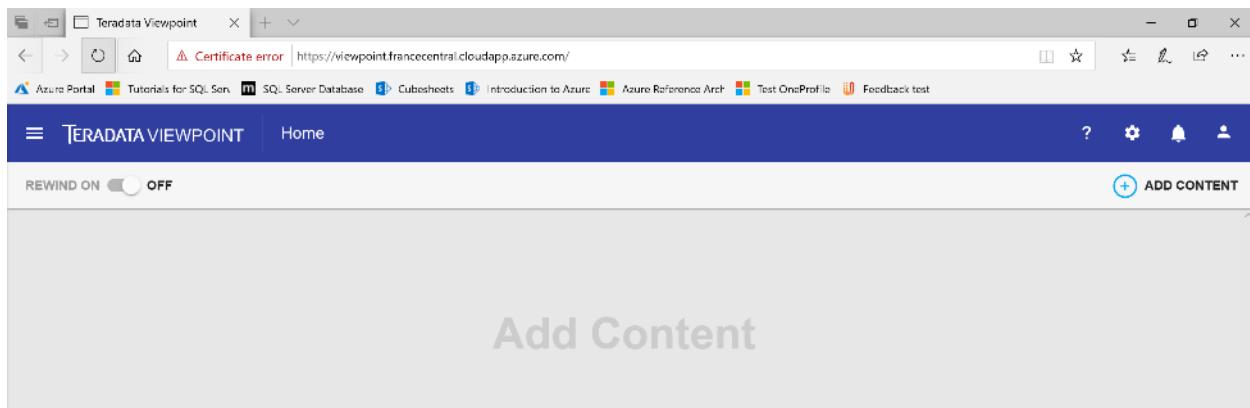


[Go on to the webpage](#) (Not recommended)

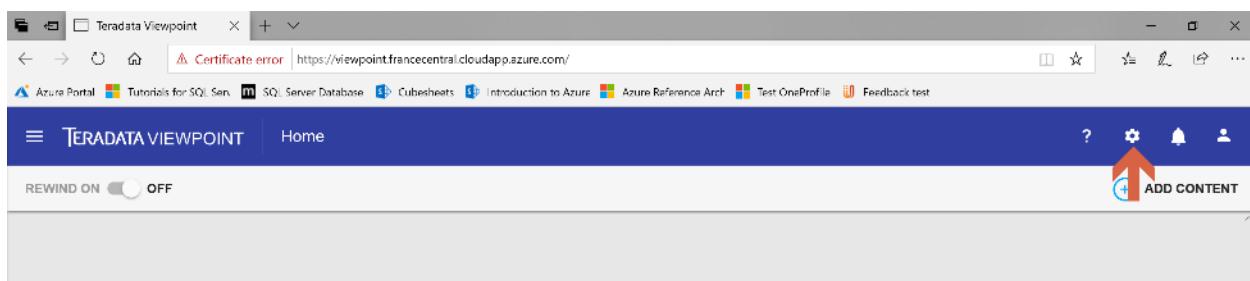
Logon in Viewpoint with the user admin, and the password you setup in screen 3 (Configure Viewpoint), section 2.



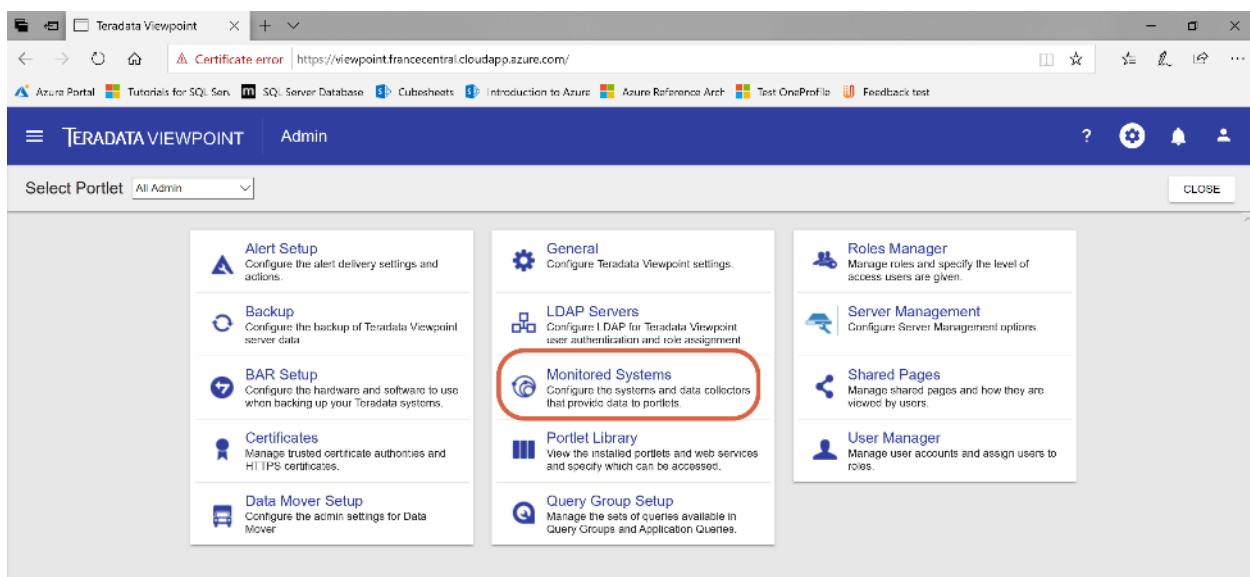
Now you are in.



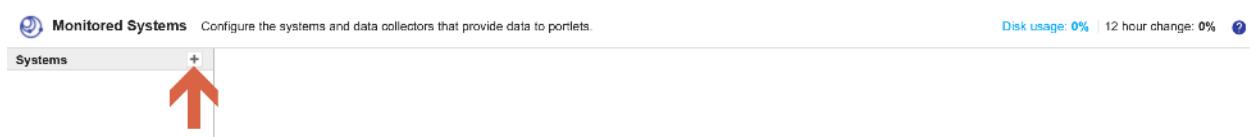
Click on the Admin menu.



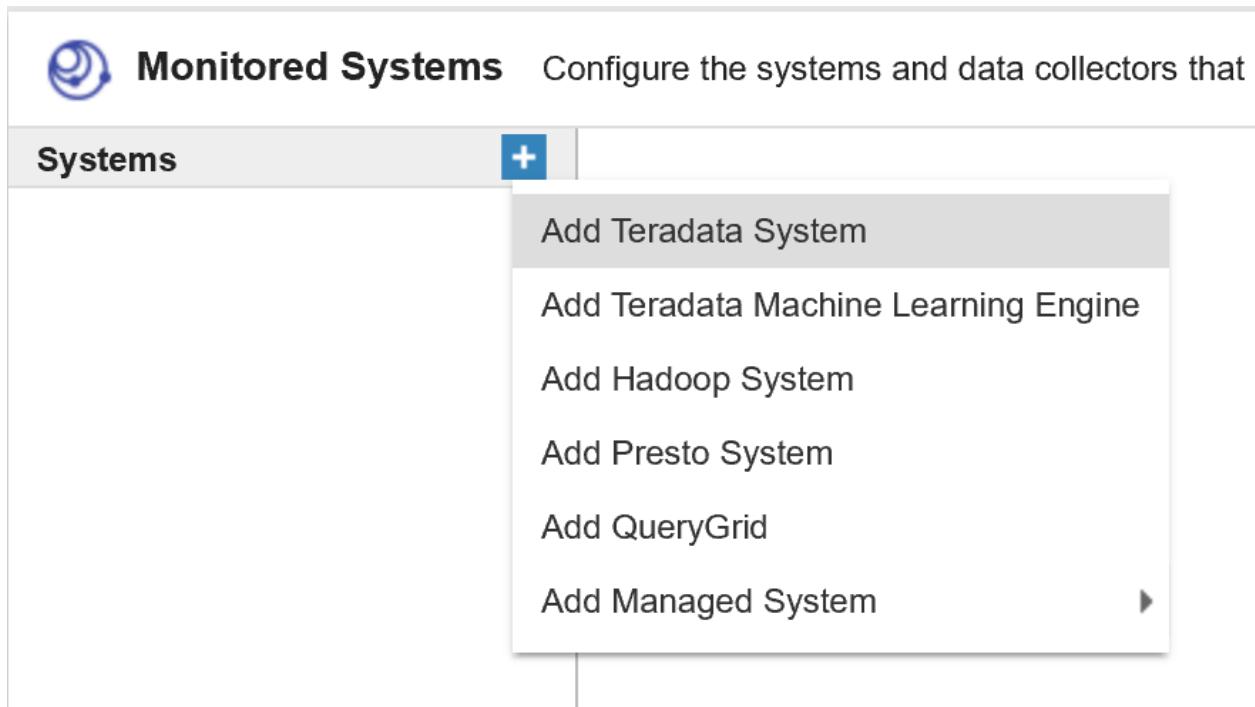
Choose Monitored Systems.



Click on the + symbol.



Choose "Add Teradata System".



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 VM details page for '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:** 40.89.157.7 (highlighted with a red box)
- Virtual network/subnet:** vnet-teradata/vmsubnet
- DNS name:** quijote.francecentral.cloudapp.azure.com (highlighted with a red box)

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".

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

Disk usage: 0% | 12 hour change: 0% [?](#)

Systems	+	Setup												
<b>General</b> <ul style="list-style-type: none"> <li>Data Collectors</li> <li>System Health</li> <li>Canary Queries</li> <li>Alerts</li> <li>Monitor Rates</li> <li>Log Table Cleanup</li> <li>Cleanup Schedule</li> </ul>														
<b>General System Details</b> <p>System Nickname: * <input type="text" value="quiote"/> <input checked="" type="checkbox"/> Enable system</p> <p>TDPID: * <input type="text" value="40.89.157.7"/></p> <p>Site ID: <input type="text"/></p> <p><b>Login</b></p> <p>Enter login credentials to be used by system tasks (e.g. Data Collectors, Canary Queries, Cleanup).</p> <table border="1"> <tr> <td>Name: * <input type="text" value="tdwrm"/></td> <td>Password: <input type="password"/></td> <td>Account String: <input type="text" value="TD2"/></td> <td>Authentication: <input type="button" value="TD2"/></td> </tr> <tr> <td><input type="text" value="dbc"/></td> <td><input type="password" value="XXXXXXXXXX"/></td> <td><input type="text" value=""/></td> <td>DEFAULT <input type="button" value="TEST"/></td> </tr> <tr> <td colspan="4"> <input type="button" value="TEST"/> <input type="button" value="GRANT"/> </td> </tr> </table> <p><b>Authentication Options</b></p> <p>In addition to the default mechanism, display these options in portlets that require authentication.</p> <p><input type="checkbox"/> LDAP</p> <p><input type="checkbox"/> TD2</p> <p><b>Character Set</b></p> <p>Session: <input type="text" value="UTF8"/></p> <p>Monitor: <input type="text" value="ASCII"/></p> <p>JDBC Flag: <input type="text"/></p> <p><b>Time Zone</b></p> <p>The time zone the system uses to log DBQL and ResUsage data.</p> <p>Time Zone: * <input type="text" value="(GMT+01:00) Brussels, Copenhagen, Mac"/> </p> <p><b>Collectors</b></p> <p><input type="checkbox"/> Enable data collectors (configure in DATA COLLECTORS) except for:</p> <ul style="list-style-type: none"> <li>• Elastic Limit</li> <li>• Elastic Usage</li> <li>• Virtual Storage</li> <li>• Stats Manager (available for 14.10 systems and above)</li> <li>• Query Log</li> </ul> <p><b>Enhanced TASM Functions (For SLES 11 systems only)</b></p> <p><input type="checkbox"/> Enable this option if your Teradata system has license entitlement to TASM</p>			Name: * <input type="text" value="tdwrm"/>	Password: <input type="password"/>	Account String: <input type="text" value="TD2"/>	Authentication: <input type="button" value="TD2"/>	<input type="text" value="dbc"/>	<input type="password" value="XXXXXXXXXX"/>	<input type="text" value=""/>	DEFAULT <input type="button" value="TEST"/>	<input type="button" value="TEST"/> <input type="button" value="GRANT"/>			
Name: * <input type="text" value="tdwrm"/>	Password: <input type="password"/>	Account String: <input type="text" value="TD2"/>	Authentication: <input type="button" value="TD2"/>											
<input type="text" value="dbc"/>	<input type="password" value="XXXXXXXXXX"/>	<input type="text" value=""/>	DEFAULT <input type="button" value="TEST"/>											
<input type="button" value="TEST"/> <input type="button" value="GRANT"/>														
<input type="button" value="APPLY"/> <input type="button" value="RESET"/>														

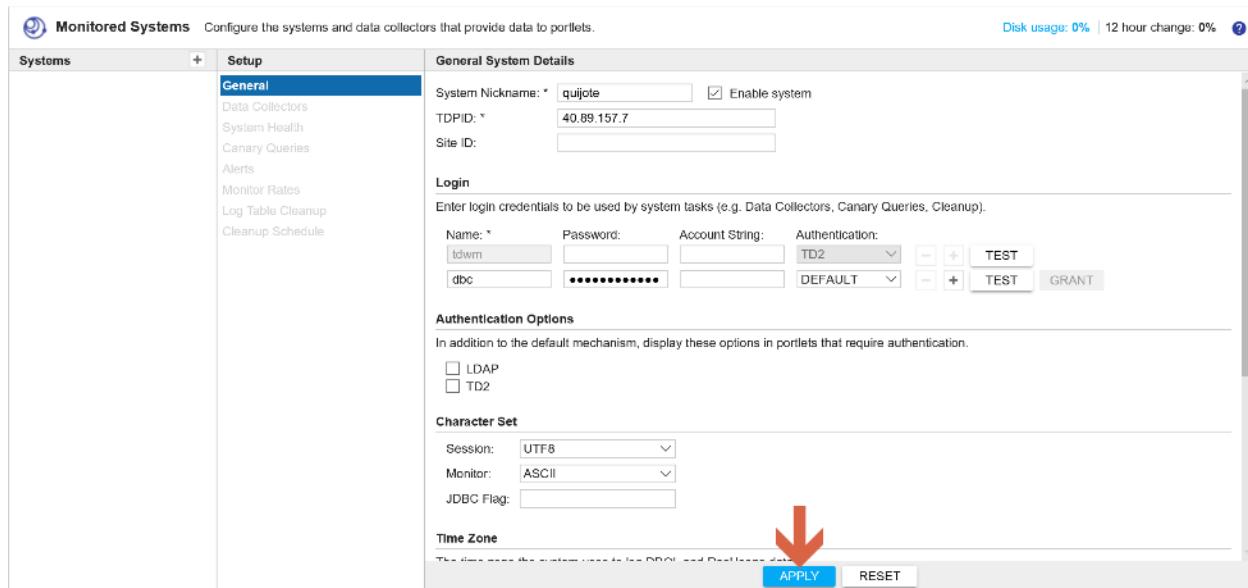
Provide with the information about your time zone.

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

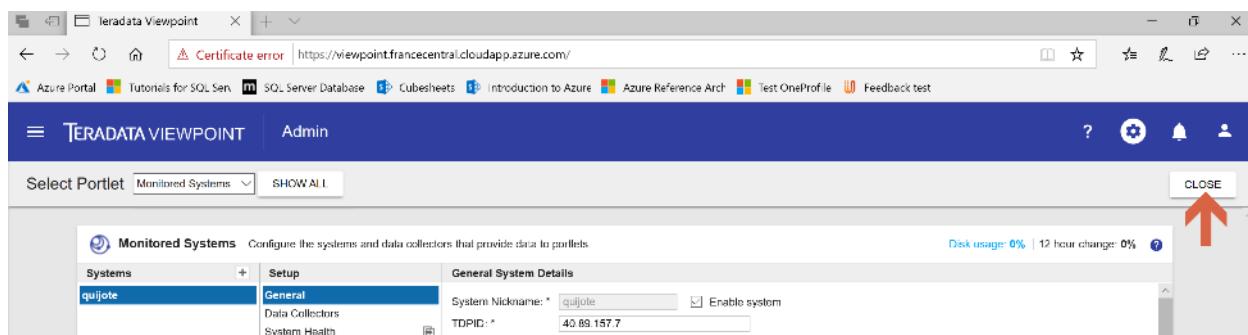
Disk usage: 0% | 12 hour change: 0% [?](#)

Systems	+	Setup
<b>General</b> <ul style="list-style-type: none"> <li>Data Collectors</li> <li>System Health</li> <li>Canary Queries</li> <li>Alerts</li> <li>Monitor Rates</li> <li>Log Table Cleanup</li> <li>Cleanup Schedule</li> </ul>		
<b>General System Details</b> <p><input type="checkbox"/> LDAP</p> <p><input type="checkbox"/> TD2</p> <p><b>Character Set</b></p> <p>Session: <input type="text" value="UTF8"/></p> <p>Monitor: <input type="text" value="ASCII"/></p> <p>JDBC Flag: <input type="text"/></p> <p><b>Time Zone</b></p> <p>The time zone the system uses to log DBQL and ResUsage data.</p> <p>Time Zone: * <input type="text" value="(GMT+01:00) Brussels, Copenhagen, Mac"/> </p> <p><b>Collectors</b></p> <p><input type="checkbox"/> Enable data collectors (configure in DATA COLLECTORS) except for:</p> <ul style="list-style-type: none"> <li>• Elastic Limit</li> <li>• Elastic Usage</li> <li>• Virtual Storage</li> <li>• Stats Manager (available for 14.10 systems and above)</li> <li>• Query Log</li> </ul> <p><b>Enhanced TASM Functions (For SLES 11 systems only)</b></p> <p><input type="checkbox"/> Enable this option if your Teradata system has license entitlement to TASM</p>		
<input type="button" value="APPLY"/> <input type="button" value="RESET"/>		

Click on “APPLY”.



Click "CLOSE" on the upper right corner.



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

The screenshot shows the Teradata Viewpoint interface on a web browser. The top navigation bar includes links for Certificate error, 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 is titled "TERADATA VIEWPOINT" and "Home". It features several portlets:

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

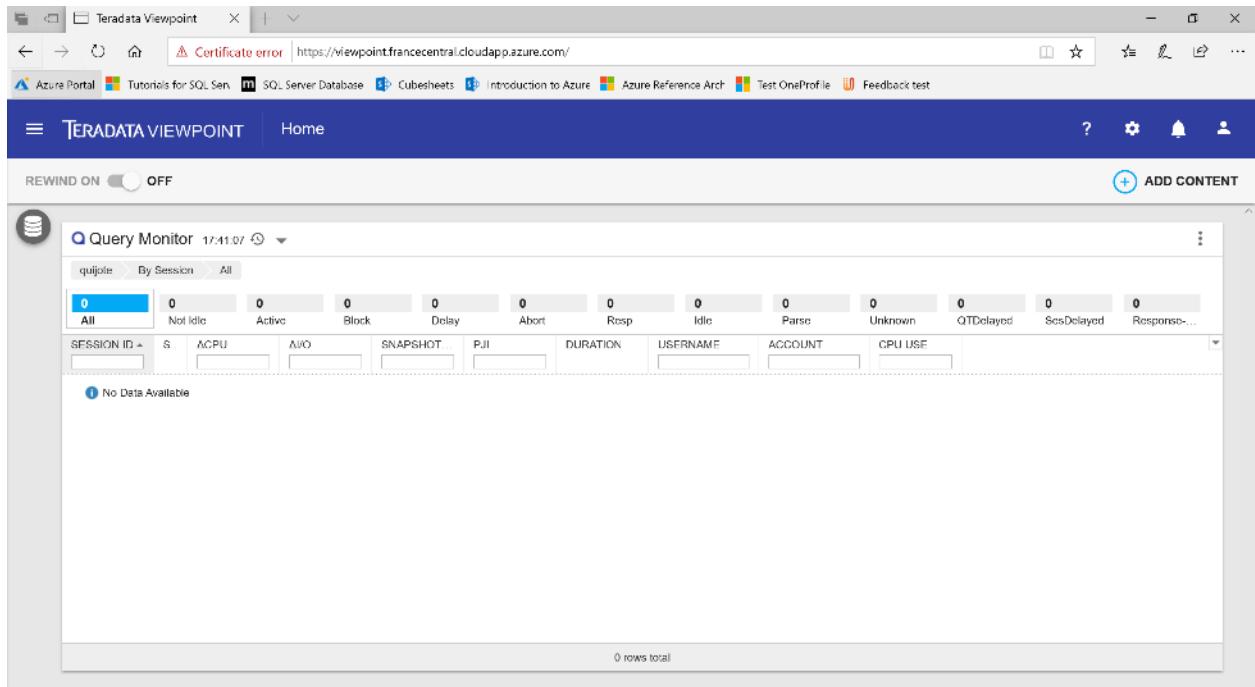
At the bottom right of the interface are "ADD" and "CANCEL" buttons.

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

The screenshot shows the "Add Content" dialog box from the Teradata Viewpoint interface. The "ADD" button is highlighted with a red box. The "Query Monitor" portlet is also highlighted with a red circle. The dialog lists the following portlets:

- Alert Viewer
- Completed Queries
- Lock Viewer
- My Queries
- Query Groups
- Query Log
- Query Monitor (highlighted)
- Query Spotlight

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



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

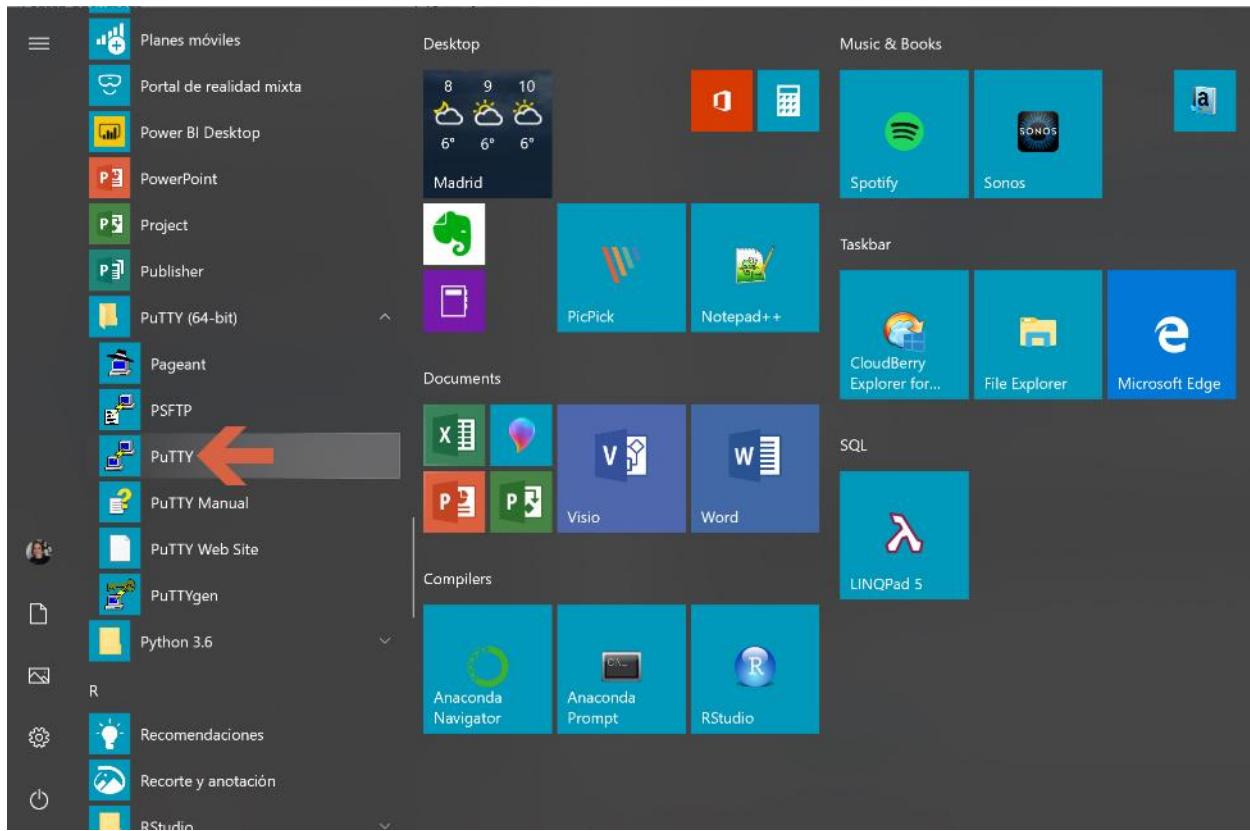
## 7. Stop and deallocate resources when you don't use the system

### Teradata Vantage

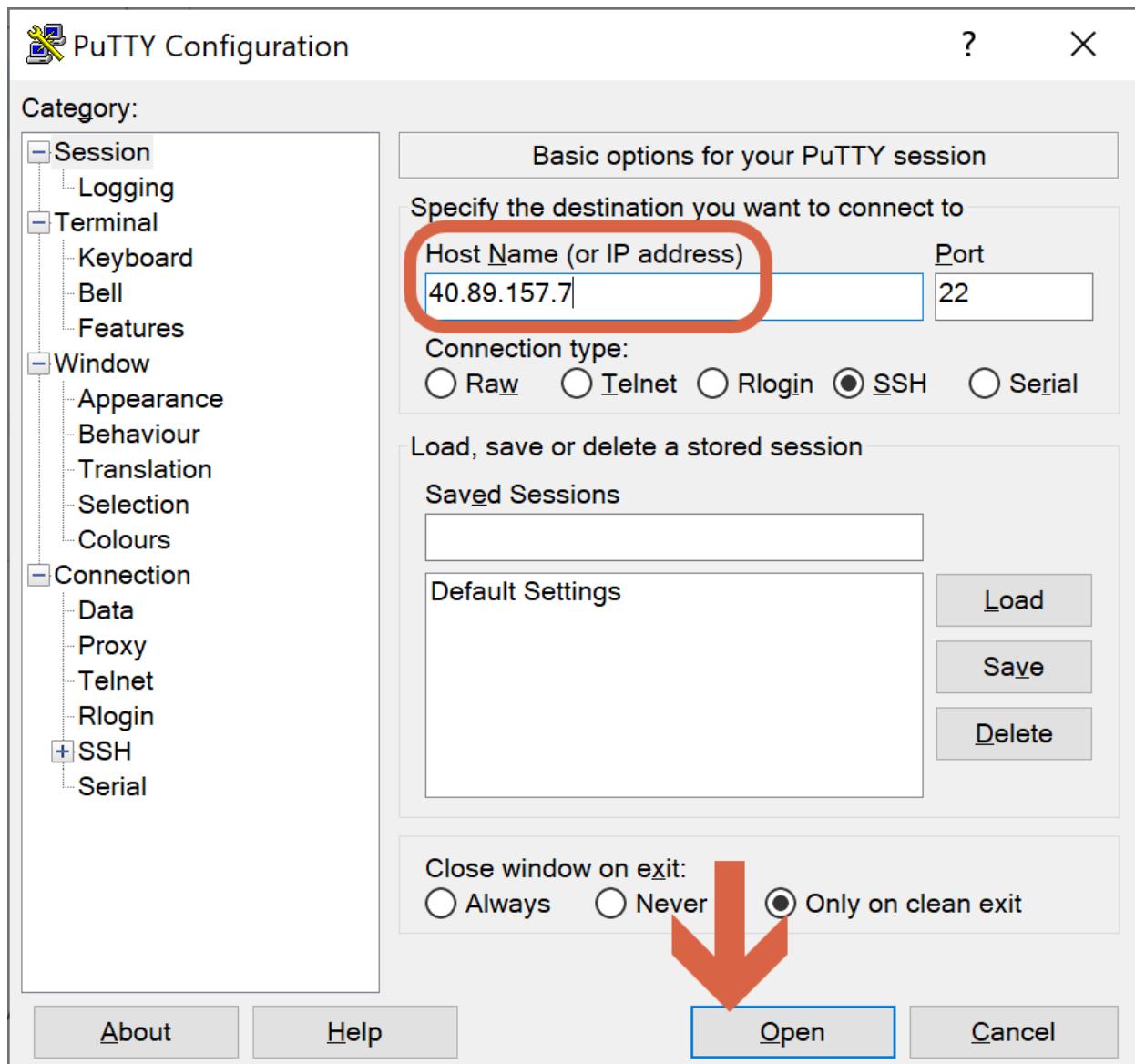
We go to Teradata Vantage virtual machine in the Azure portal and take note of the IP and DNS name.

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](#).

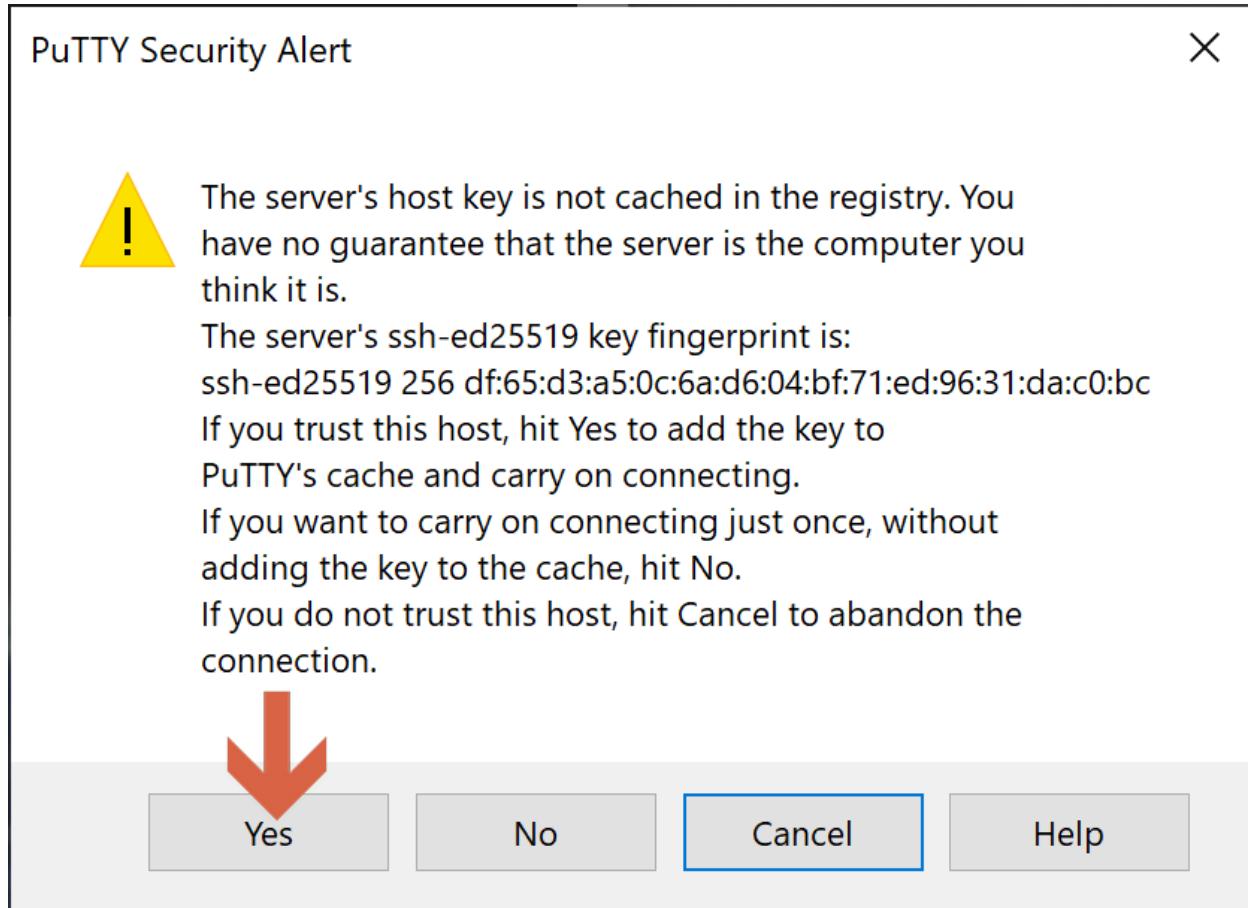
We open PuTTY.



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



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

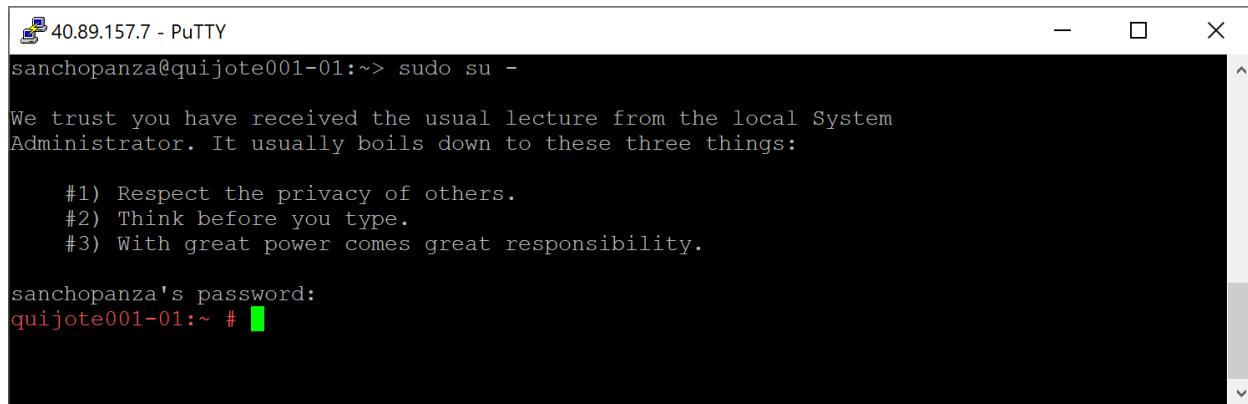


When prompted, provide with the OS user and password which you setup in screen 1, section 2.

A screenshot of a PuTTY terminal window. The title bar says "40.89.157.7 - PuTTY". The main pane displays a login prompt: "login as: sanchopanza" followed by "Using keyboard-interactive authentication.". Below the prompt, the word "Password:" is visible, preceded by a green cursor. The rest of the window is black, indicating a blank input field.

```
40.89.157.7 - PuTTY
login as: sanchopanza
Using keyboard-interactive authentication.
Password: █
```

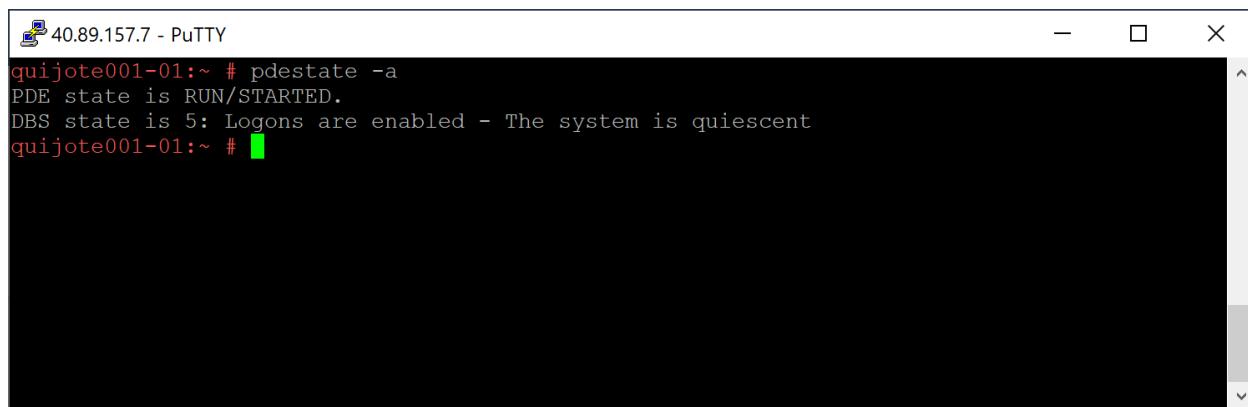
Switch to the root user environment: `sudo su -`



```
40.89.157.7 - PuTTY
sanchopanza@quipote001-01:~> 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.

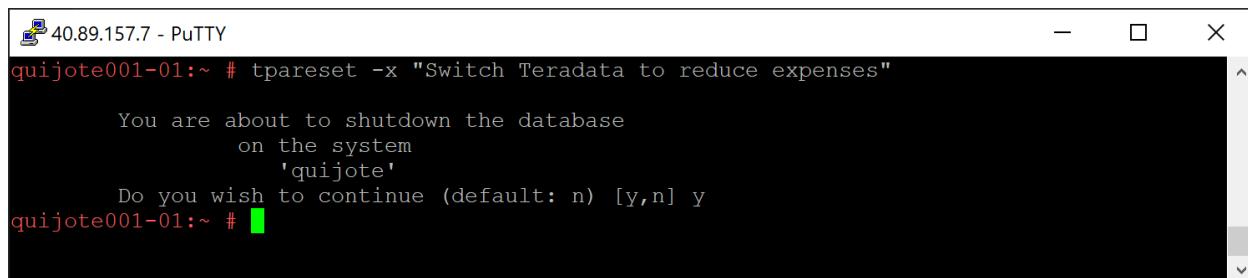
sanchopanza's password:
quipote001-01:~ #
```

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



```
40.89.157.7 - PuTTY
quipote001-01:~ # pdestate -a
PDE state is RUN/STARTED.
DBS state is 5: Logons are enabled - The system is quiescent
quipote001-01:~ #
```

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



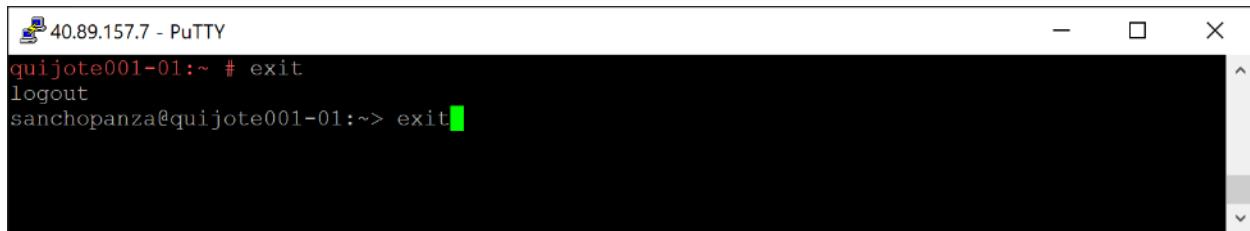
```
40.89.157.7 - PuTTY
quipote001-01:~ # tpareset -x "Switch Teradata to reduce expenses"
You are about to shutdown the database
on the system
'quipote'
Do you wish to continue (default: n) [y,n] y
quipote001-01:~ #
```

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



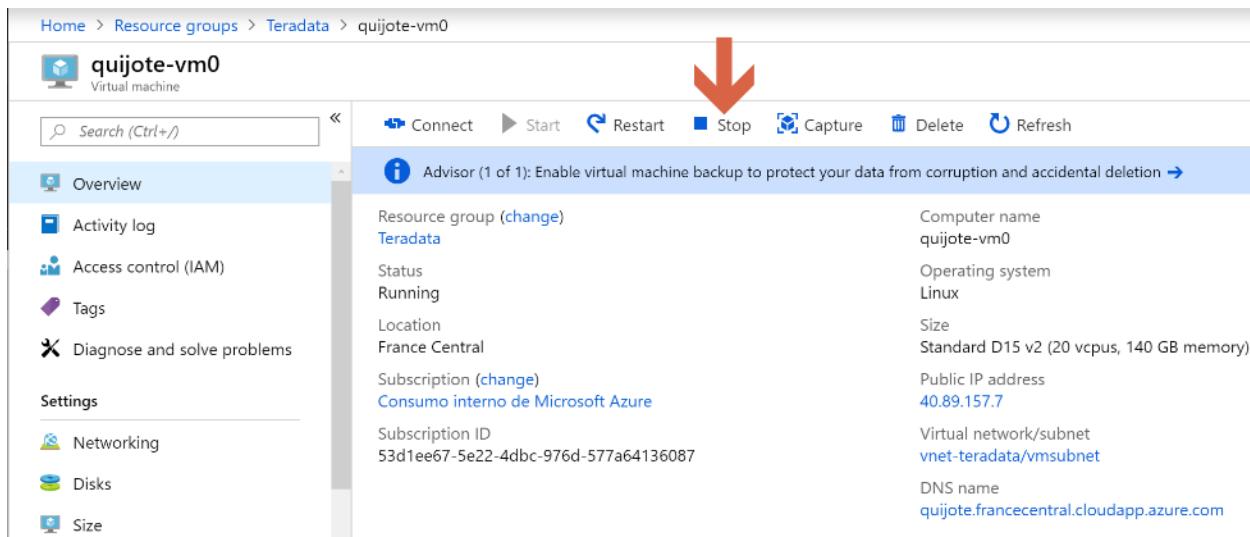
```
40.89.157.7 - PuTTY
quipote001-01:~ # psh pdestate -w
<----- localhost ----->
PDE state: DOWN/HARDSTOP
quipote001-01:~ #
```

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



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

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



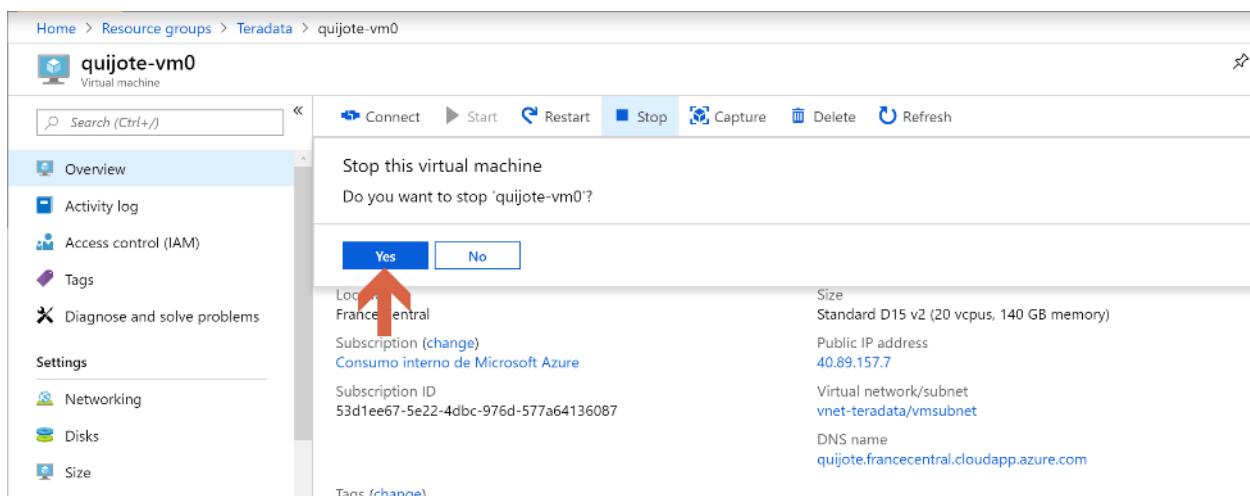
**quijsote-vm0** Virtual machine

**Overview**

**Stop**

**Advisor (1 of 1):** Enable virtual machine backup to protect your data from corruption and accidental deletion →

Resource group (change) Teradata	Computer name quijsote-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 <b>40.89.157.7</b>
Subscription ID 53d1ee67-5e22-4dbc-976d-577a64136087	Virtual network/subnet vnet-teradata/vmsubnet
	DNS name quijsote.francecentral.cloudapp.azure.com

**Stop this virtual machine**

Do you want to stop 'quijsote-vm0'?

**Yes** **No**

**Loc** France Central

**Subscription (change)** Consumo interno de Microsoft Azure

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

**Tans (change)**

**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

## 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**

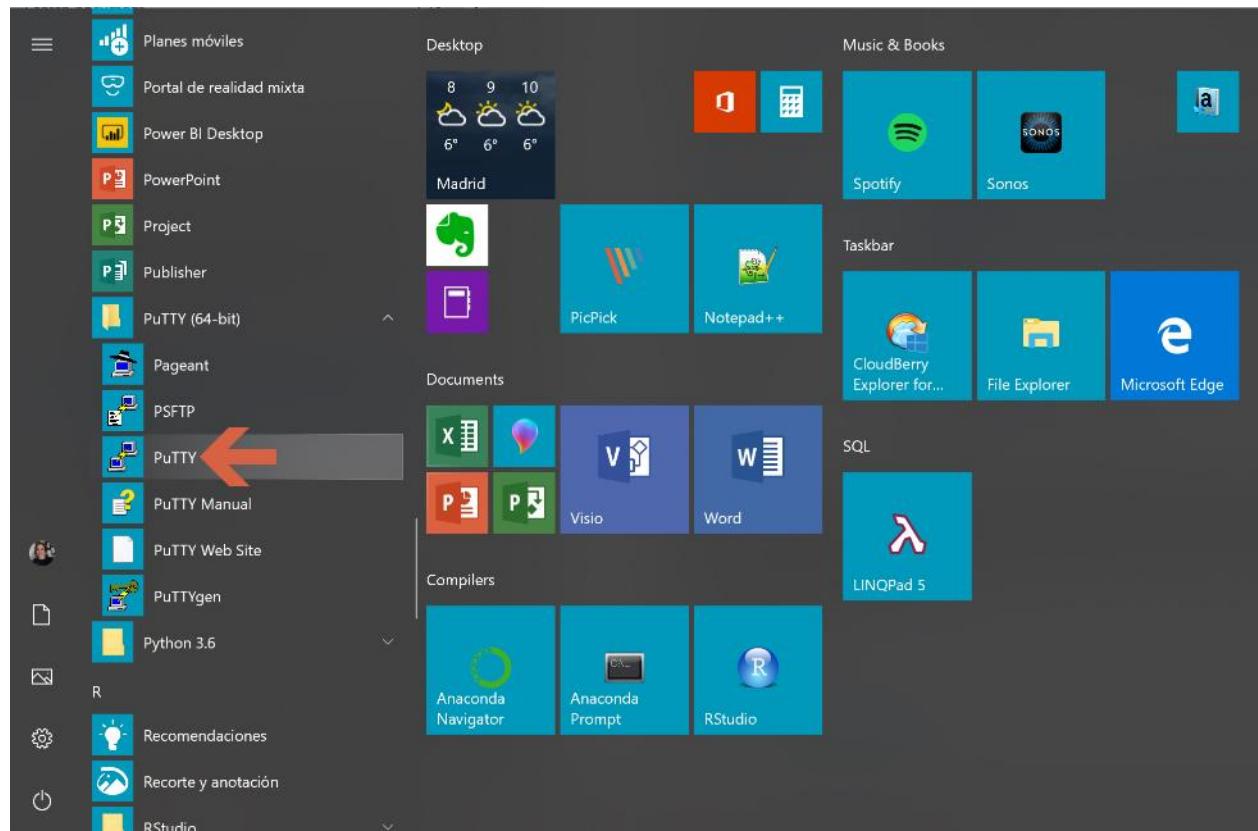
Virtual network/subnet  
vnet-teradata/vmsubnet

DNS name  
**viewpoint.francecentral.cloudapp.azure.com**

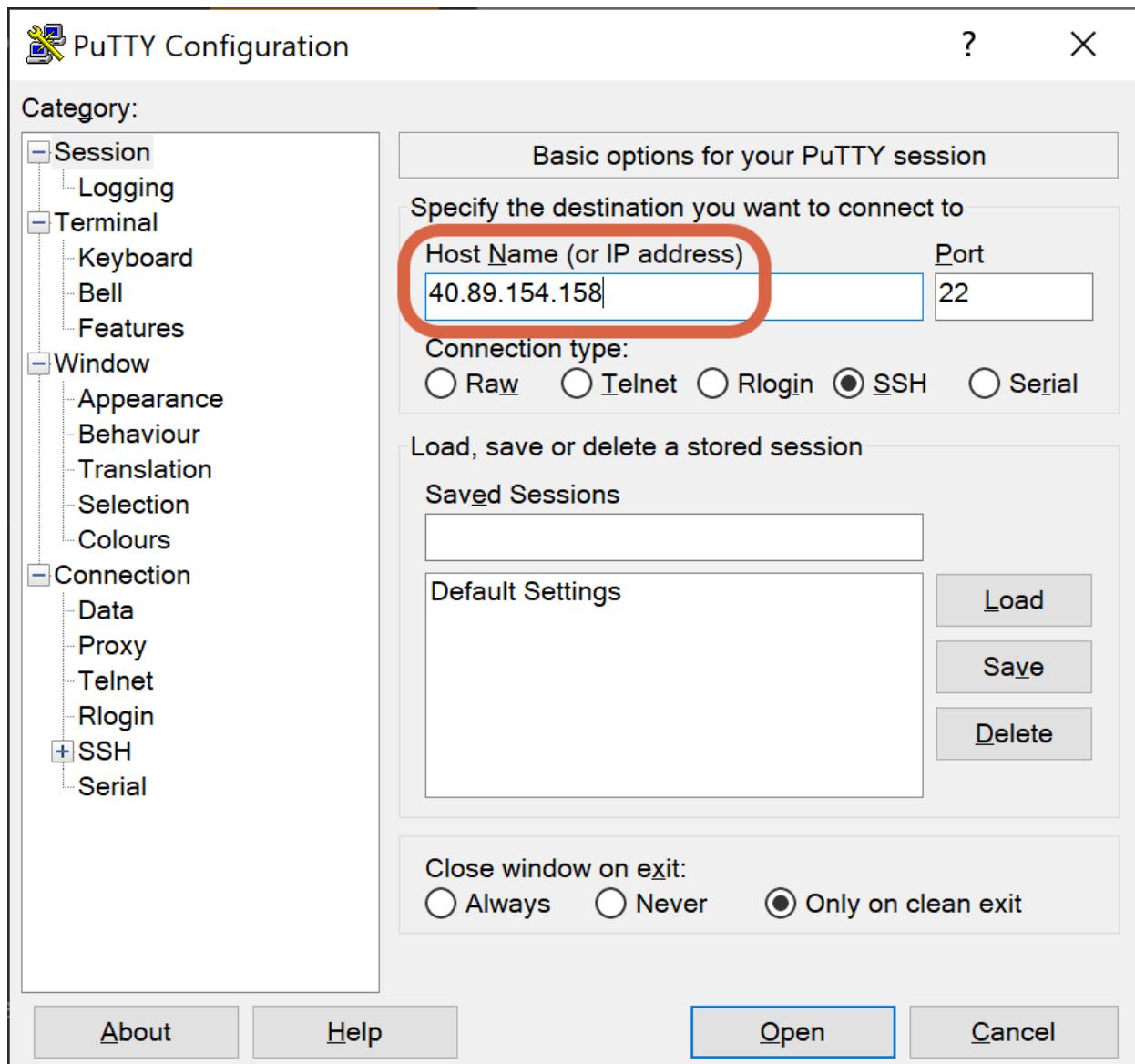
Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems  
Networking  
Disks  
Size

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](#).

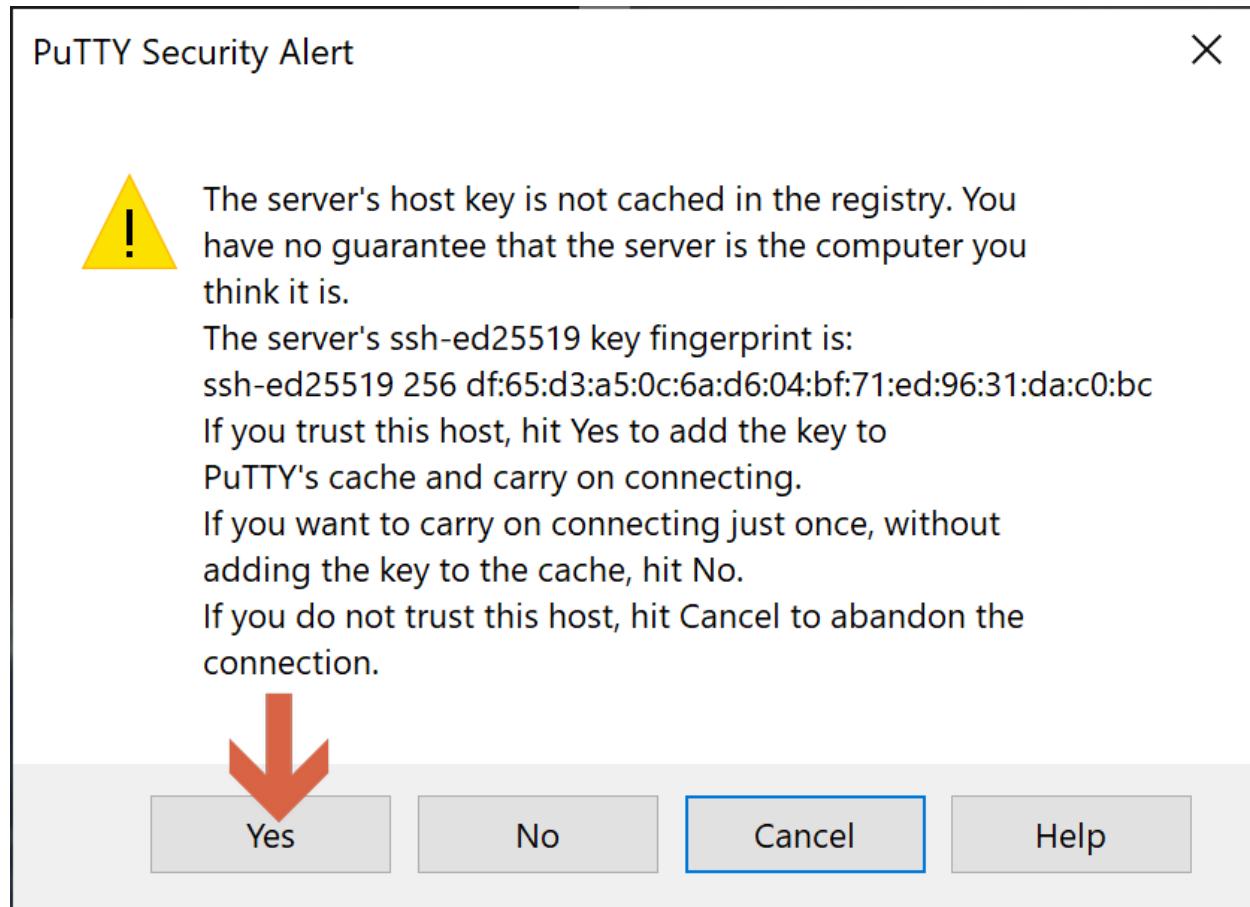
We open PuTTY.



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.

A screenshot of a PuTTY terminal window titled "40.89.154.158 - PuTTY". The window shows a login prompt: "login as: sanchopanza". Below it, it says "Using keyboard-interactive authentication." and "Password:". The command "sanchopanza@viewpoint-vm0:~>" is shown at the bottom.

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

A screenshot of a PuTTY terminal window titled "40.89.154.158 - PuTTY". The user has run the command `sudo su -`. The terminal displays a message: "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." Below this, it asks for the password: "sanchopanza's password: viewpoint-vm0:~ #".

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

```
40.89.154.158 - PuTTY
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.

```
40.89.154.158 - PuTTY
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 done
Wed Dec 19 08:26:28 CET 2018 dcs: stopped
Wed Dec 19 08:26:28 CET 2018 tmsmonitor: stopping... done
Shutting down TMSMonitor done
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 done
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 done
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`

```
40.89.154.158 - PuTTY
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.

**viewpoint-vm0** Virtual machine

Overview

Status: Running

Location: France Central

Subscription: 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

**Stop**

Advisor (1 of 2): Enable virtual machine backup to protect your data from corruption and accidental deletion →

Stop this virtual machine  
Do you want to stop 'viewpoint-vm0'?

**Yes** **No**

Location: France Central

Subscription: Consumo interno de Microsoft Azure

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

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

## 8. How to resume working again

### Teradata Vantage

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

**quijote-vm0** Virtual machine

Overview

Status: Stopped (deallocated)

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: quijote-ip

Virtual network/subnet: vnet-teradata/vmsubnet

DNS name: quijote.francecentral.cloudapp.azure.com

**Start**

Advisor (1 of 1): Enable virtual machine backup to protect your data from corruption and accidental deletion →

Start this virtual machine  
Do you want to start 'quijote-vm0'?

**Yes** **No**

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: quijote-ip

Virtual network/subnet: vnet-teradata/vmsubnet

DNS name: quijote.francecentral.cloudapp.azure.com

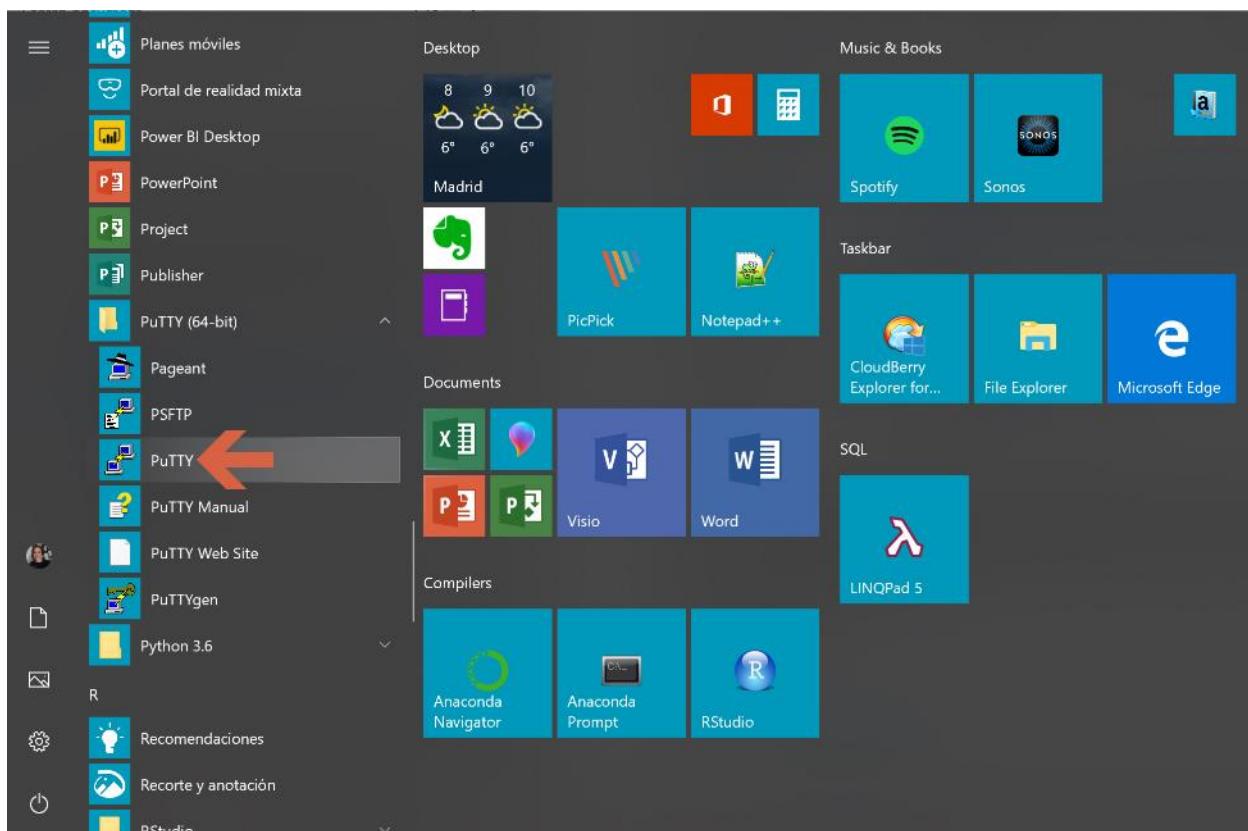
We take note of the public IP address and the DNS name:

The screenshot shows the Azure portal interface for a virtual machine named 'quijote-vm0'. On the left, there's a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Disks, and Size. The main pane displays the VM's details under the 'Teradata' resource group. Key information includes:

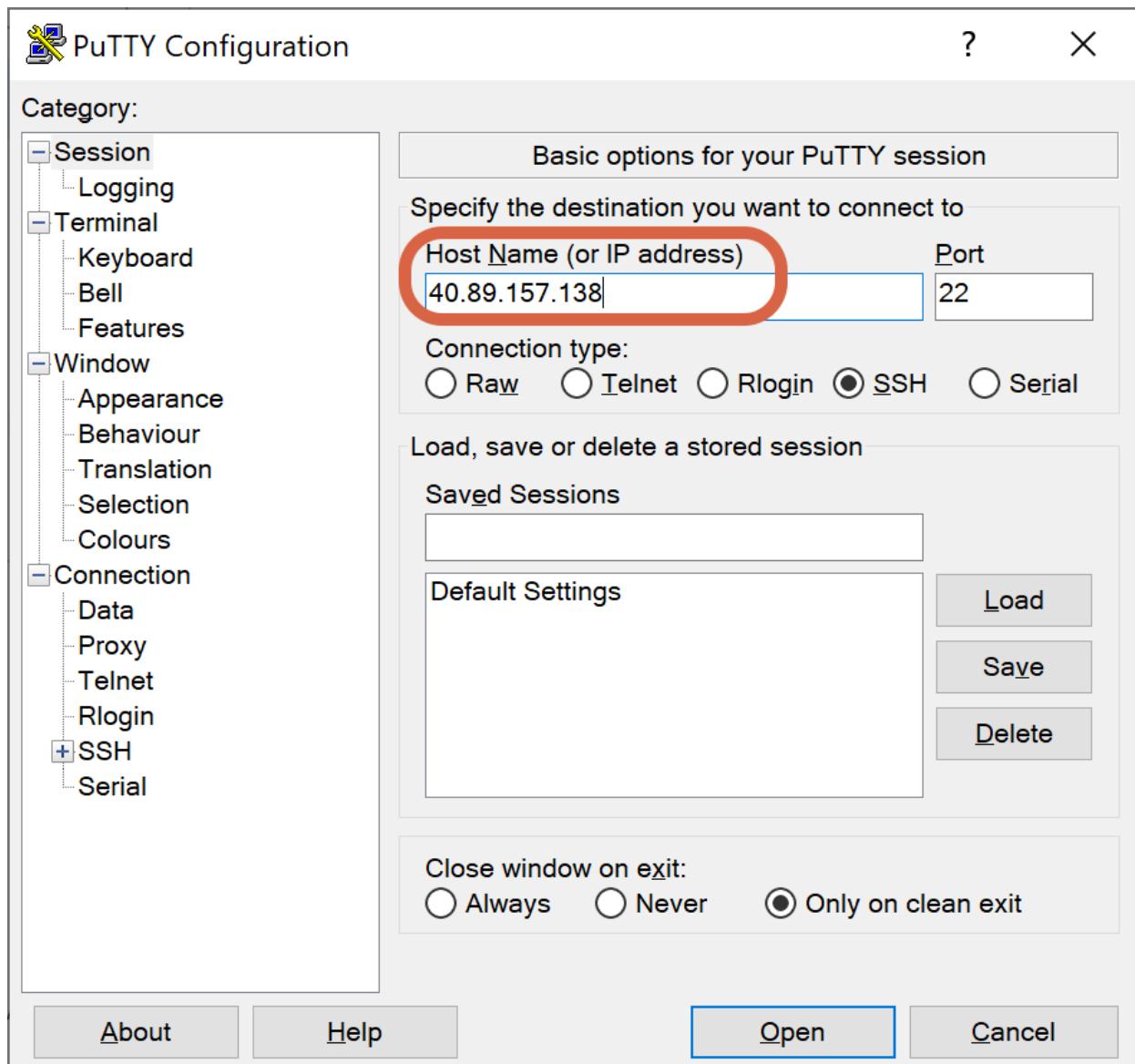
- Computer name: quijote-vm0
- Operating system: Linux
- Size: Standard D15 v2 (20 vcpus, 140 GB memory)
- Public IP address: 40.89.157.138
- Virtual network/subnet: vnet-teradata/vmsubnet
- DNS name: quijote.francecentral.cloudapp.azure.com

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 on your computer, you can download it from [here](#).

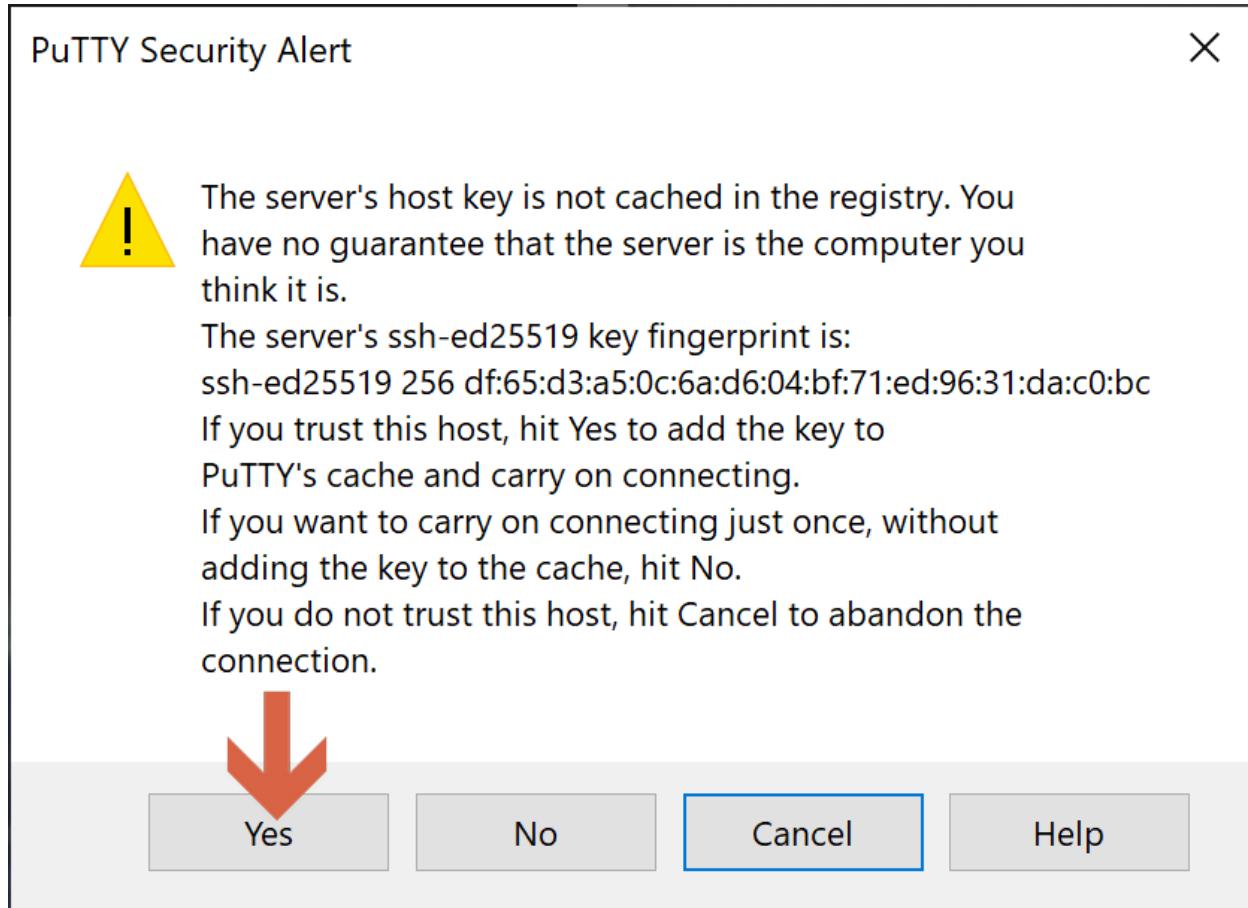
We open PuTTY.



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. The title bar says "40.89.157.138 - PuTTY". The main pane displays a login prompt: "login as: sanchopanza" followed by "Using keyboard-interactive authentication.". A password field is shown with a green placeholder character. The window has standard minimize, maximize, and close buttons at the top right.

```
40.89.157.138 - PuTTY
login as: sanchopanza
Using keyboard-interactive authentication.
Password: █
```

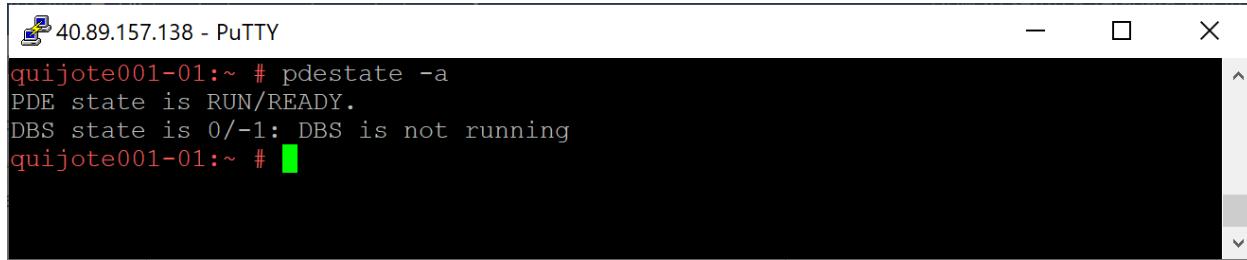
Switch to the root user environment: `sudo su -`



40.89.157.138 - PuTTY

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

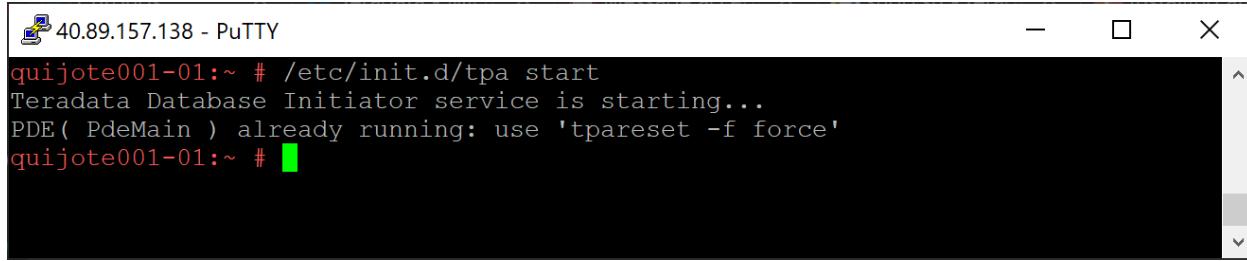
Verify the database is shut down: *pdestate -a*



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:~ #
```

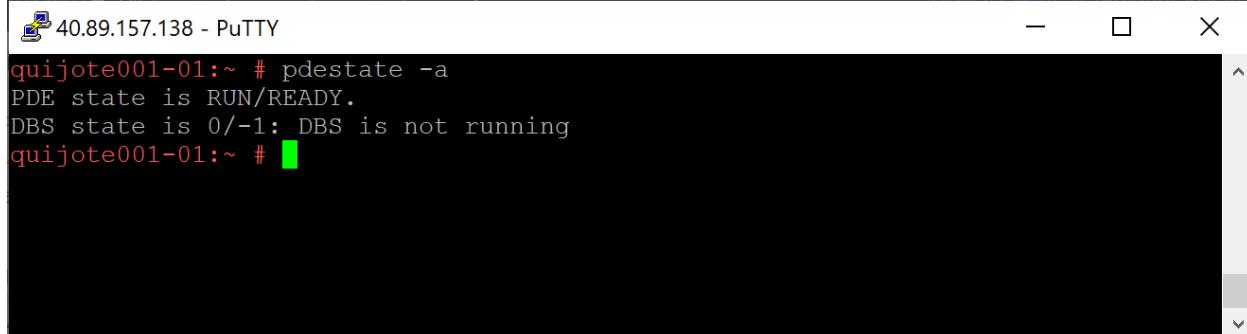
Restart the database: */etc/init.d/tpa start*. Putting the database in this state may take several minutes.



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*.

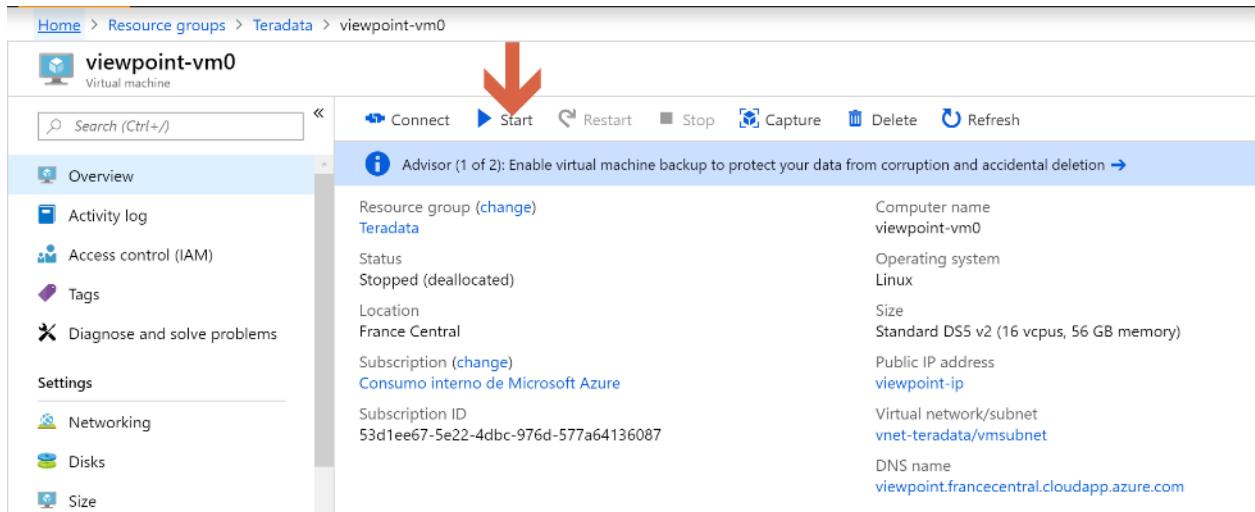


40.89.157.138 - PuTTY

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

Viewpoint

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



**viewpoint-vm0** Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop Capture Delete Refresh

Overview

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

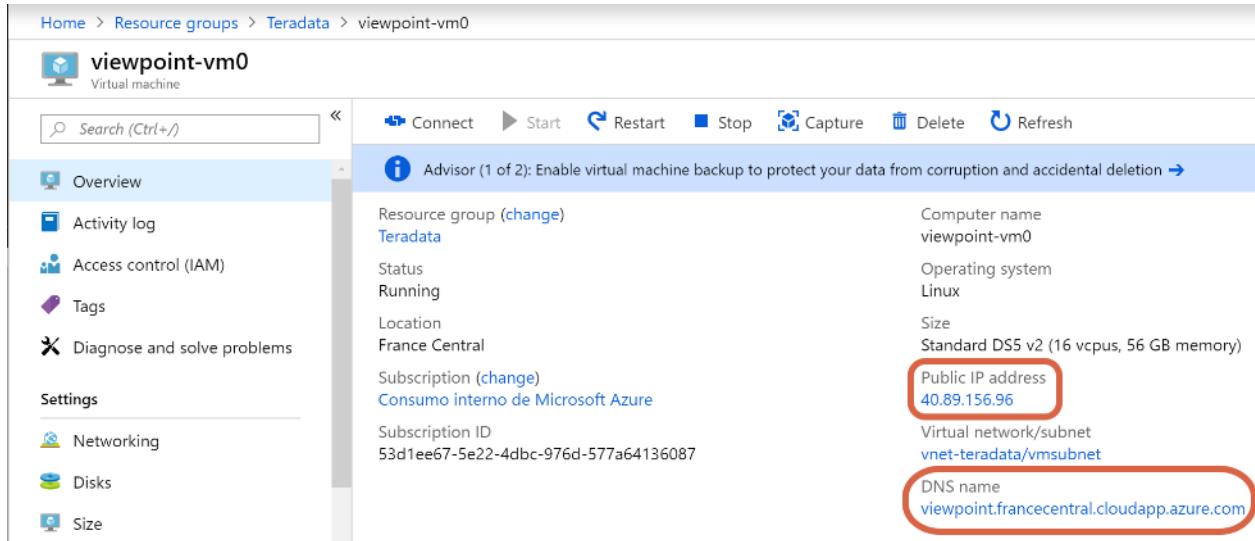
Size Standard DS5 v2 (16 vcpus, 56 GB memory)

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.



**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)

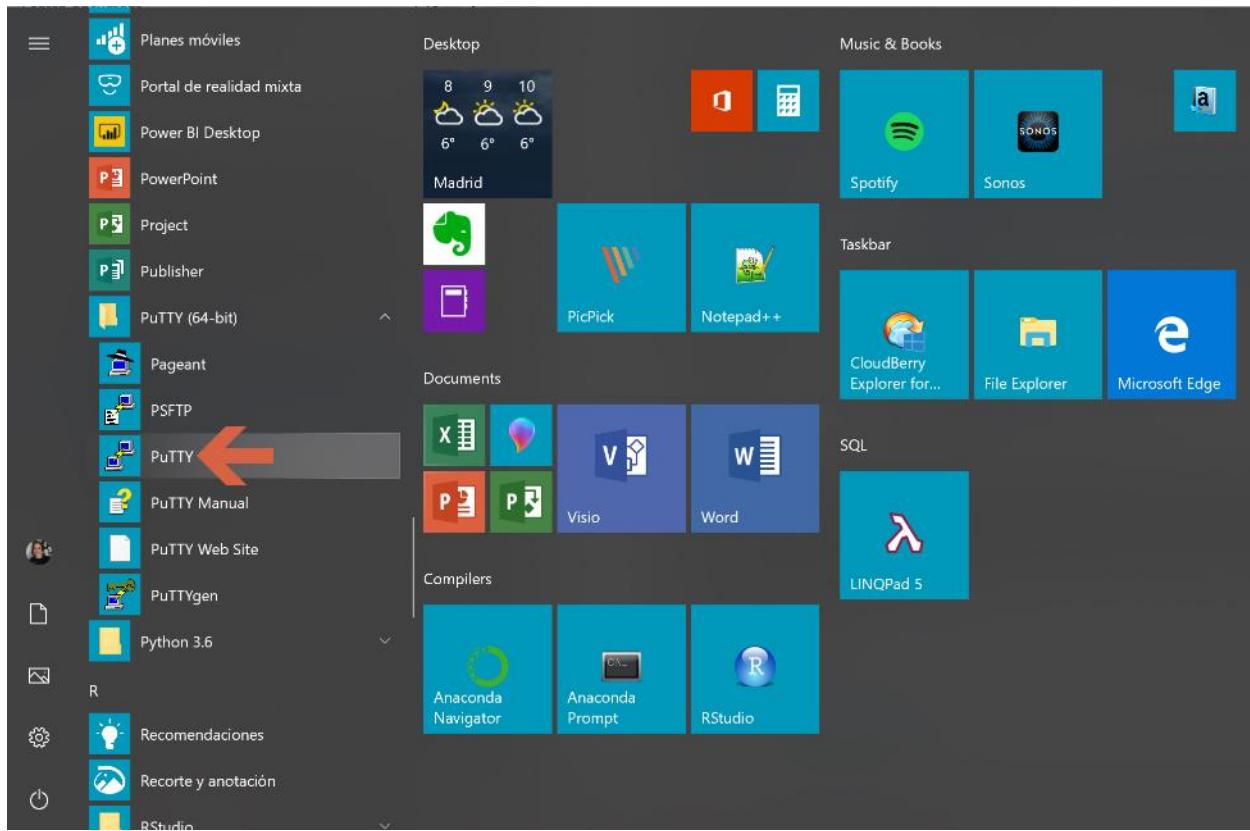
Public IP address **40.89.156.96**

Virtual network/subnet **vnet-teradata/vmsubnet**

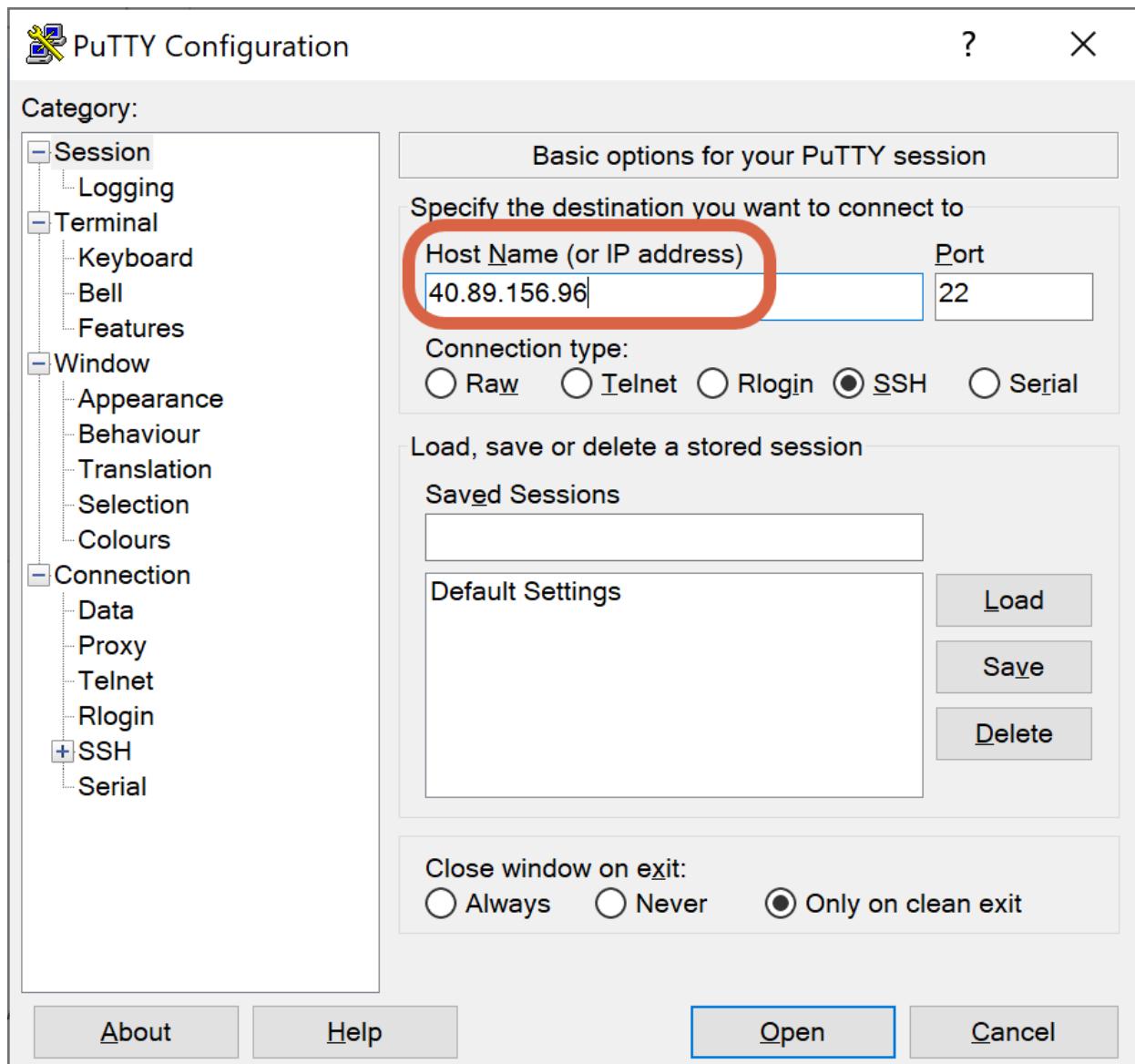
DNS name **viewpoint.francecentral.cloudapp.azure.com**

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](#).

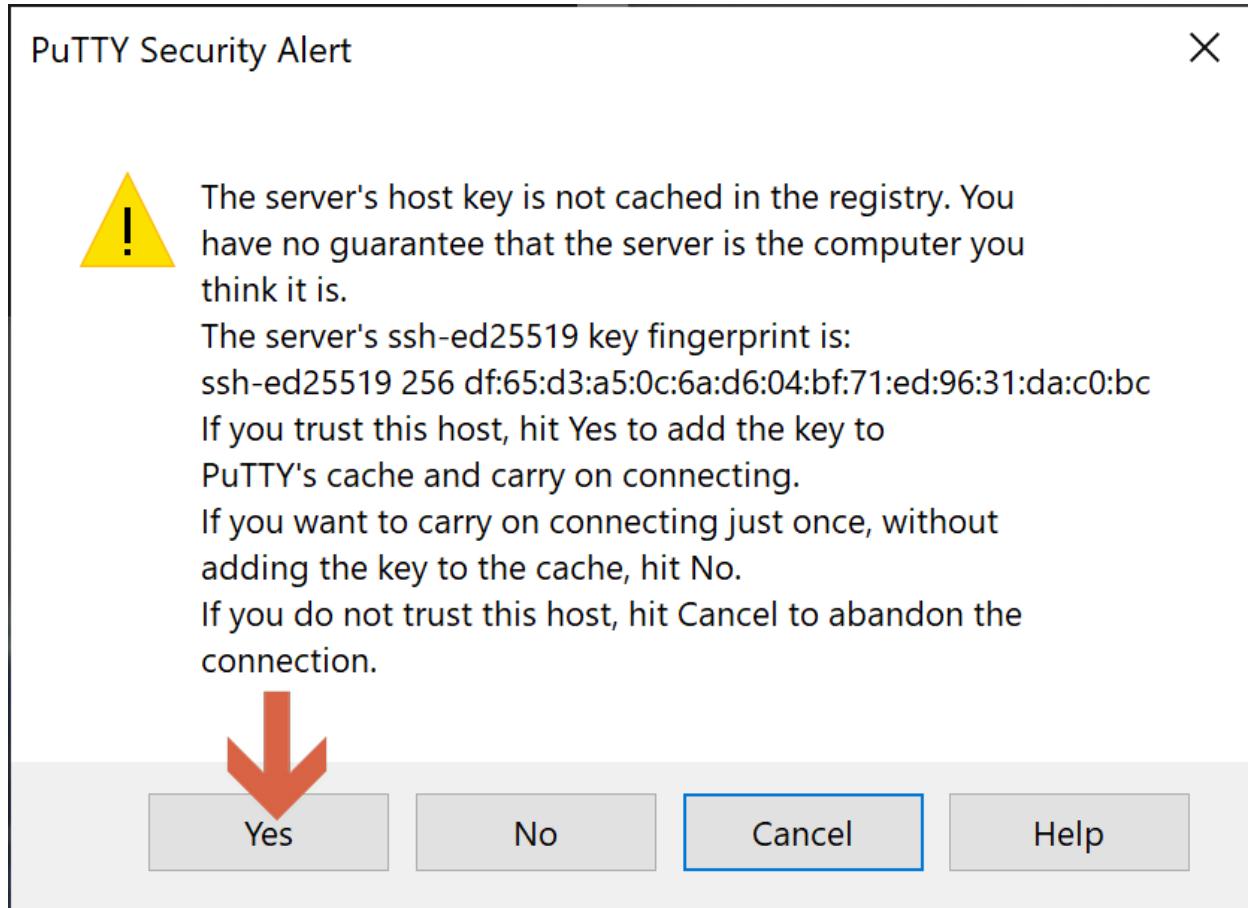
We open PuTTY.



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



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

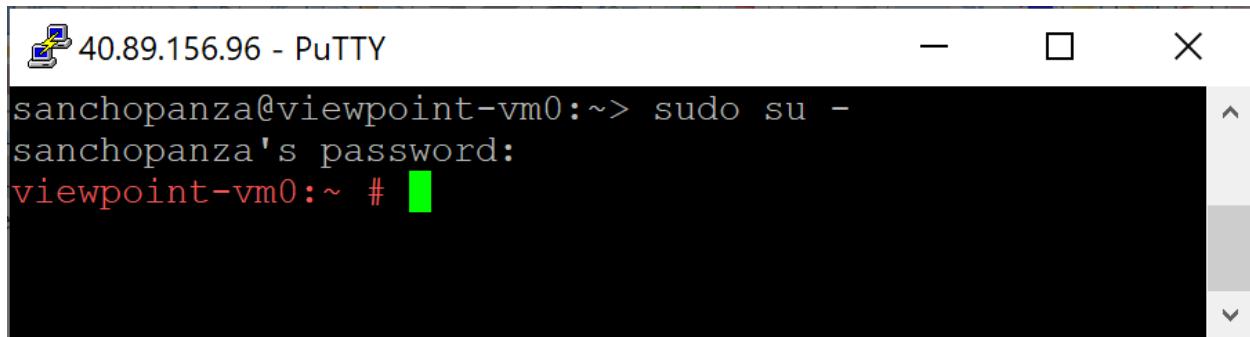


When prompted, provide with the OS user and password which you setup in screen 1, section 2.

A screenshot of a PuTTY terminal window. The title bar says "40.89.156.96 - PuTTY". The main pane displays a login prompt: "login as: sanchopanza" followed by "Using keyboard-interactive authentication.". A password field is shown below, indicated by a green placeholder character. The window has standard minimize, maximize, and close buttons at the top right.

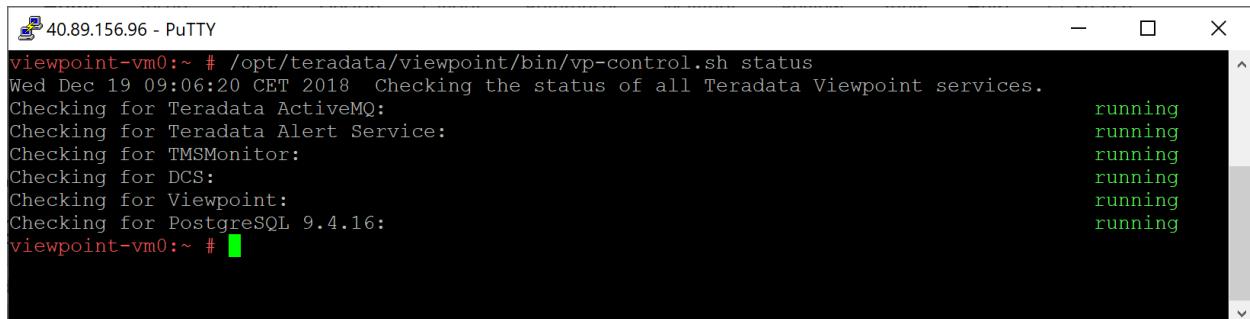
```
40.89.156.96 - PuTTY
login as: sanchopanza
Using keyboard-interactive authentication.
Password: █
```

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



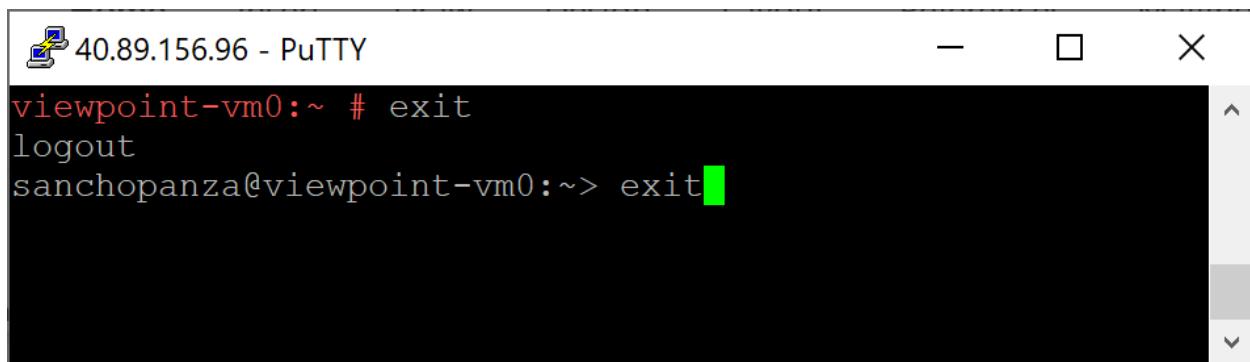
```
sanchopanza@viewpoint-vm0:~> sudo su -
sanchopanza's password:
viewpoint-vm0:~ #
```

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



```
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`.



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