AGP email GP help

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1. What does the package contain?
- Toolbox for pro
- Help file

2. What is geoprocessing?
ArcGIS Pro | Other versions| Help archive

Geoprocessing is a framework and set of tools for processing geographic and related data. The comprehensive suite of geoprocessing tools can be used to perform spatial analysis or manage GIS data in an automated way. Geoprocessing is for everyone that uses ArcGIS Pro. Whether you are a new or advanced user, geoprocessing will likely be an essential part of your day-to-day work.
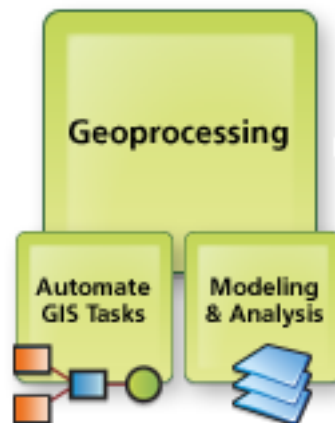
Geoprocessing is used to automate GIS tasks and for modeling and analysis.

A typical geoprocessing tool performs an operation on a dataset such as a feature class, raster, or table, and creates a resulting output dataset. For example, the Buffer tool takes features as input, creates buffer areas around the features to a specified distance, and writes those buffer areas to a new output dataset.
Additional resources from ESRI that will help you.

What is geoprocessing?

Geoprocessing quick tour

Customize ArcGIS Pro with geoprocessing tools

What is ModelBuilder?

ModelBuilder Add and connect data and tools and modify elements

Create a model tool

Use ModelBuilder

Run a model in ModelBuilder

3. How to use?

- **Add to project:** To use the tool, you first need to add it to your ArcGIS Pro project. Using the attachment sent to the email, unzip the toolbox and then add to your project.

Add an existing toolbox to a project

You can add an existing toolbox to the catalog's **Toolboxes** container . This allows you to access the toolbox without browsing to a folder or database.

- Open the **Add Toolbox** browse dialog box by using any of the following methods:

On the ribbon	Click the **Insert** tab. In the **Project** group, click **Toolbox** and click **Add Toolbox** .
In the **Contents** pane of a catalog view	Click **Toolboxes** . On the ribbon, click the **Catalog** tab. In the **Create** group, click **Add** ＋ and click **Add Toolbox** .
In the **Catalog** pane	On the **Project** tab, right-click **Toolboxes** and click **Add Toolbox** .

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- Browse to and select one or more toolboxes on your local computer, on a network computer, or in a file geodatabase.
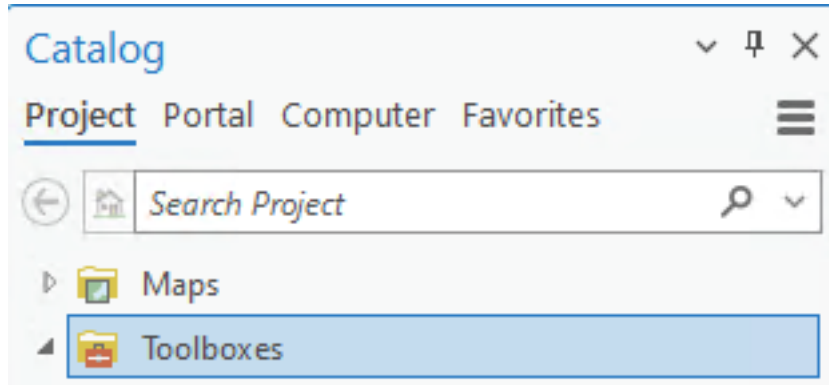- Click **OK**.

The toolbox appears in the **Toolboxes** container in the **Catalog** pane and the **Contents** pane of a catalog view.

You can also add a toolbox to a project using the following methods:

In the **Catalog** pane, a catalog view, or the **Contents** pane of a catalog view	○ Browse to a toolbox, right-click it, and click **Add To Project** ＋.
	○ Browse to a toolbox, select it, and drag it to the **Toolboxes** container in the **Catalog** pane or the **Contents** pane of a catalog view.

|	
In File Explorer	Browse to a toolbox, select it, and drag it to the **Catalog** pane or the **Contents** pane of a catalog view. It appears in the **Toolboxes** container 🧰.

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- **Open ArcGIS Pro in a new or existing project:** You can either start a new project or open an existing one, depending on your specific needs.
- **Open the catalog:** In ArcGIS Pro, the Catalog pane is where you manage your data, tools, and projects.


- **Select right mouse button:** Right-click on the toolbox to access its functions.
- **From the menu, point to add toolbox:** In the context menu, you can choose to add the toolbox to your project.
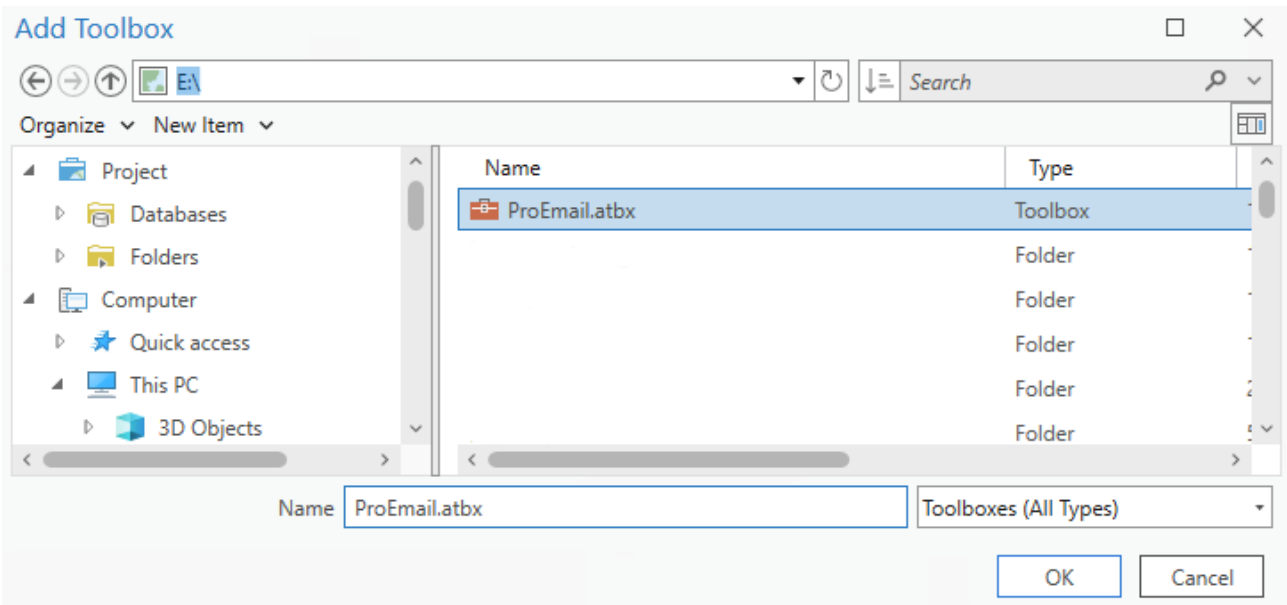

- **You navigate to the once archived tool:** Once you've added the toolbox, you can locate the specific tool you want to use.
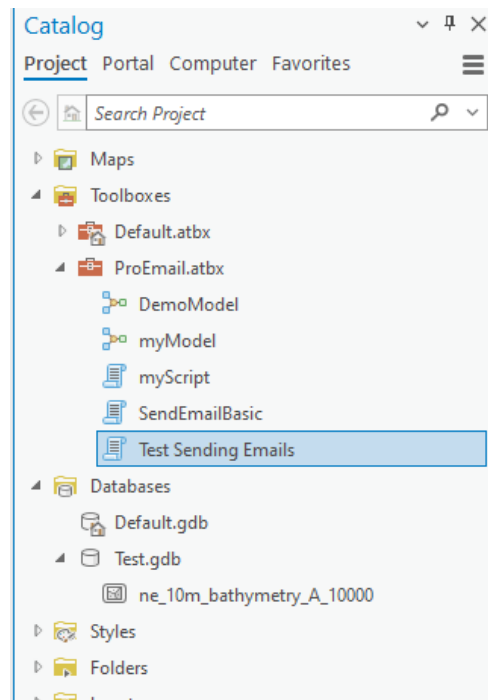
- **Add to project:** If you want to make it easier to access frequently used tools, you can copy the contents of the toolbox to your own toolbox within the project.
- Configure Parameters for **Sending Test Email**:
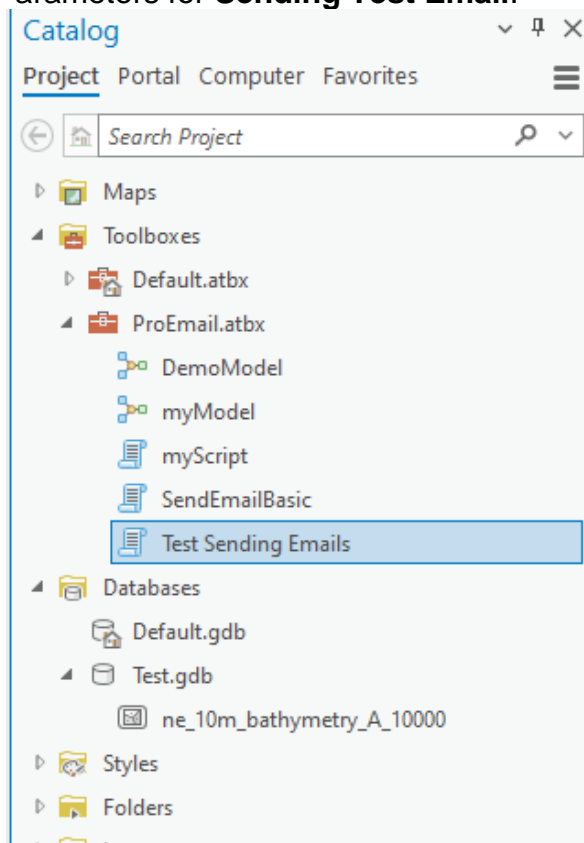
- Right-click to select "Test Sending Emails" and go to Properties.
- Choose Parameters. To receive emails, fill in the login_email with the email address used during the subscription. This email address will be validated for sending emails.
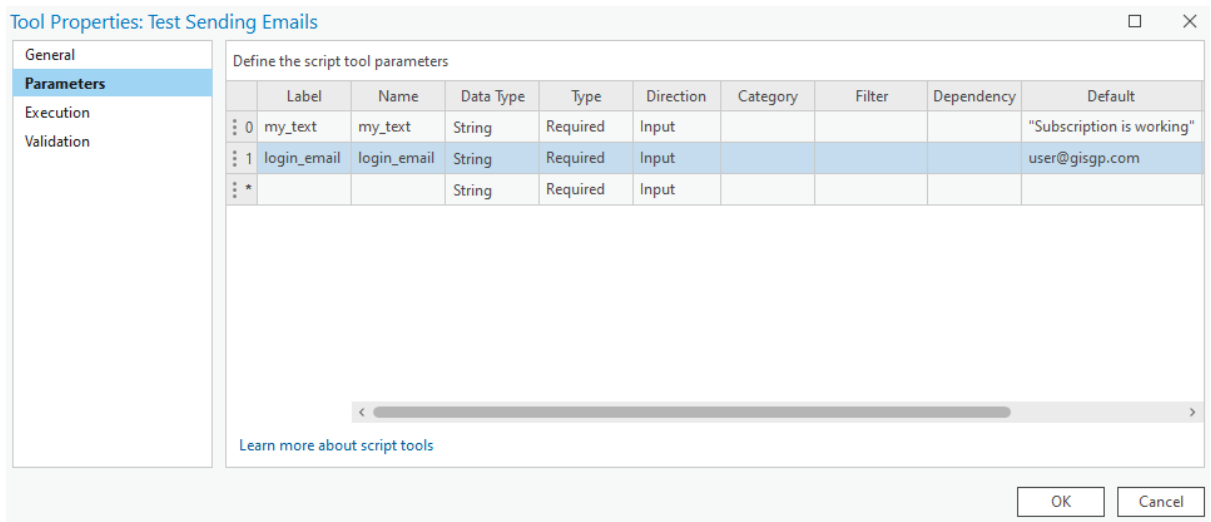
- Without a valid email, an error will occur in the GP message.
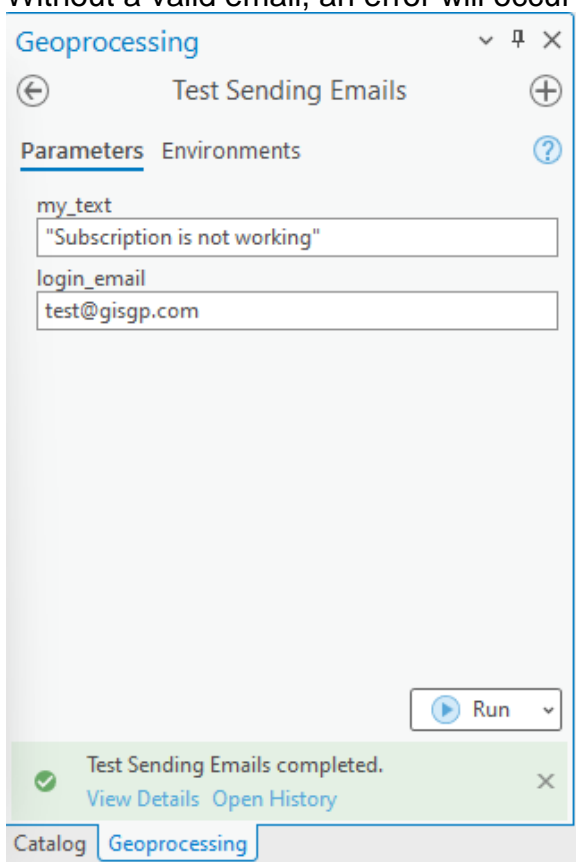
- To view details, select "View Detail."

- With a valid email, the message will confirm to check your mailbox for the sent email.
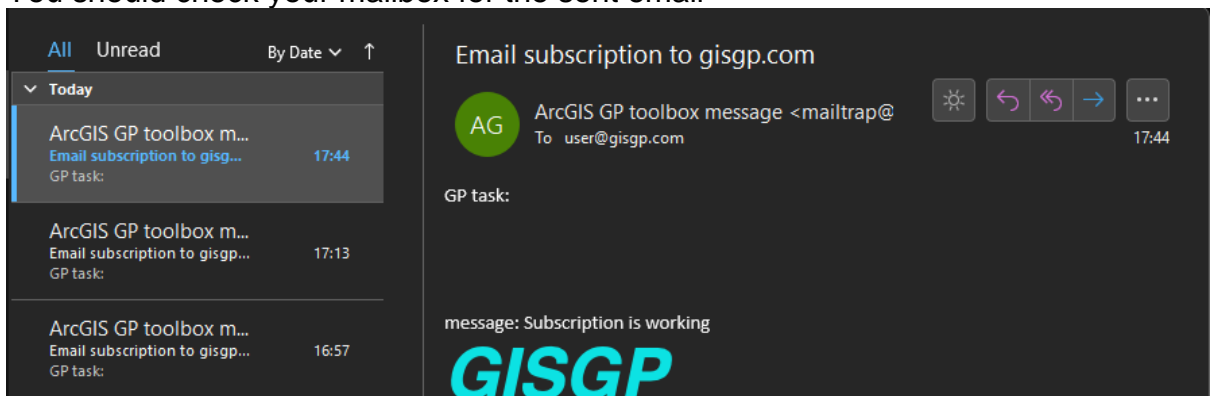
- You should check your mailbox for the sent email

4. How is it used in a model?

On the **ModelBuilder** tab, click **Insert > Tools** 🧰, and add geoprocessing tools and model-specific**By selecting the toolbox through the catalog in Pro:** Open ArcGIS Pro and navigate to the Catalog pane. Here, you can browse your file system or network for the toolbox and add it to your project. **Select the script:** From the toolbox in your project, locate the script or tool you want to use in your model.
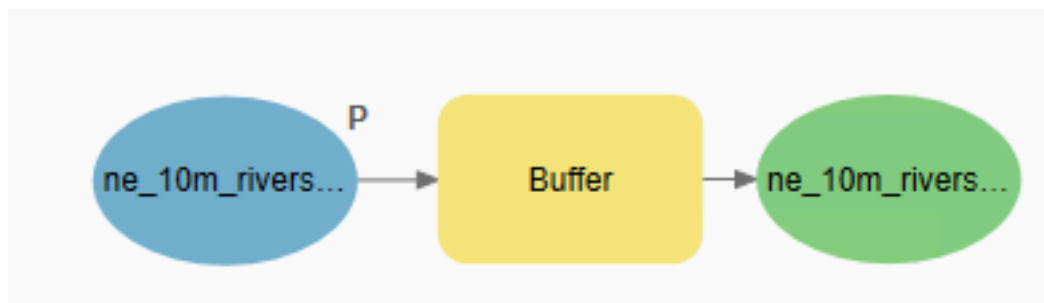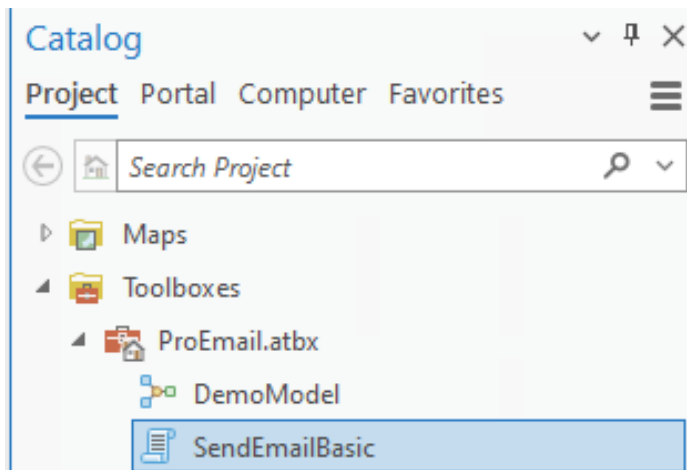
- **Copy it to the model you want to send emails to:** Drag and drop the script into your model workspace.
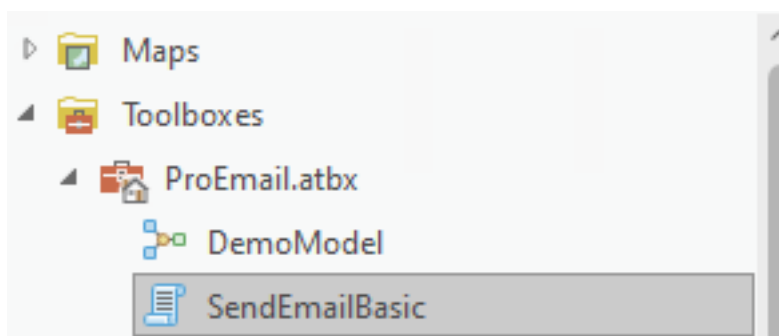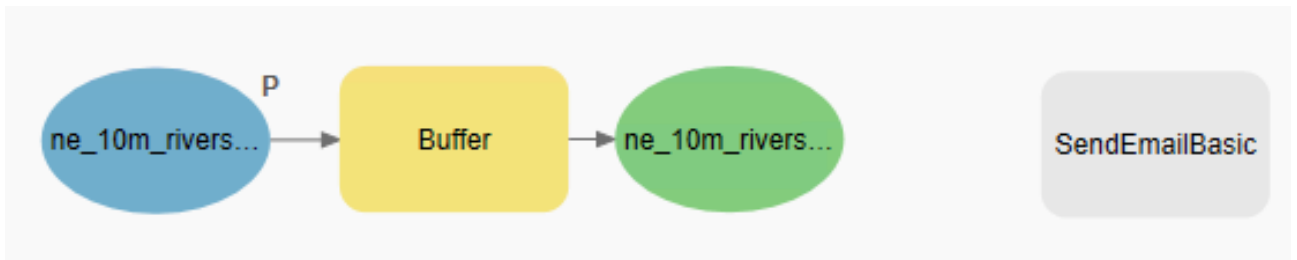
- **Connect it to the last operation in the model by dragging the arrow:** To define the sequence of operations in your model, connect the email script to the previous

  tools or processes in your model. You do this by connecting the arrows or lines between them.

- **Select gp_management**

- **Validate:** After creating your model, validate it to ensure there are no errors or issues.
- **Save:** Don't forget to save your model in your project.

4. How are parameters configured?

- **Check the parameters with the properties selection of the script:** To configure the script's parameters, access its properties. Here, you can specify things like input and output paths, email addresses, and other settings.
- **By default, the model is associated with the email address specified in its subscription:** The script may have default settings for certain parameters, including the email address. You can use these defaults or change them as needed.
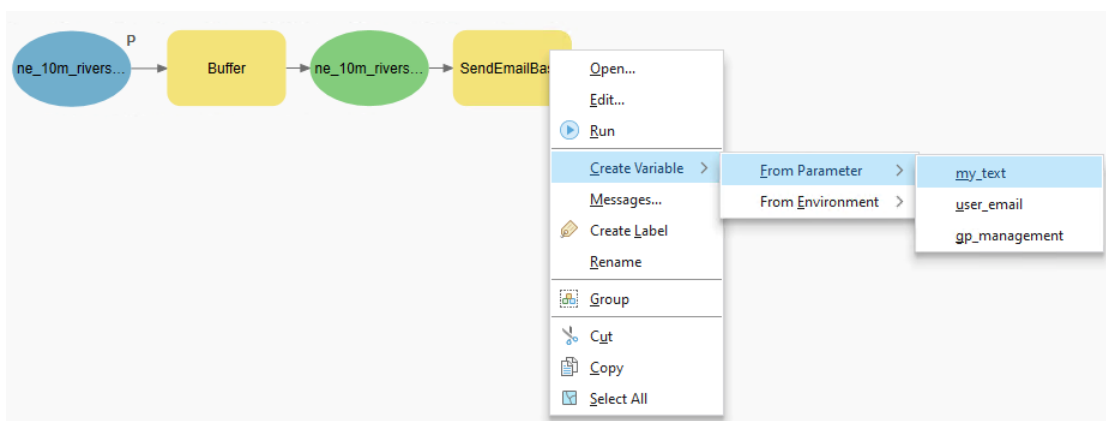
- **You can include additional parameters from model properties:** Depending on the script and your model's requirements, you may be able to add or modify parameters.

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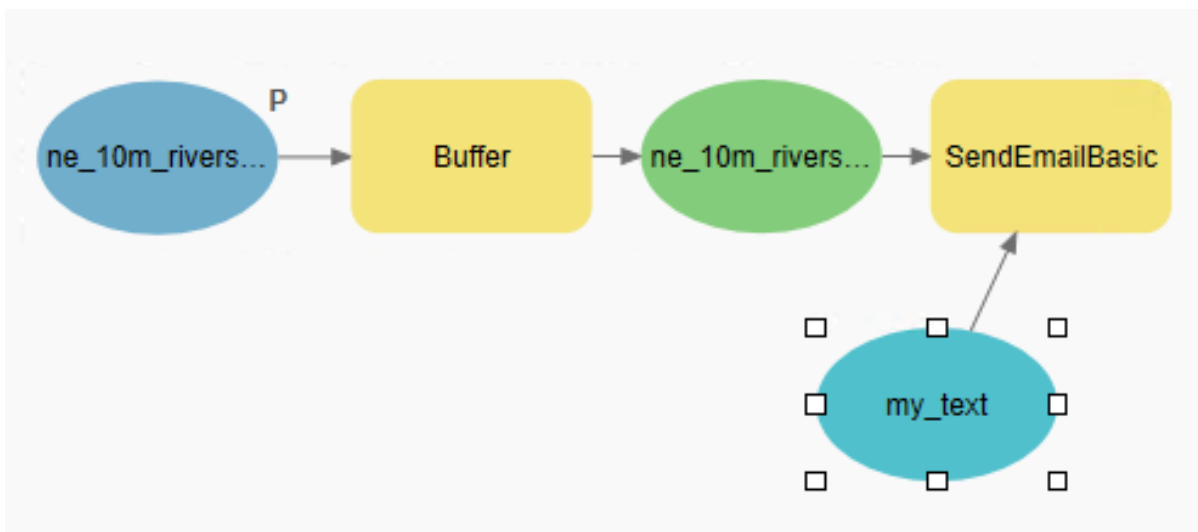
- **Select** Double click to add custom text messages
- **Write** text messages
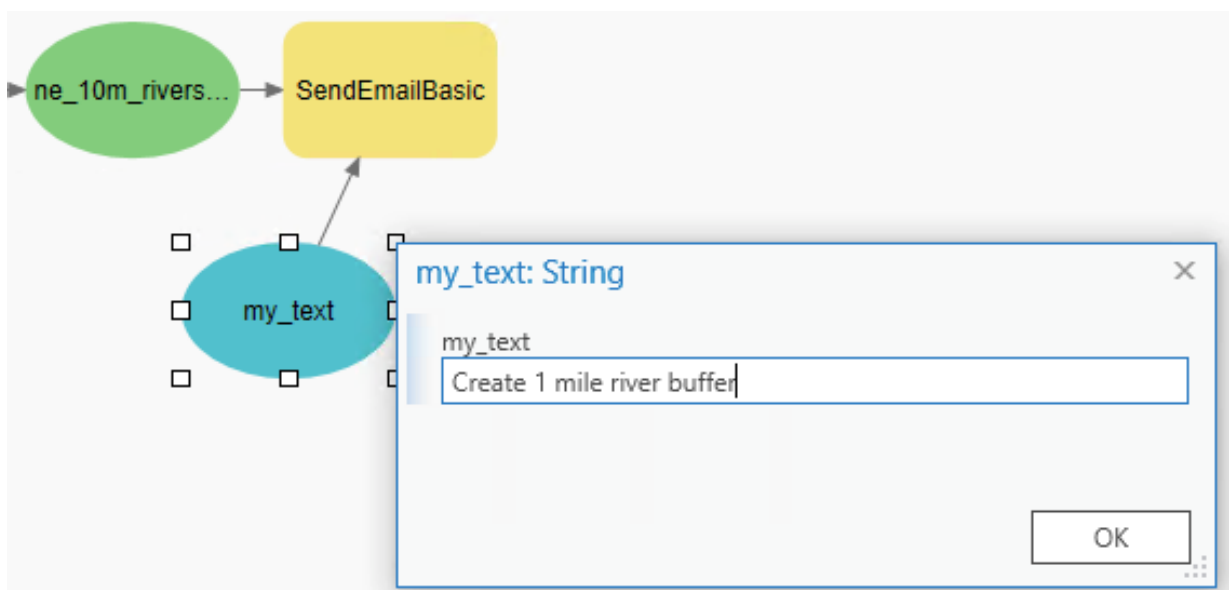
- **The email parameter is mandatory for the job:** If sending emails is a key function of the tool, the email parameter is crucial, and you must provide a valid email address.

5. How to test geoprocessing?

- **Complete the steps of "How to use in a model" and configure the**
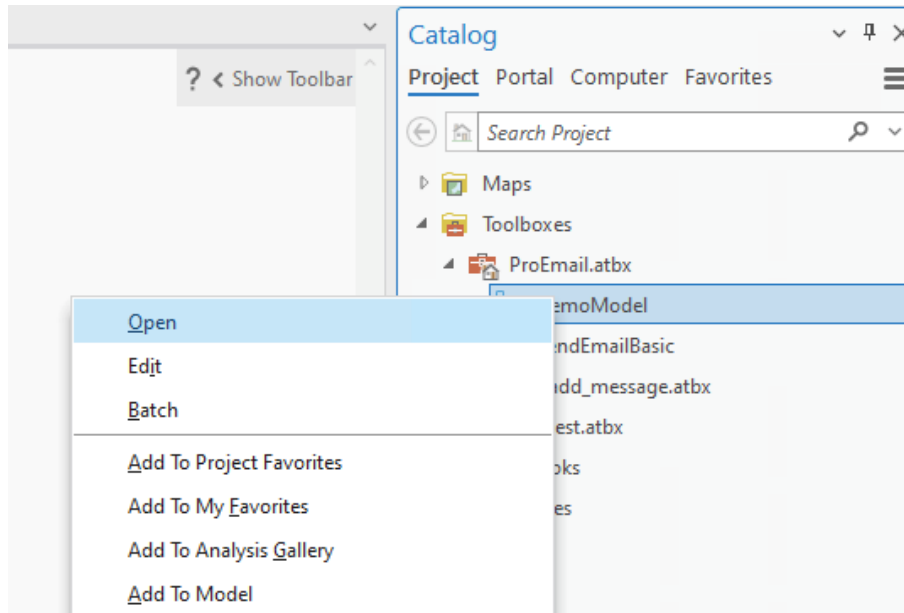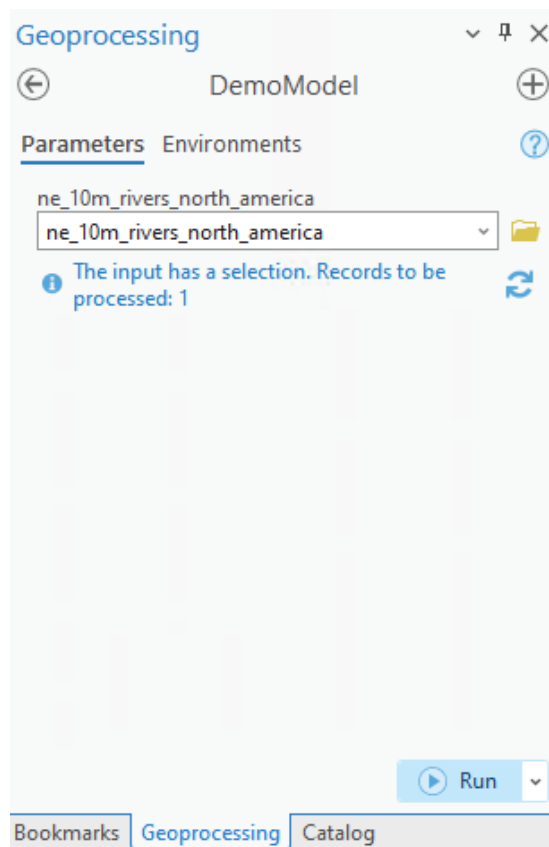
parameters: Set up your model following the steps mentioned earlier.

by

- **Save the pattern:** Save your model configuration so that you can easily
  reuse it.

- **Just run it:** Execute the model, and it will perform the geoprocessing tasks.
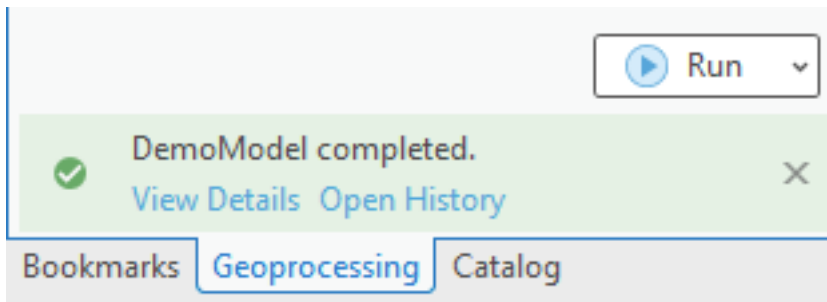
- **Geoprocessing is finish:**

- **You should receive a notification email:** If your geoprocessing model involves sending emails, you should receive a notification email as configured. This confirms that the tool executed successfully.

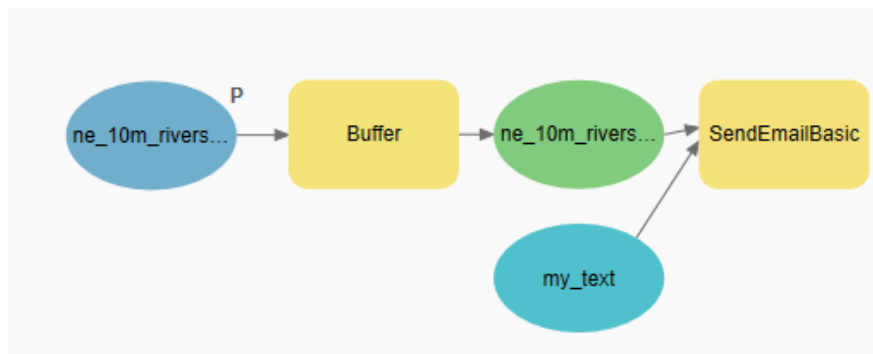Email subscription to gisgp.com
To: user@gisgps.com

Create 1 mile river buffer
Succeeded at 12 Oct 2023 17:24:50 (Elapsed Time: 0,14 seconds)
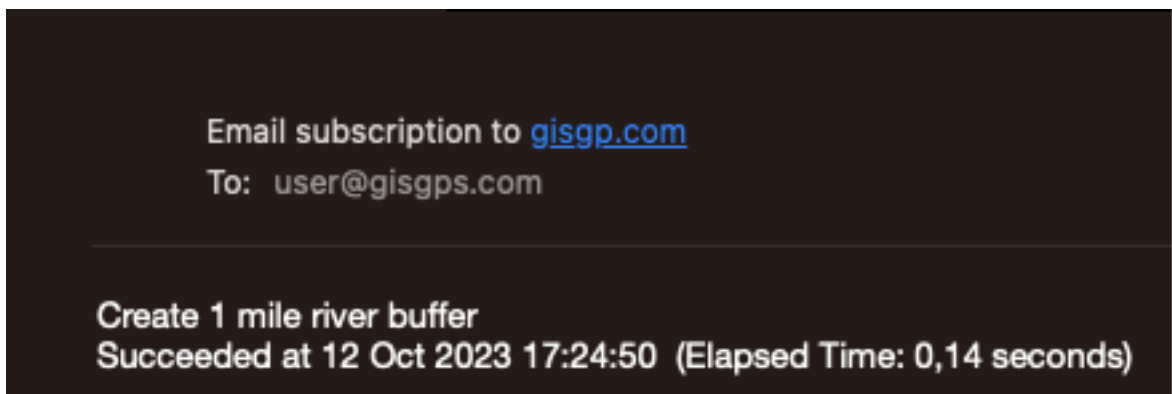
Configuration in a Workflow

- **Repeat email address settings for the other two geoprocessing steps.**
- **About SendEmailBasic:**
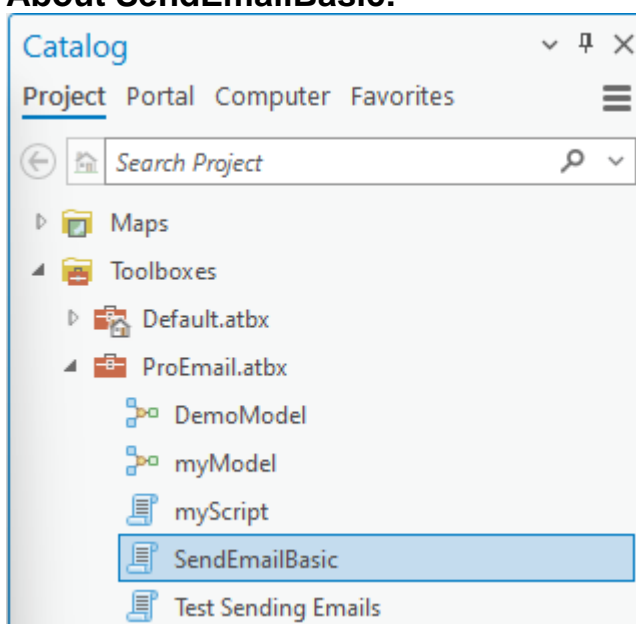
- **Select Properties and, in the Parameters section, change the email address to a valid one.**
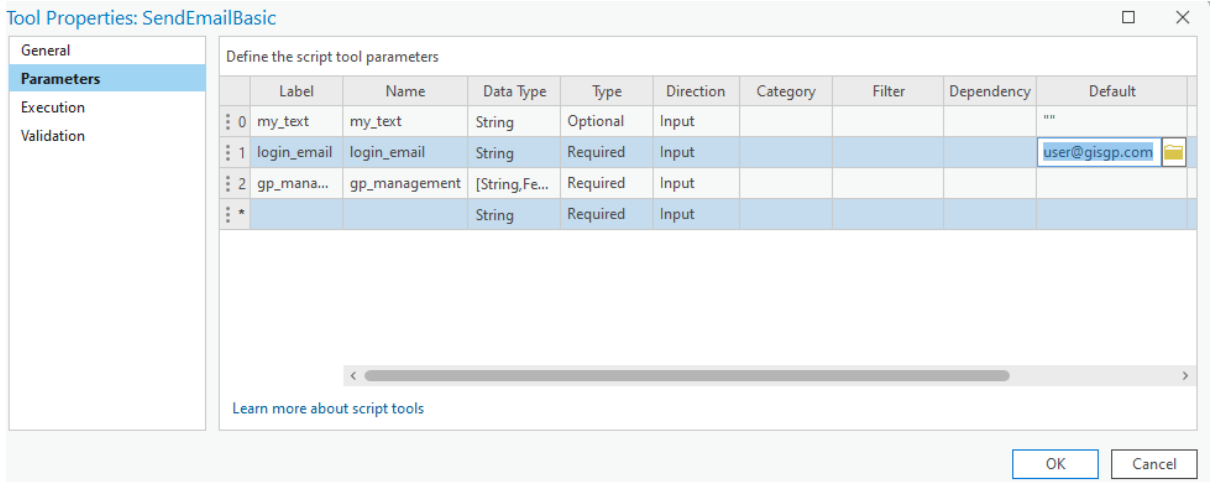
- **About myScript:**
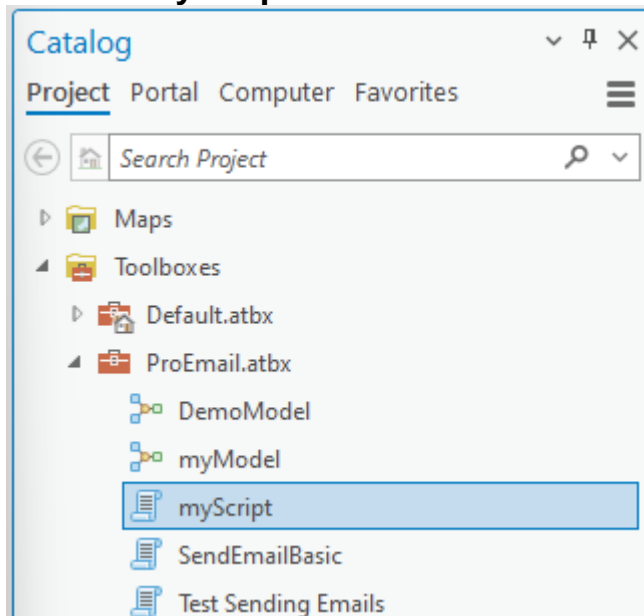
- **Select Properties, change the email address, and set the path to the active toolbox.**

- **You also need to make one additional setting to use the myScript tool: indicate the path to the active toolbox. This refers to the toolbox loaded into the project. This step is necessary to auto-populate the**

path in the future. Select the folder on the right and set the path to the toolbox.

Default
C:\GISProject\Request\ProEmail.atbx 📁
user@gisgp.com

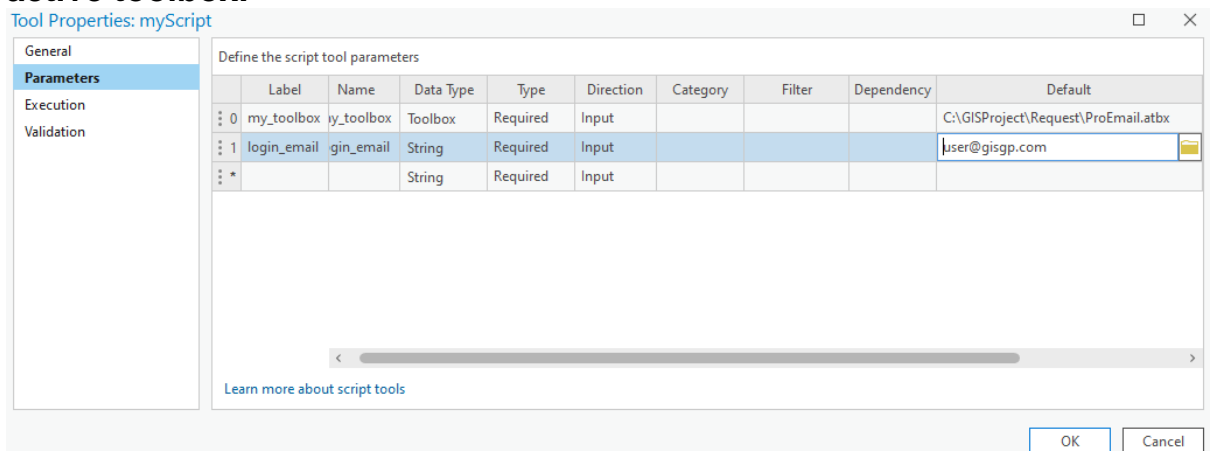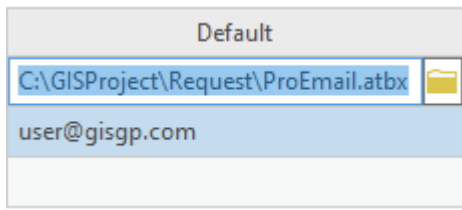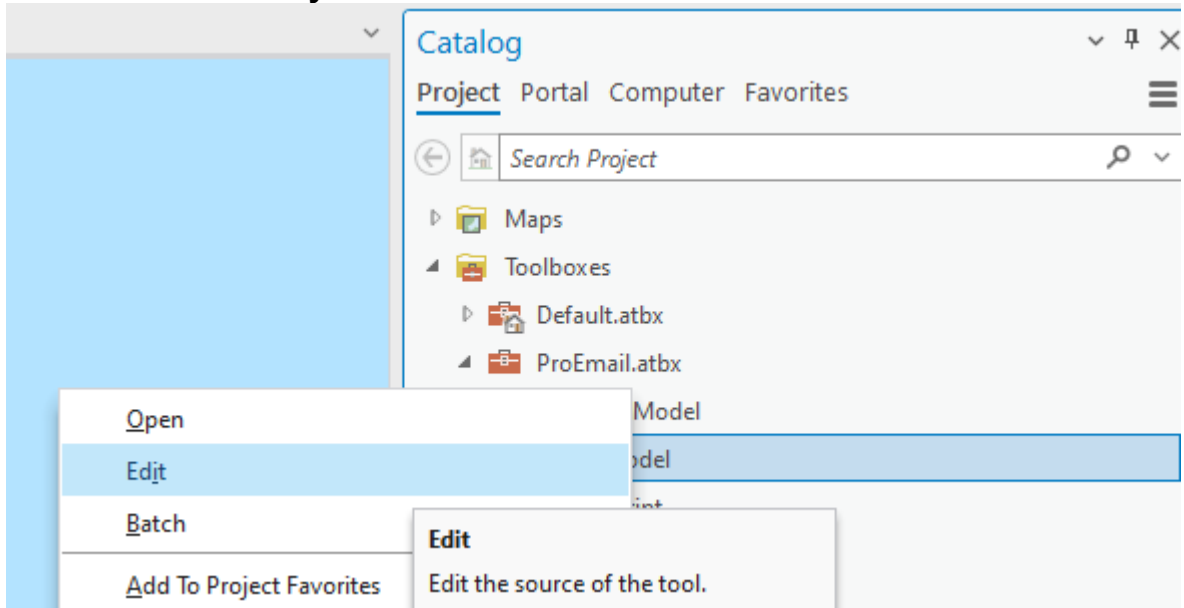- **You can use multiple toolbox copies, specifying the path for each Pro project.**

  Using the Email Notification Tool in Practice:
- **Embed your geoprocessing in "myModel" to get status notifications.**
- **Select "Edit" on myModel.**

Catalog ⌄ 📌 ✕

Project Portal Computer Favorites ≡

← 🏠 *Search Project* 🔍 ⌄

▷ 📁 Maps

▲ 📁 Toolboxes

▷ 📕 Default.atbx

▲ 📕 ProEmail.atbx

Open   Model

Edit   odel

Batch   int

    Edit

Add To Project Favorites   Edit the source of the tool.

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- **Now, build your new geoprocessing, or if you already have one built, copy it into ProEmail.atbx. Then, pass it inside myModel. For example, suppose you want to embed an already implemented model to track its execution and receive an email with the execution status. Please note that 'Upload files'—selected to illustrate the example—is not contained in this package**
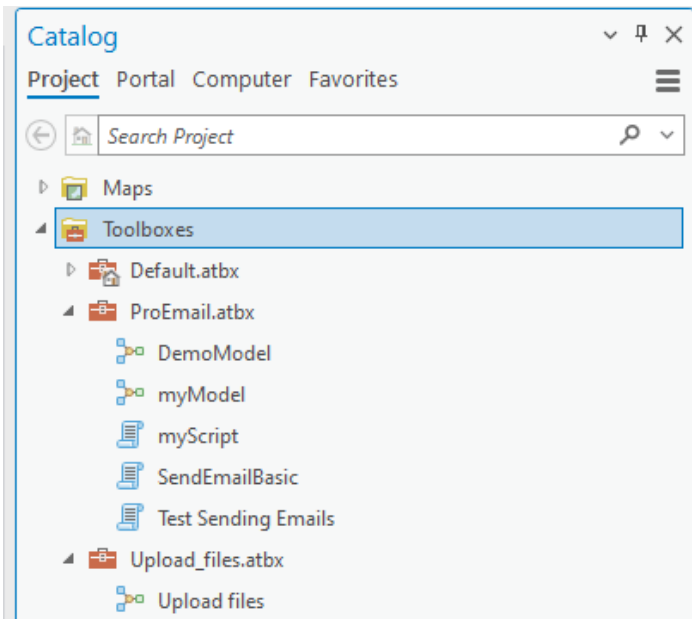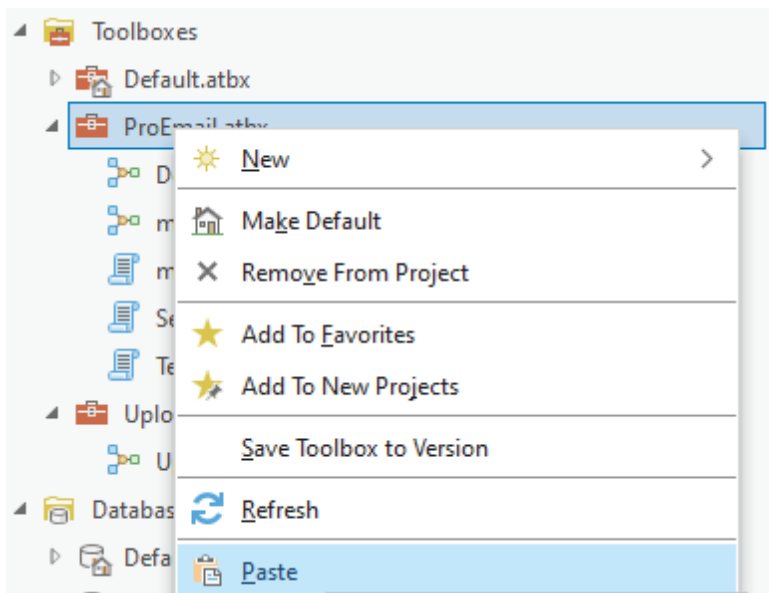
- **Build or copy your geoprocessing into ProEmail.atbx and pass it inside myModel.**
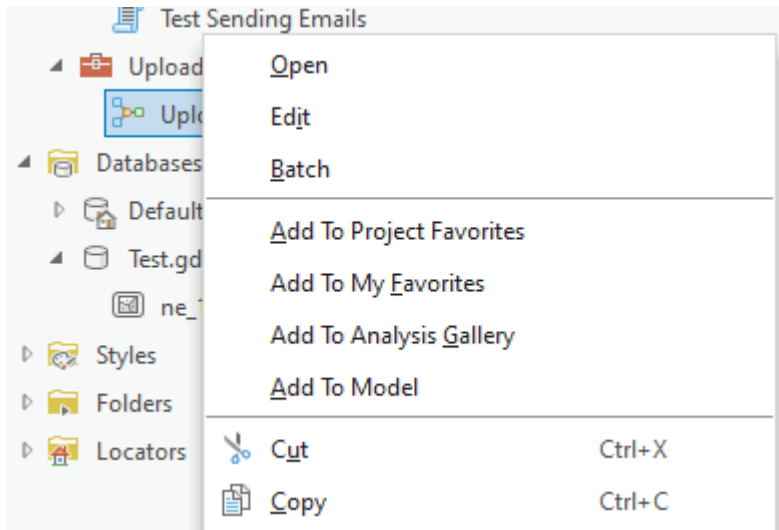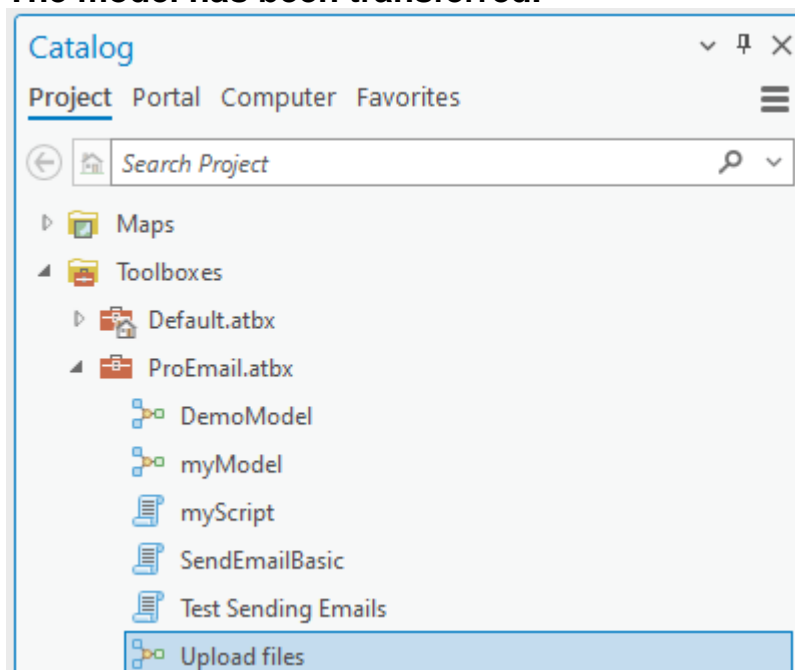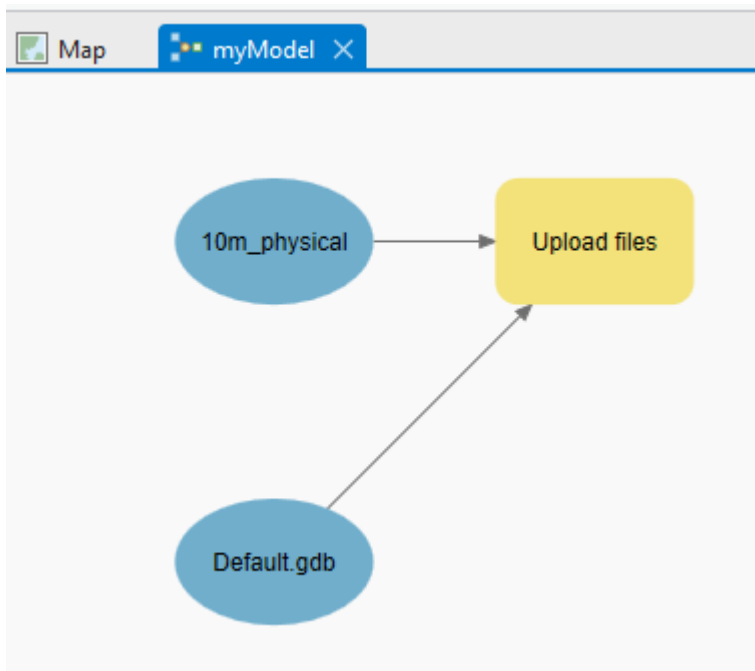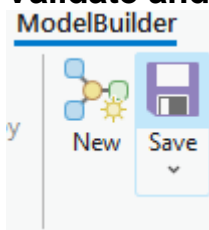

Paste the sample model

- **The model has been transferred.**

- **Now, we're going to embed it in myModel. If there is previous content in myModel, highlight it and select 'Cut.' Now, copy 'Upload files' or drag and drop it into the myModel window.**

- **If necessary, update the model parameters.**
- **Validate and save myModel (do not execute it).**

- Important do not execute **myModel** !!!

Running the model **myScript**
- **MyScript is always executed; this is because all the validation, message interception, and email notification logic are in myScript. Model myModel is a container in which your geoprocessing models or tools are embedded. Let's run myScript and review the output. With a double wedge, we open myScript; there is no need to change the parameters as we have already set them in the previous steps. If there is still a mismatch in the parameters, please check the previous steps.**
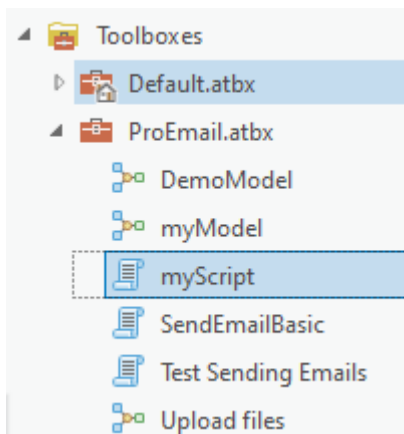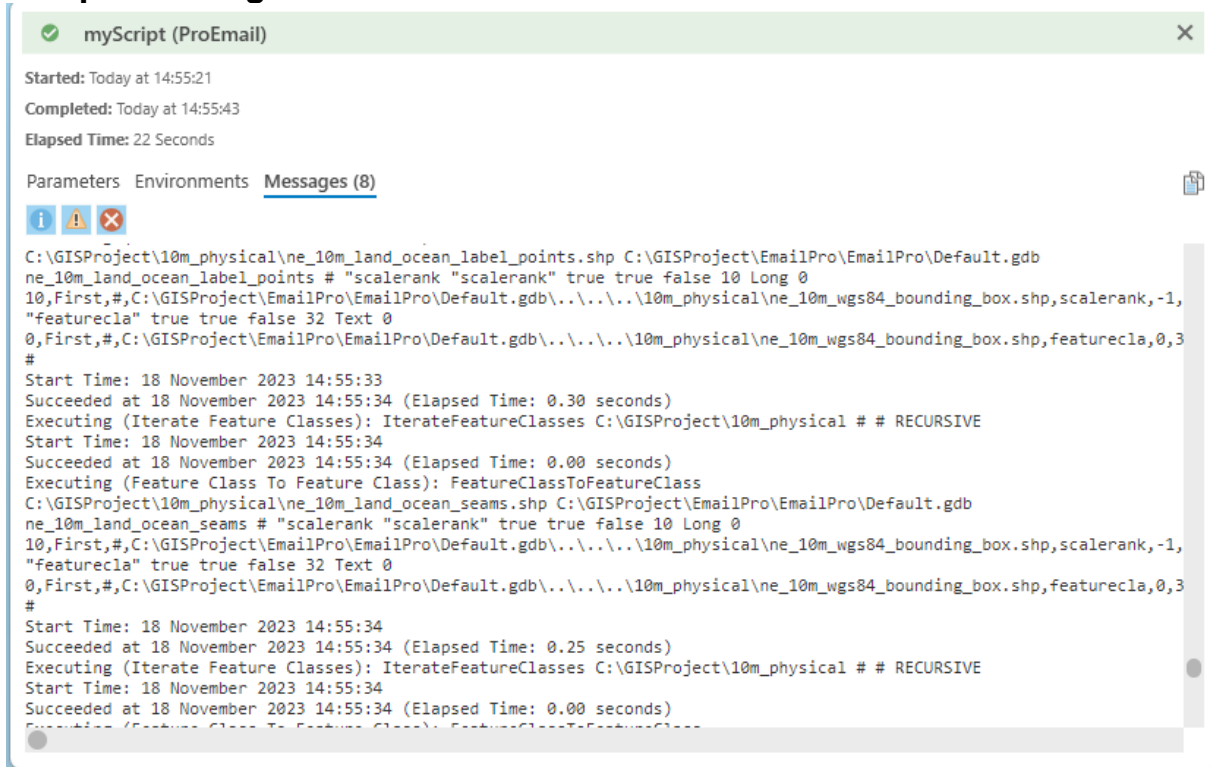
- **Verify the email address for comprehensive execution details.**

- **Important: The unusable emails from the image user@gisgp.com, it is for illustration only.**
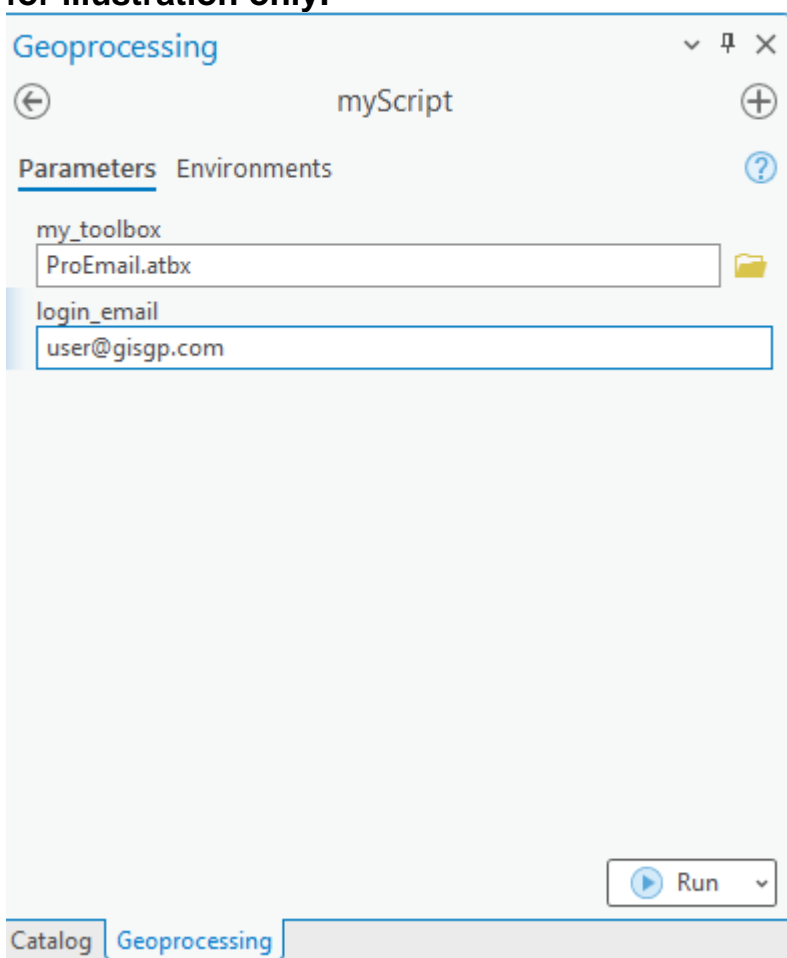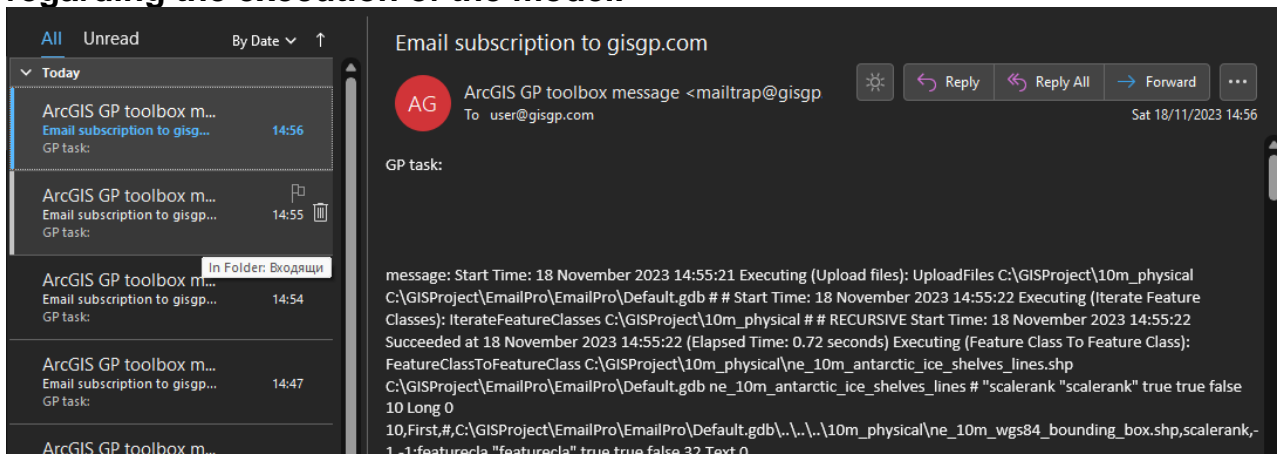

- **Open myScript and RUN it.**
- **Check View Details for geoprocessing details.**
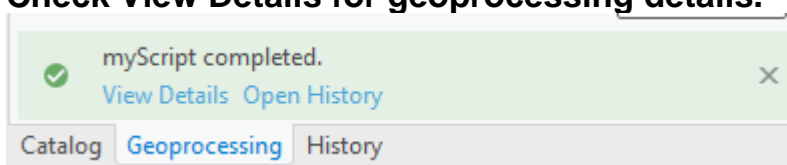
Sample Messages

- **Let's check the email address. The email contains all the details regarding the execution of the model.**

- **If you want to use new geoprocessing, you can create a new project with a copy of the toolbox. Be sure to redirect the path in the tools to the new location of ProEmail.atbx.**

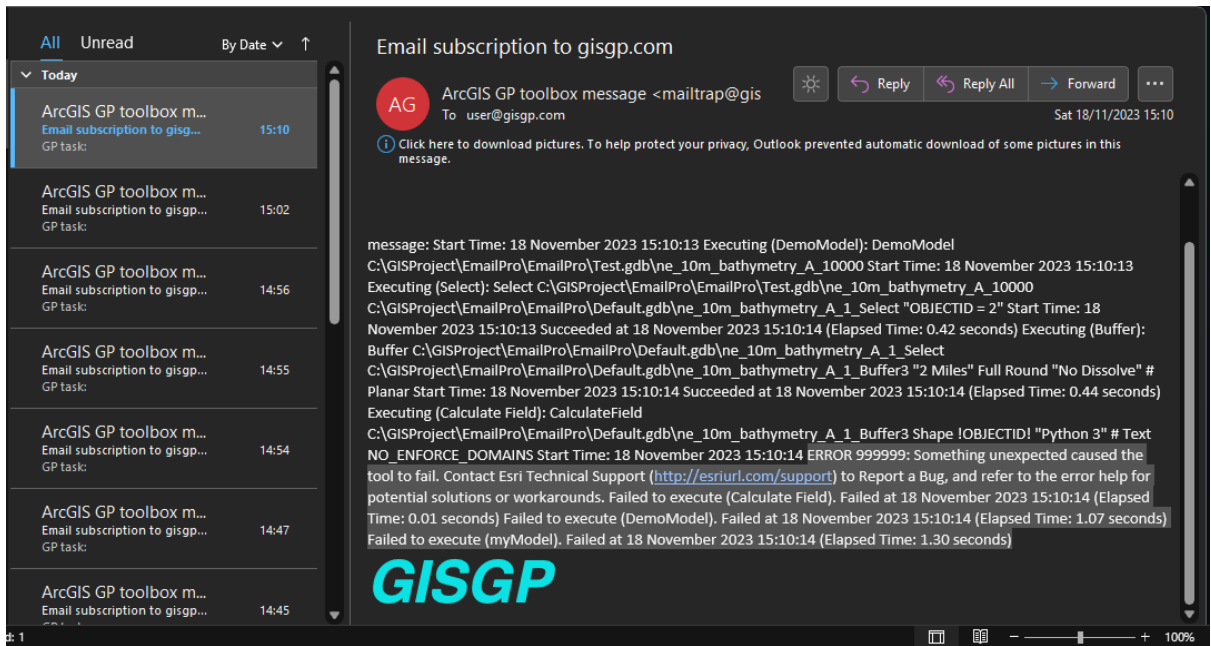# How to handling Errors in geoprocessing

- **Receive notifications for geoprocessing errors.**
- **Run myScript with a model containing an error.**
- **Check the email for error details.**
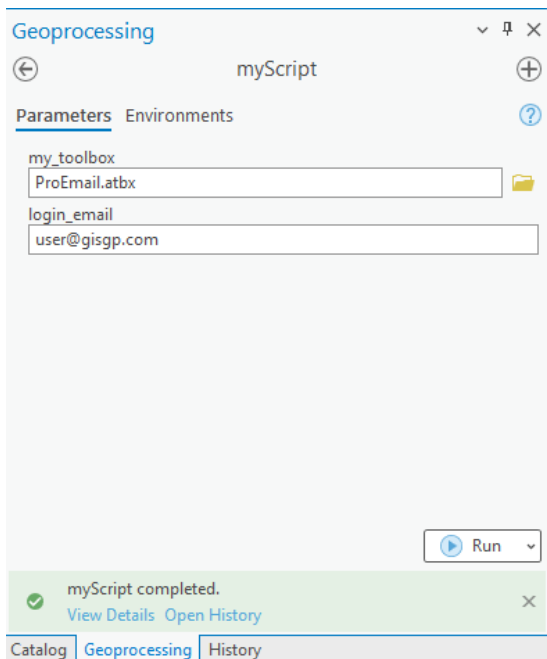
- **The bug is contained in the built-in geoprocessing; let's take a look.**
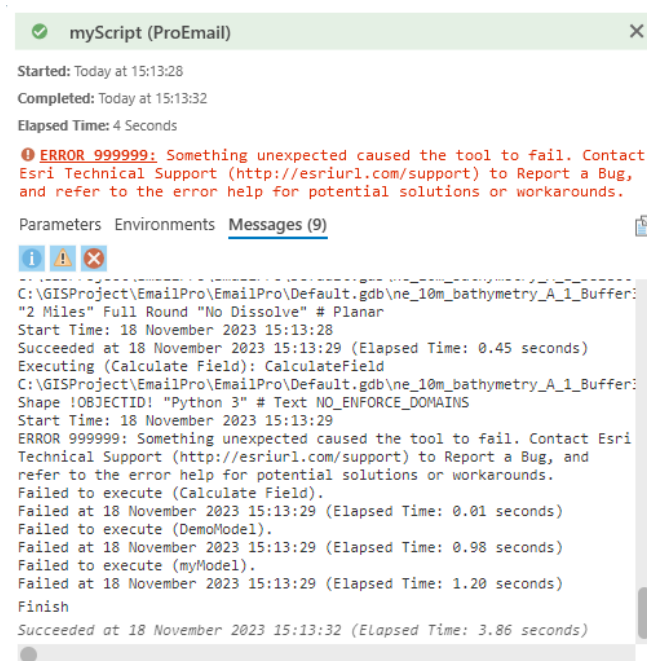
- **We also observe the described parameters, start time and date, and the error that occurred in the email.**

- **This way, you can be notified promptly in case of non-working geoprocessing and make the necessary corrections immediately.**

   Successful Geoprocessing:
- **Create a new project with a copy of the toolbox for new geoprocessing.**

For Questions
- **Visit the website, see the FAQ section www.gisgp.com**
- **Fill out the form on the site or use support@gisgp.com**