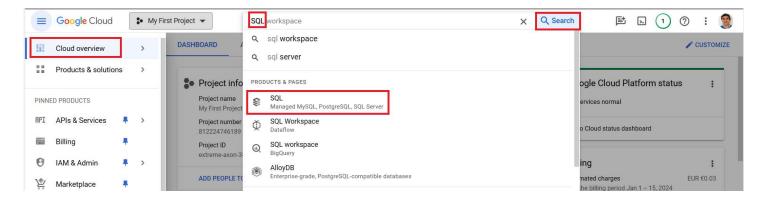
# How to create Google Cloud SQL Server instance and connect from SSMS, VSCode and Visual Studio 2022 Community Edition

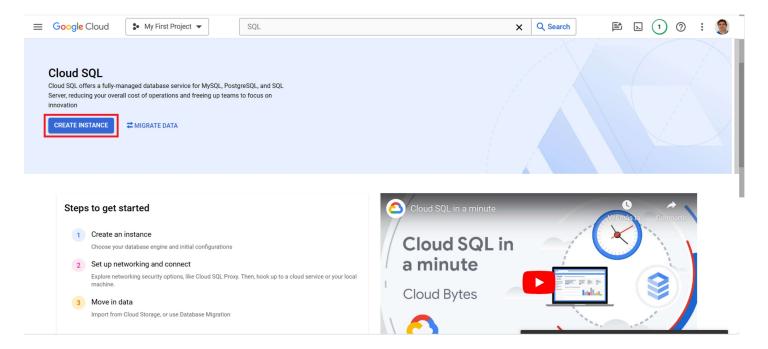
See this video: https://www.youtube.com/watch?v=ELTI7eS1Kdk

#### 1. Create Google Cloud SQL Server instance

We search for SQL in the components searching text box



We select SQL->Managed MySQL, PostgreSQL, SQL Server

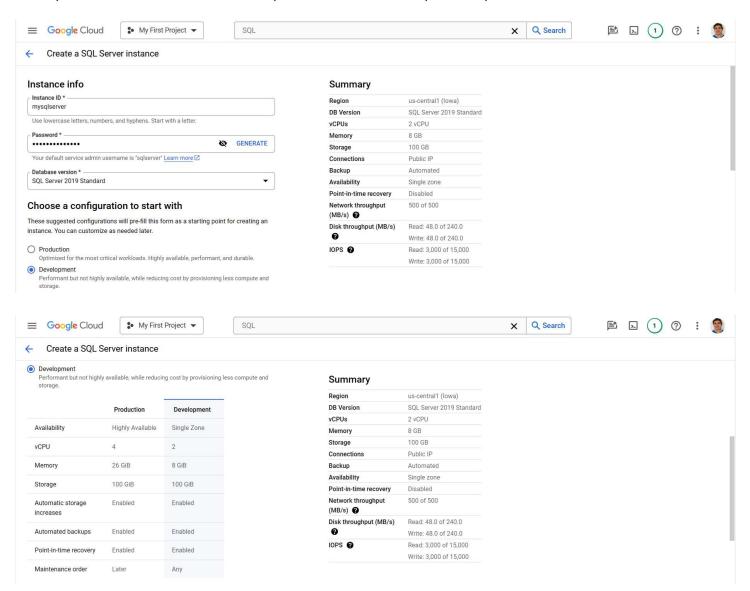


We choose SQL Server option

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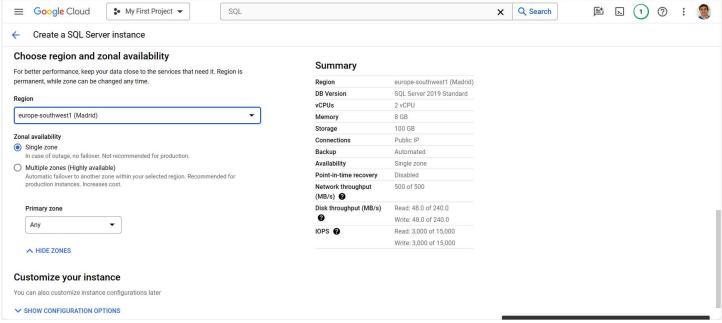


We input the server name, database password and Development option

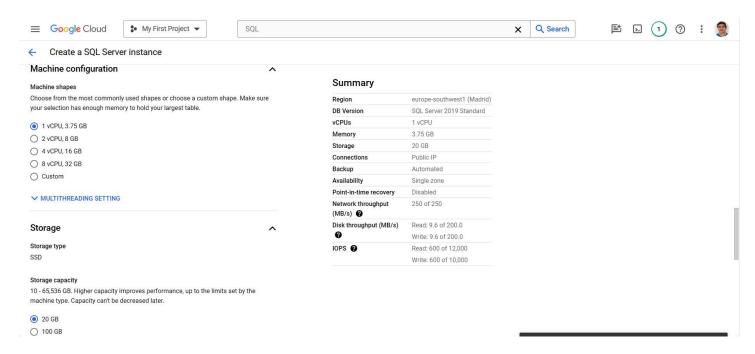


We select a Single zone and input the Region/location

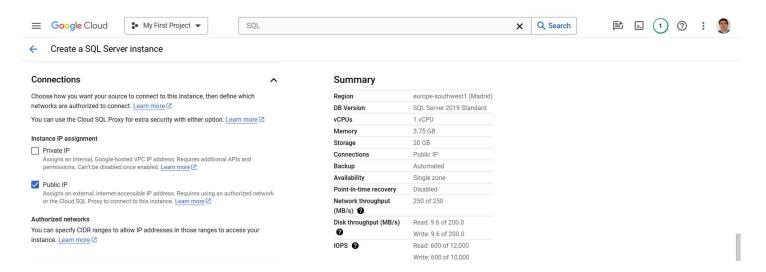
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#### We select the CPU/Memory and storage capacity

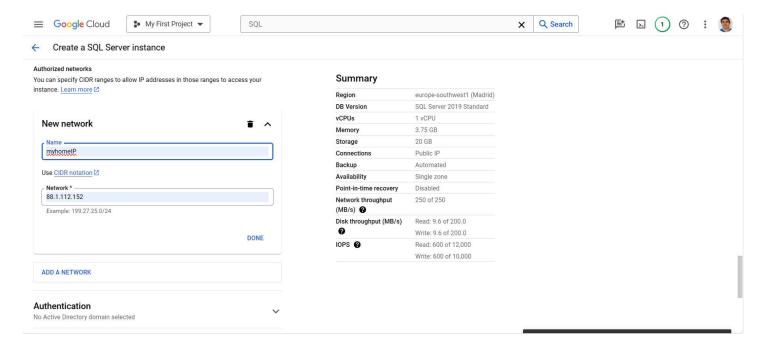


#### We select the Public IP in the Connection details

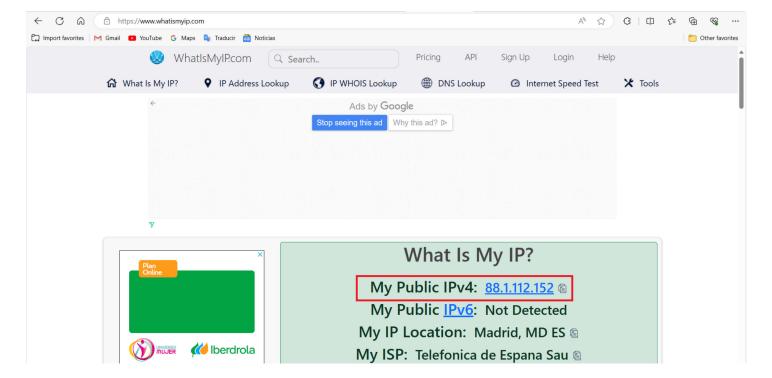


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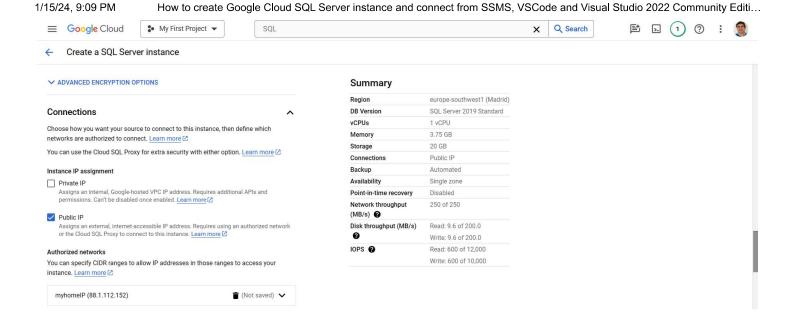
#### We add my laptop local IP and we press the Add a Network button



#### IMPORTANT NOTE: to get you local laptop IP navigate to the https://www.whatismyip.com/

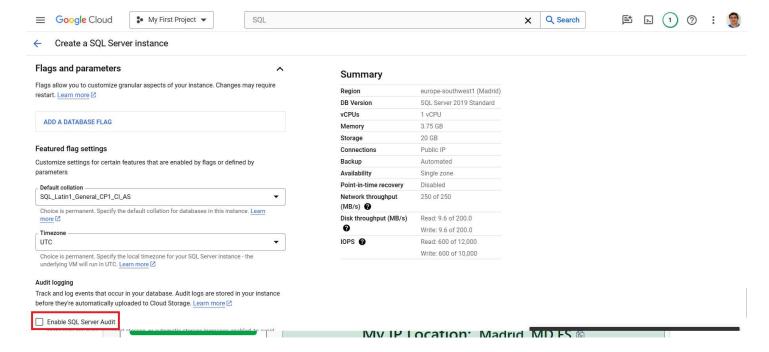


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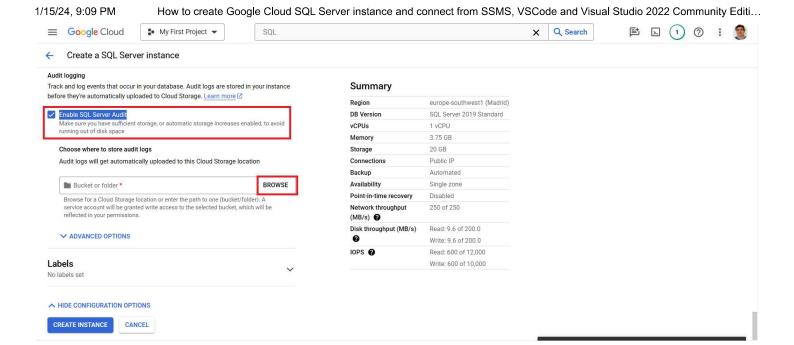


We unselect the Enable deletion protection option

#### In Featured Flag Setting we select Enable SQL Server Audit



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We create a new bucket for database logs

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#### Create a bucket

# Name your bucket

Pick a globally unique, permanent name. Naming guidelines [2]

mydatabaselogs

Tip: Don't include any sensitive information

✓ LABELS (OPTIONAL)

CONTINUE

# Choose where to store your data

Location: us (multiple regions in United States)

Location type: Multi-region

# Choose a storage class for your data

Default storage class: Standard

# Choose how to control access to objects

Public access prevention: On

Access control: Uniform

# Choose how to protect object data

Protection tools: None

Data encryption: Google-managed

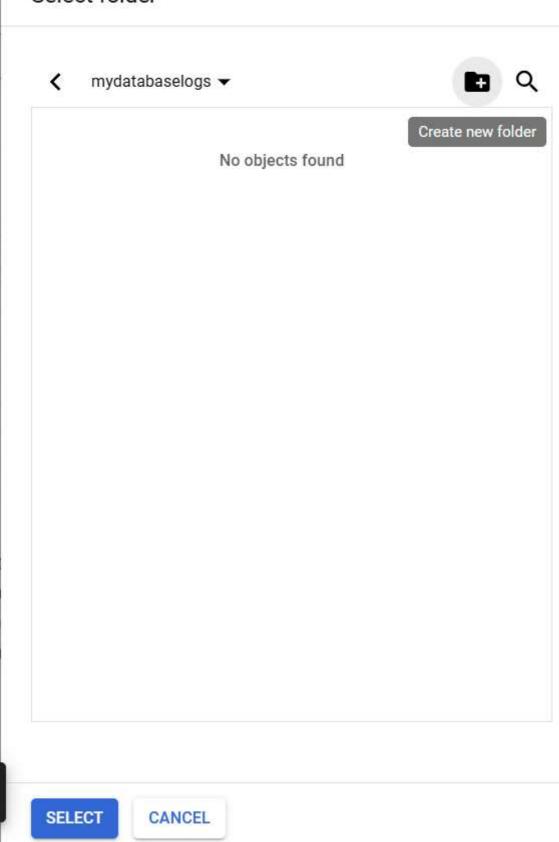
CREATE

CANCEL

We create a new folder inside the bucket

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## Select folder



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# Create folder

Cloud Storage uses a flat namespace, so uploading objects to a folder simply appends a path prefix to object names. Learn more 🗵

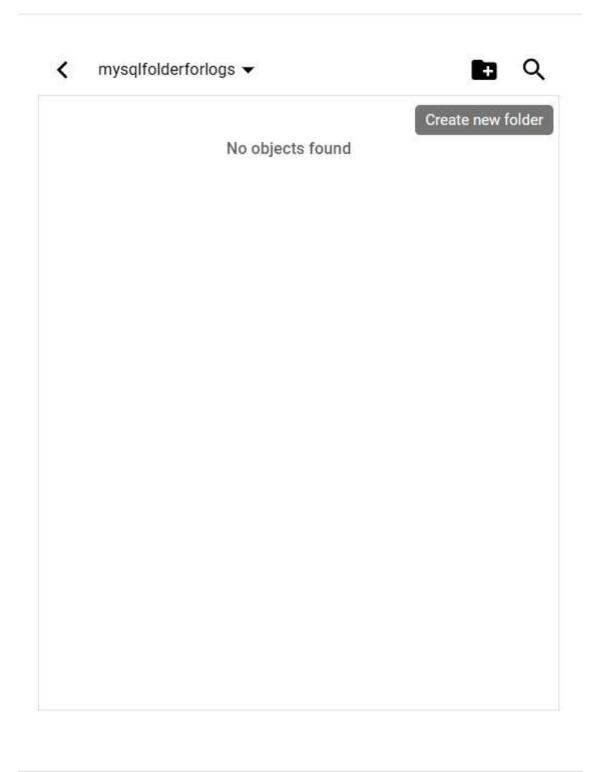




We select the folder inside the bucket

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# Select folder





We verify we select the folder

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#### Enable SQL Server Audit

Make sure you have sufficient storage, or automatic storage increases enabled, to avoid running out of disk space

#### Choose where to store audit logs

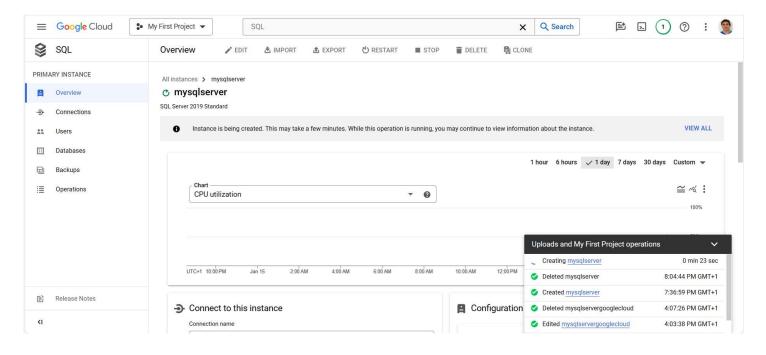
Audit logs will get automatically uploaded to this Cloud Storage location



Browse for a Cloud Storage location or enter the path to one (bucket/folder). A service account will be granted write access to the selected bucket, which will be reflected in your permissions.

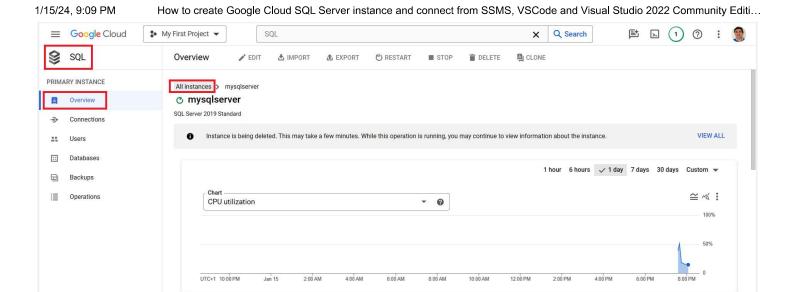
Finally we press the CREATE INSTANCE button

We verify we are creating a nw SQL Server instance



We can see the new SOL Server instance in the list

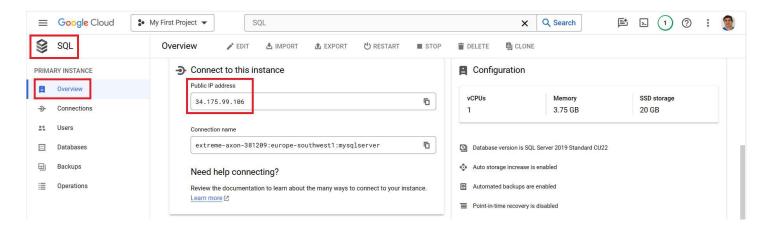
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We can press the Column display options button to add more fields info



The most important infor to copy for connecting to the database is the Public IP and the database user



# 2. Connect to Google Cloud SQL instance from SSMS

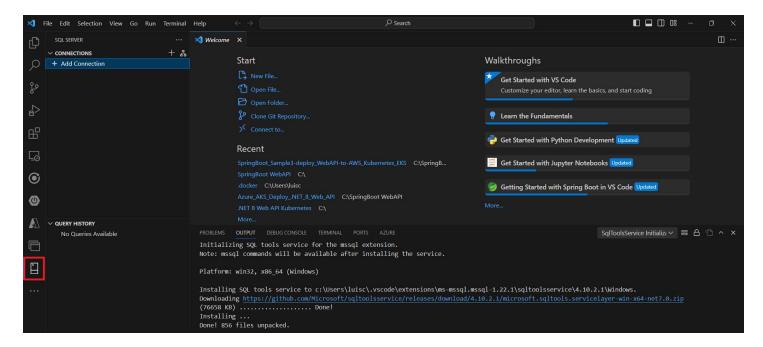
We run SSMS and we enter the SQL Server name and password

We can create a new database

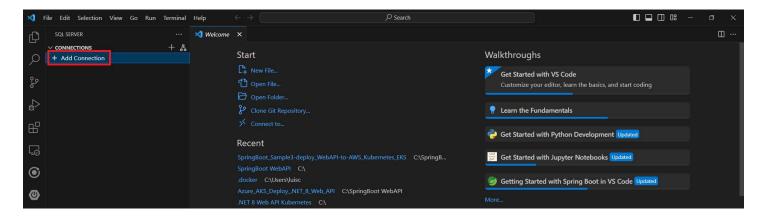
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#### 3. Connect to Google Cloud SQL instance from VSCode

We VSCode and we press **SQL Server** button in the left hand side menu



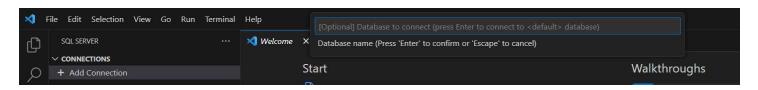
We create a new connection



We input the Public IP in the server name



We do not input any database name, we just press enter button



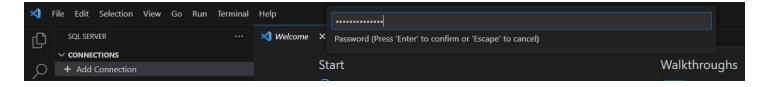
We select SQL login option

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We input the sqlserver user



We input the database password



We leave the default value for profile name

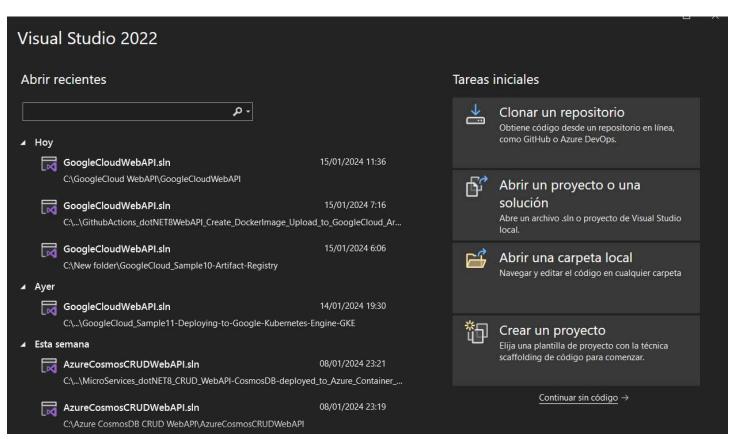
We also press Enable Trust Server Certificate

We verify the SQL Server connection

# 4. Connect to Google Cloud SQL instance from Visual Studio 2022 Community Edition

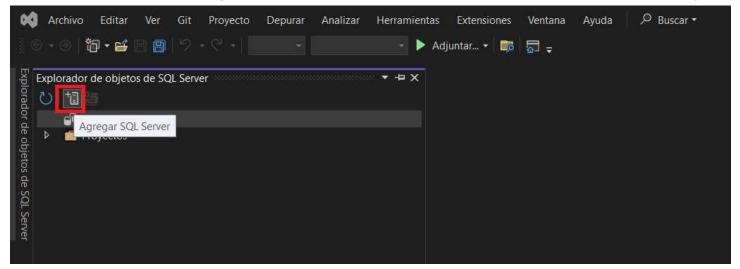
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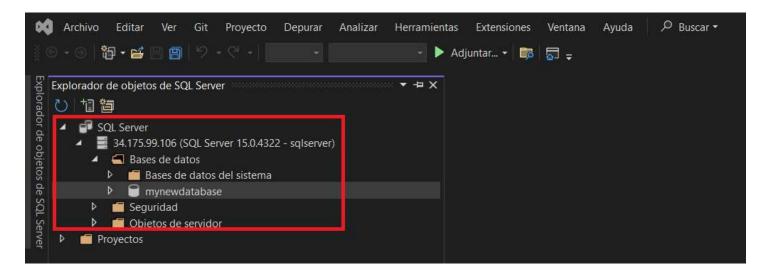
We add a new SQL Server connection

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We input the connection data

We verify the new SQL Server connection



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