



Procedimento - ElephantSQL

Utilização do SGDB PostgreSQL na Nuvem

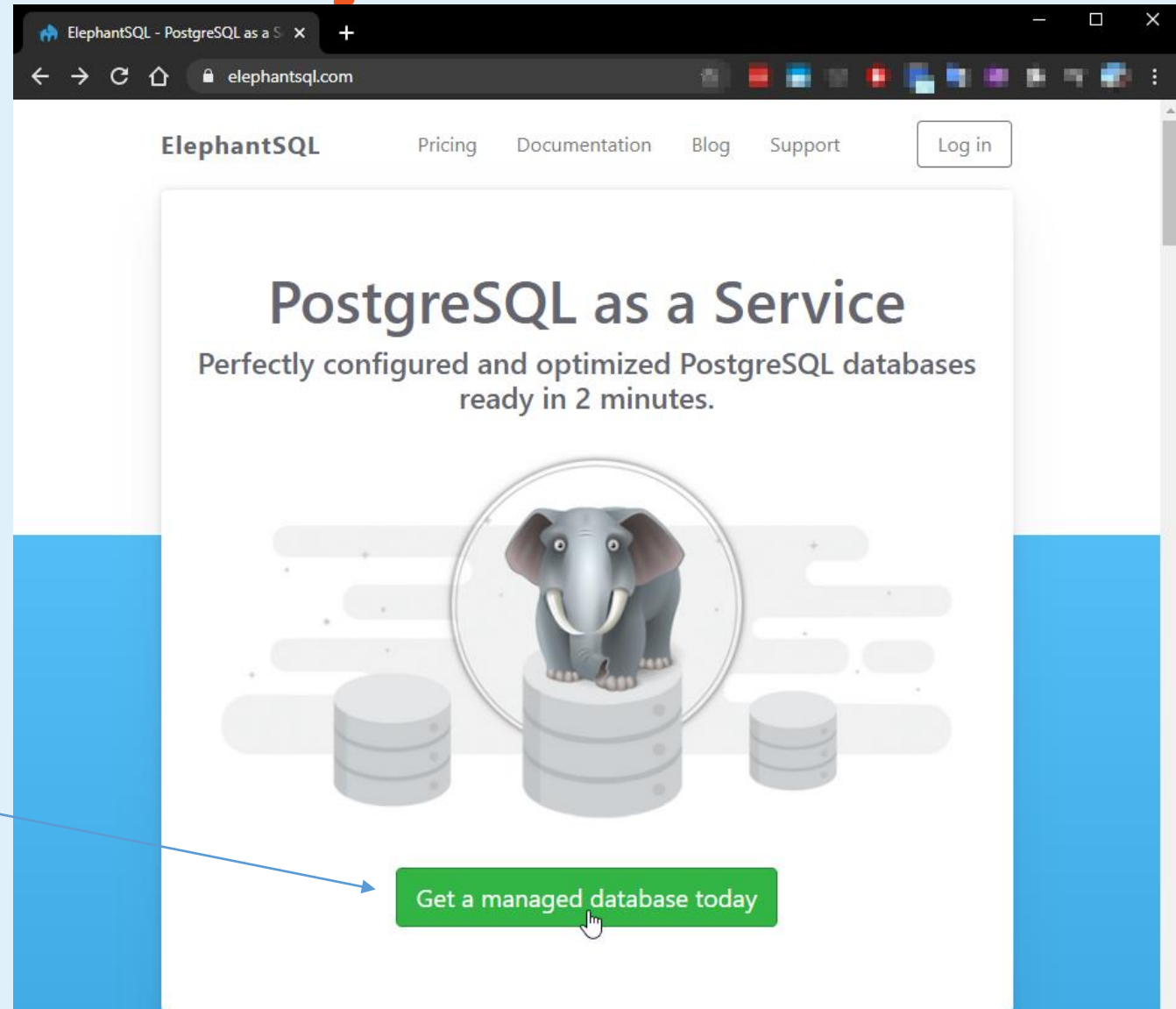
- ElephantSQL
 - <https://www.elephantsql.com/>
- PostgreSQL as a Service
 - Devido ao cenário atual, decorrente da pandemia, utilizaremos o laboratório na nuvem como serviço e com tecnologias atuais de mercado.
 - Automatiza todas as partes da configuração e execução do PostgreSQL em clusters.
 - Disponível nas principais plataformas de nuvem.

Utilização do SGDB PostgreSQL na Nuvem

- Utilizaremos o plano “Free” disponível.
- Necessário somente uma conta de e-mail ativa (por aluno).
- Performance e instância compartilhada do serviço (Free).
- Tamanho máximo da base de dados 20 MB.
 - Suficiente para os exercícios das aulas.

Criação da conta e obtenção dos dados

- Acessar a URL:
<https://www.elephantsql.com/>
- Clique em “Get a managed database today” iniciarmos a criação da conta.



Criação da conta e obtenção dos dados





- Nesse passo, selecionar a conta “FREE” denominada “Tiny Turtle” como a figura ao lado:
- !!! Muito importante selecionar somente essa opção para não haver custos !!!

Database Plans & Pricing

Server configurations are always tweaked for maximum performance and reliability.

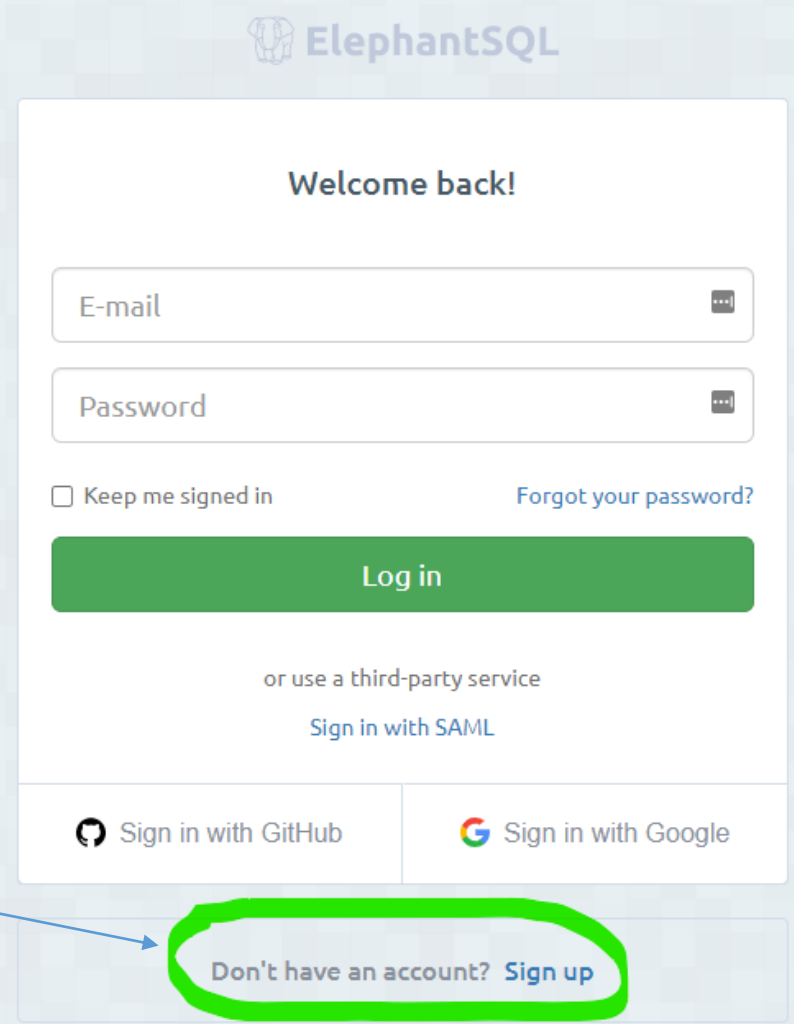
We are here to help you. Database administrator support is included in all paid plans.

Shared Instances

TINY TURTLE	SIMPLE SPIDER	CRAZY CAT	PRETTY PANDA
Shared high performance server	Shared high performance server	Shared high performance server	Shared high performance server
20 MB data	500 MB data	1 GB data	2 GB data
5 concurrent connections	10 concurrent connections	15 concurrent connections	20 concurrent connections
			
FREE GET STARTED	\$ 5 PER MONTH	\$ 10 PER MONTH	\$ 19 PER MONTH
Try now for FREE	Try now for \$5/month	Try now for \$10/month	Try now for \$19/month

Criação da conta e obtenção dos dados

- O procedimento seguirá para a criação de uma nova conta.
 - Caso já tenha uma conta, é só realizar o login com a sua própria conta.
- Clicar em “Sign up”...



The image shows the ElephantSQL login and sign-up interface. At the top, the ElephantSQL logo is displayed. Below it, the text "Welcome back!" is centered. There are two input fields: "E-mail" and "Password", each with a toggle icon on the right. Below the password field is a checkbox labeled "Keep me signed in" and a link "Forgot your password?". A large green button labeled "Log in" is positioned below these options. Underneath the "Log in" button, the text "or use a third-party service" is followed by a link "Sign in with SAML". At the bottom, there are two buttons: "Sign in with GitHub" and "Sign in with Google". At the very bottom, a link "Don't have an account? Sign up" is highlighted with a green oval. A blue arrow points from the "Sign up" text in the list on the left to this link.

ElephantSQL

Welcome back!

E-mail



Password

☐ Keep me signed in [Forgot your password?](#)

Log in

or use a third-party service

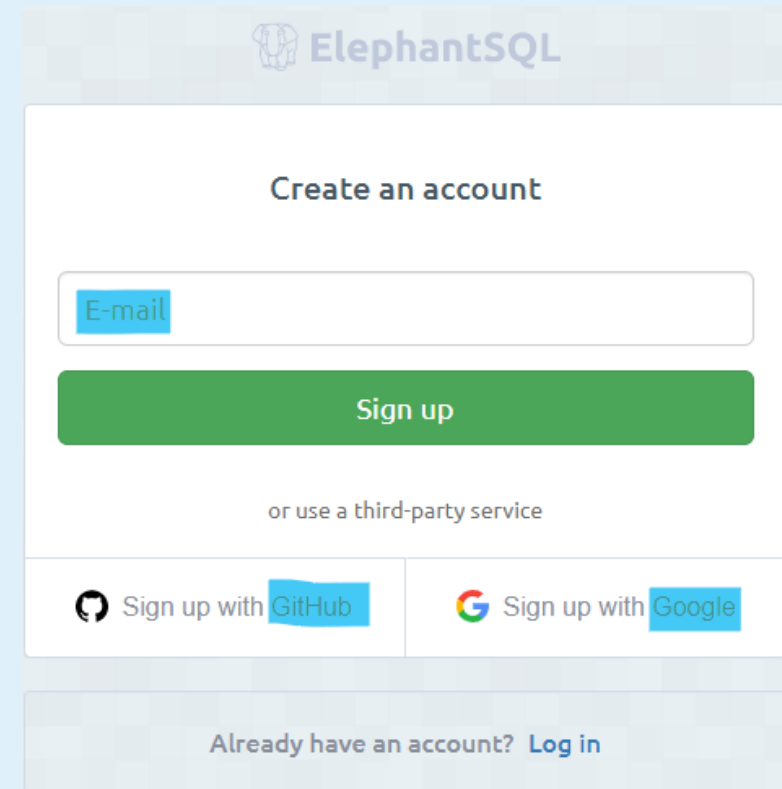
[Sign in with SAML](#)

 Sign in with GitHub  Sign in with Google

Don't have an account? [Sign up](#)

Criação da conta e obtenção dos dados

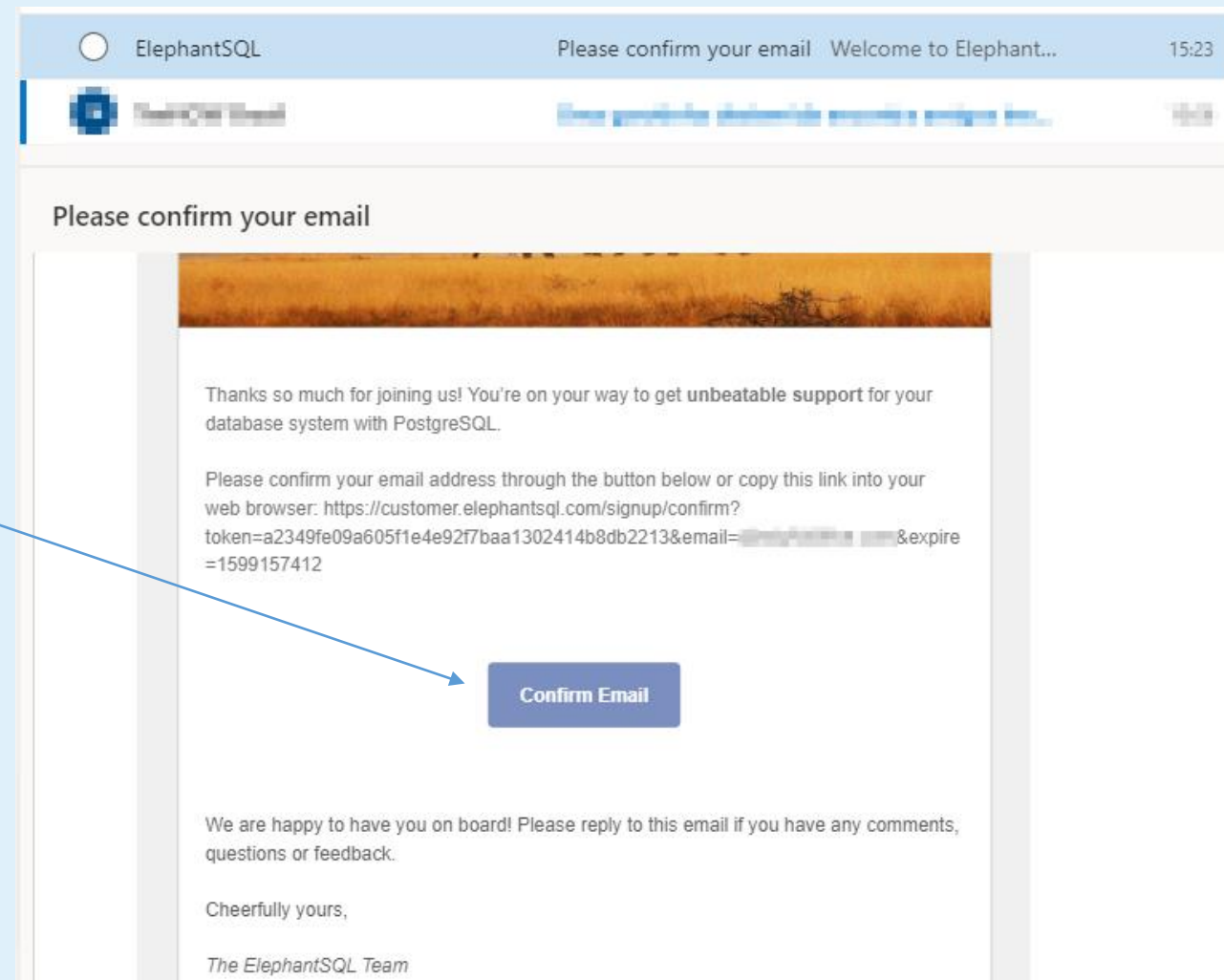
- Entre com o e-mail. Será necessário acessar a caixa postal do seu e-mail para continuar, confirmando o pedido e recebimento do e-mail.
- Para quem tem conta do Google ou GitHub, é possível utilizar o cadastro e já partir para o slide 10.



The image shows the 'Create an account' form for ElephantSQL. At the top is the ElephantSQL logo. Below it is the heading 'Create an account'. There is a text input field labeled 'E-mail'. Below the input field is a green 'Sign up' button. Underneath the button is the text 'or use a third-party service'. There are two buttons for third-party services: 'Sign up with GitHub' and 'Sign up with Google'. At the bottom of the form is a link that says 'Already have an account? Log in'.

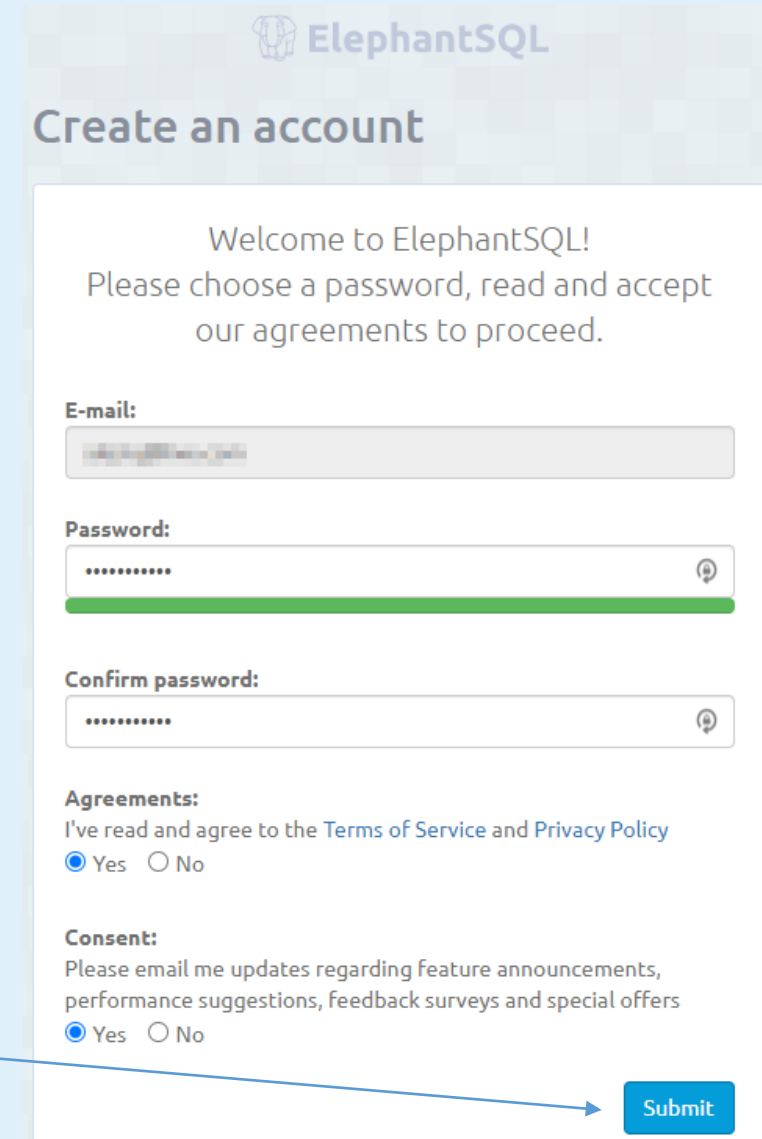
Criação da conta e obtenção dos dados

- Confirmando o e-mail
 - O e-mail enviado deve ser parecido com a figura ao lado:
 - Click em “Confirm Email”



Criação da conta e obtenção dos dados

- Após confirmar o e-mail, será redirecionado para a tela ao lado.
- Escolha e confirme a senha
- Se estiver de acordo, concorde com os termos.
- Em “Consent” se não quiser receber os e-mails, pode selecionar a opção “No”, que criará a conta.
- Clique em “Submit”



The screenshot shows the 'Create an account' page for ElephantSQL. At the top, the ElephantSQL logo is displayed. Below it, the heading 'Create an account' is visible. The main content area contains a welcome message: 'Welcome to ElephantSQL! Please choose a password, read and accept our agreements to proceed.' Below this, there are three input fields: 'E-mail:', 'Password:', and 'Confirm password:'. The 'Password:' field has a green progress bar underneath it. Below the input fields, there are two sections: 'Agreements:' and 'Consent:'. The 'Agreements:' section includes the text 'I've read and agree to the Terms of Service and Privacy Policy' and two radio buttons, 'Yes' (selected) and 'No'. The 'Consent:' section includes the text 'Please email me updates regarding feature announcements, performance suggestions, feedback surveys and special offers' and two radio buttons, 'Yes' (selected) and 'No'. At the bottom right, there is a blue 'Submit' button. A blue arrow from the 'Submit' button in the list on the left points to this button.

ElephantSQL

Create an account

Welcome to ElephantSQL!
Please choose a password, read and accept our agreements to proceed.

E-mail:
[input field]

Password:
[input field] [password icon]

Confirm password:
[input field] [password icon]

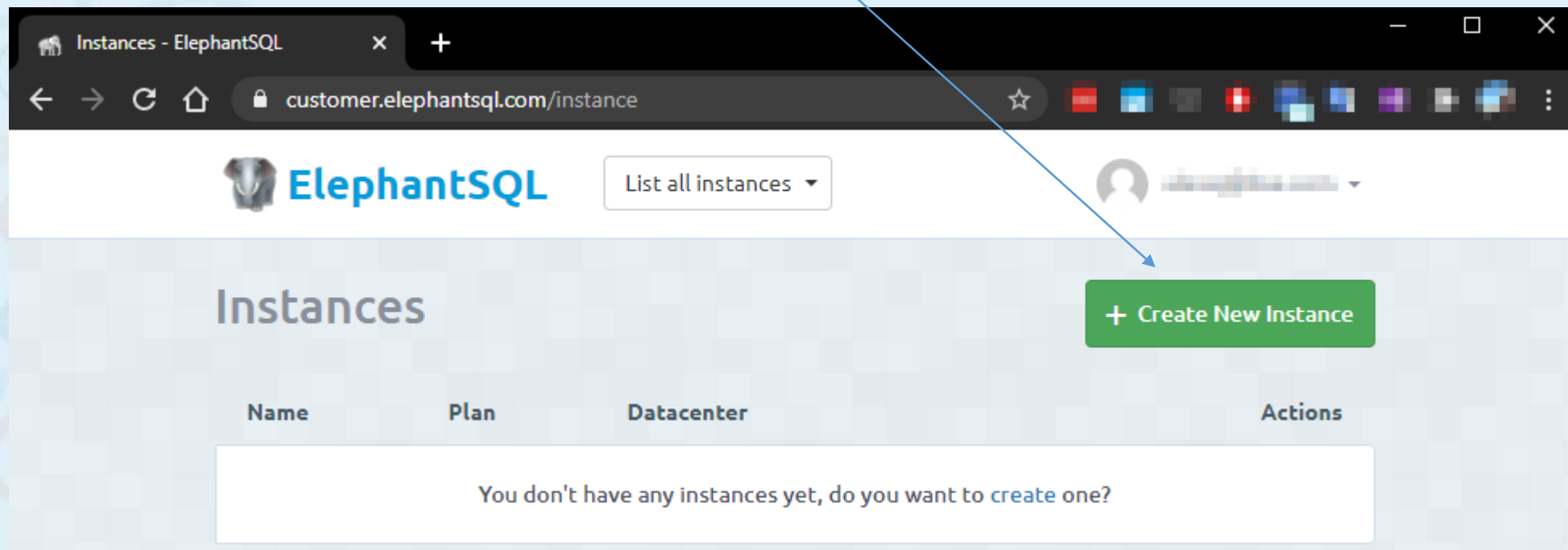
Agreements:
I've read and agree to the [Terms of Service](#) and [Privacy Policy](#)
☒ Yes ☐ No

Consent:
Please email me updates regarding feature announcements, performance suggestions, feedback surveys and special offers
☒ Yes ☐ No

Submit

Criação da Instância

- Se a criação da conta ocorrer sem problemas, deve ser exibida a página a seguir com opção para criar a instância:
- Clicar em “+ Create New Instance” para iniciarmos...



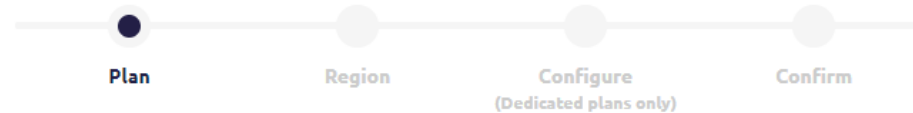
Criação da Instância

- Inserir o nome da instância (tome nota)
- Deve estar sugerido o plano escolhido “TINY TURTLE (FREE). MANTENHA para não haver custos.
- As Tags são opcionais.
- Click em “Select Region” para avançarmos.

Create new instance

No credit card Please add a credit card if you want to subscribe to a paid plan

Missing billing information Please fill in all required information if you want to subscribe to a paid plan



Select a plan and name - Step 1 of 4

Name

Plan

Tags

Tags are used to separate your instances between projects. This is primarily used in the project listing view for easier navigation and access control.

Tags allow admins to [manage team members access](#) to different groups of instances.

Plan



Tiny Turtle

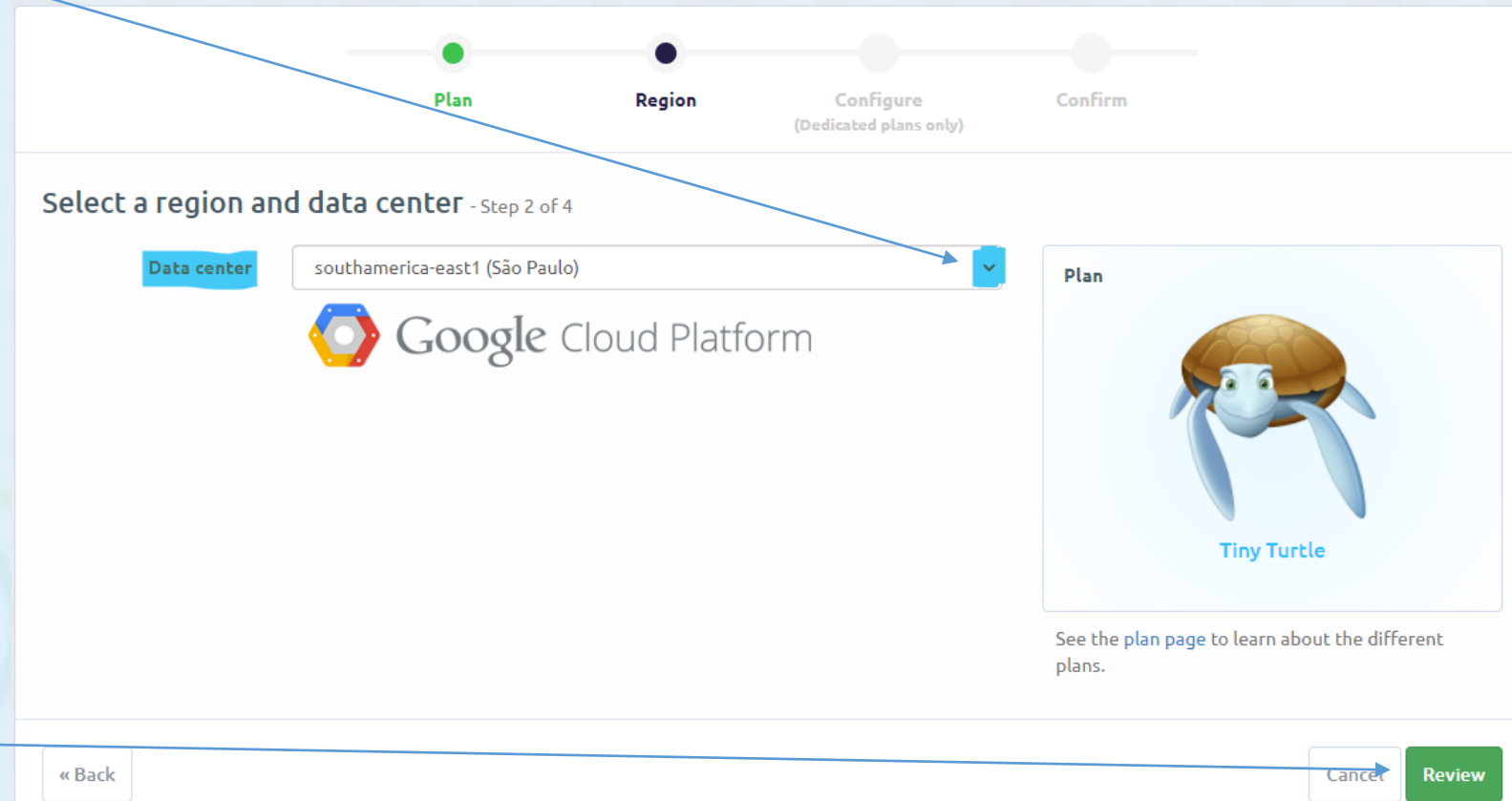
See the [plan page](#) to learn about the different plans.

Cancel

Select Region

Criação da Instância

- Selecione o “Data Center” conforme a localidade por questão de velocidade.
- Abra o “menu drop-down” e escolha data center localizado no Brasil.
- Fique a vontade para escolher qualquer serviço, seja AWS, Google, Azure ou IBM.
- Sugerimos o Google Cloud Platform, localizado em “São Paulo”:
- Click em “Review”



The screenshot shows the 'Select a region and data center' step (Step 2 of 4) in the Google Cloud Platform console. At the top, a progress bar indicates the current step is 'Plan' (green dot), followed by 'Region' (dark blue dot), 'Configure (Dedicated plans only)' (light gray dot), and 'Confirm' (light gray dot). Below the progress bar, the title 'Select a region and data center - Step 2 of 4' is displayed. A 'Data center' label is next to a dropdown menu showing 'southamerica-east1 (São Paulo)'. A blue arrow points from the text 'Abra o “menu drop-down” e escolha data center localizado no Brasil.' to this dropdown. Below the dropdown is the Google Cloud Platform logo. To the right, a 'Plan' section features a cartoon turtle named 'Tiny Turtle' and a link to 'See the plan page to learn about the different plans.' At the bottom, there are three buttons: '« Back', 'Cancel', and 'Review'. A blue arrow points from the text 'Click em “Review”' to the 'Review' button.


Criação da Instância

- Finalize a criação clicando em “Create instance”:

Plan Region Configure (Dedicated plans only) Confirm

Confirm new instance - Step 4 of 4

Plan



Tiny Turtle

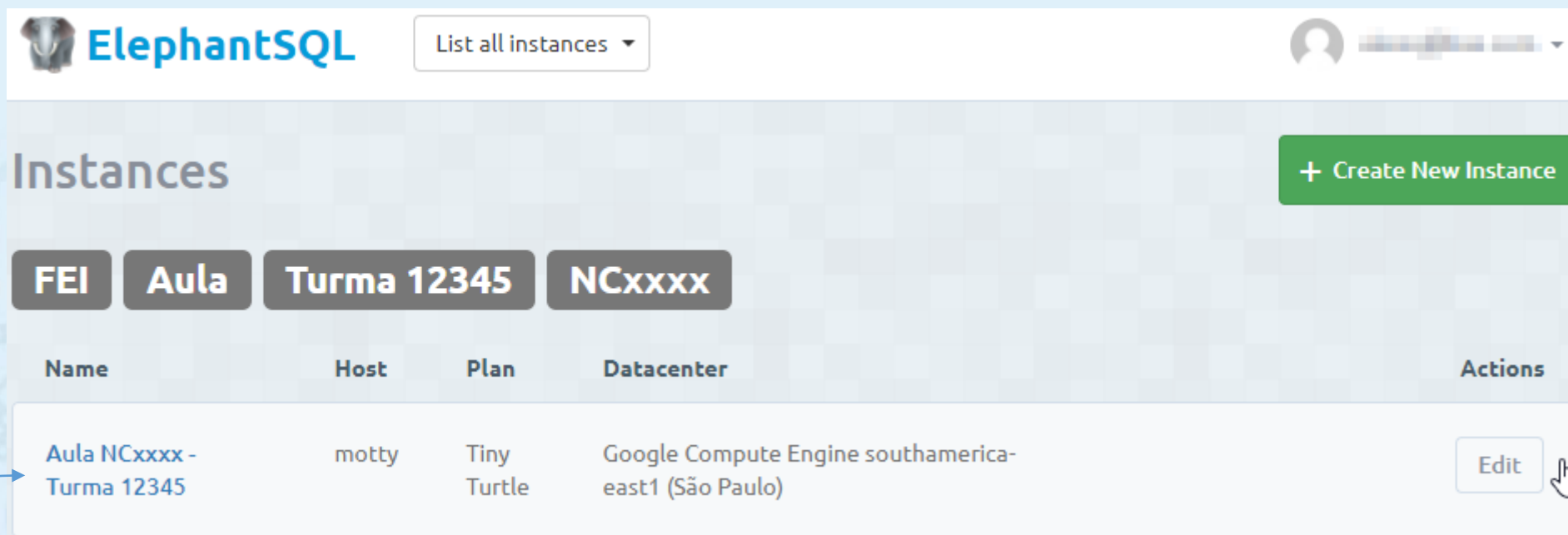
Total: Free

Name:	Aula NCxxxx - Turma 12345
Provider:	Google Compute Engine
Region:	southamerica-east1 (São Paulo)
Tags:	FEI, Aula, Turma 12345, NCxxxx

« Back Cancel Create instance ✓

Criação da Instância

- Em caso de sucesso, deve aparecer a seguinte tela com a nossa instância criada:



The screenshot shows the ElephantSQL dashboard. At the top, there's a header with the ElephantSQL logo, a dropdown menu labeled 'List all instances', and a user profile icon. Below the header, the main section is titled 'Instances'. On the right side of this section, there's a green button labeled '+ Create New Instance'. Below the title, there are four filter buttons: 'FEI', 'Aula', 'Turma 12345', and 'NCxxxx'. Below these filters is a table with the following columns: 'Name', 'Host', 'Plan', 'Datacenter', and 'Actions'. The table contains one row with the following data: 'Aula NCxxxx - Turma 12345' (Name), 'motty' (Host), 'Tiny Turtle' (Plan), 'Google Compute Engine southamerica-east1 (São Paulo)' (Datacenter), and an 'Edit' button (Actions). A blue arrow points from the 'Aula NCxxxx - Turma 12345' text in the table to the text in the bullet point below.

Name	Host	Plan	Datacenter	Actions
Aula NCxxxx - Turma 12345	motty	Tiny Turtle	Google Compute Engine southamerica-east1 (São Paulo)	Edit

- Clique no nome para acessarmos os detalhes da conexão.

Criação da Instância

- Em “Details” vemos as informações:

- Server: motty.db.elephantsql.com
- User: gexkyuqp
- Database: gexkyuqp
- Password: p-1Ccv... (xxxxx)

- Tomar nota dessas informações para conexões no pgAdmin ou via console.

- Para quem souber utilizar via API, pode obter a chave logo abaixo:

ElephantSQL Aula NCxxxx - Turma 12345

DETAILS

Details

Server motty.db.elephantsql.com (motty-01)

User & Default database gexkyuqp [Reset](#)


Password p-1Ccv... [Reset](#)

URL postgres://gexkyuqp:p-1Ccv...@motty.db.elephantsql.com:5432/gexkyuqp

Current database size

Max database size 20 MB

Active Plan


Tiny Turtle

[Upgrade Instance](#)

API access

Control your instance via our [HTTP API](#).

API Key 757973... [Reset](#)

Acessando o banco pelo Browser do ElephantSQL

- No menu à esquerda, clique em “Browser”.
- Abrirá a caixa para inserir a consulta “SQL Query”:
- Vamos verificar a versão do PostgreSQL com a seguinte query:

- `select version();`

- Deve mostrar:

The screenshot displays the ElephantSQL web interface. At the top, the ElephantSQL logo is on the left, a dropdown menu shows 'Aula NCxxxx - Turma 12345', and a user profile icon with 'alesiq@live.com' is on the right. A green notification box in the top right corner states 'Query completed'. On the left sidebar, the 'BROWSER' menu item is highlighted. The main area, titled 'SQL Browser', contains a text input field with the query 'select version();'. Below the input are two dropdown menus labeled 'Table queries' and 'Previous queries', and a blue 'Execute' button. The query result is displayed below, showing the text 'version' followed by a horizontal line and the full PostgreSQL version string: 'PostgreSQL 11.5 (Ubuntu 11.5-3.pgdg18.04+1) on x86_64-pc-linux-gnu, compiled by gcc (Ubuntu 7.4.0-1ubuntu1~18.04.1) 7.4.0, 64-bit'.