

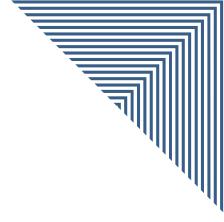
Using Power Automate and process mining to analyze business processes

Stefano Demiliani





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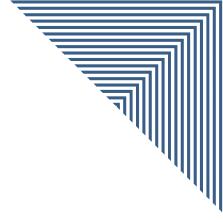
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#### Stefano Demiliani

- Microsoft MVP Business Applications & Azure
- **Speaker Bio:** Stefano Demiliani is a Microsoft MVP on Azure and Business Applications, MCT, and a long-time expert on different Microsoft technologies. He's a trainer for Microsoft Italy and Western Europe and a speaker on many international conferences, mainly talking about Azure, serverless architectures and Dynamics 365/Power Platform. He is the author on many top selling IT books on Azure and Microsoft Dynamics.



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### **Process Mining: what is it for?**



Every organization has a set of processes they work by.



KPIs need to be defined to create reporting to understand how these processes work.



Process Mining is the convergence of Al-driven intelligence, business data and modern analytics



### The players...













### What is a process advisor?

**Process Advisor** is a process mining tool in Power Automate that provides you a deep understanding of which processes are best suitable for automation.

Process advisor offers process mining and task mining capabilities to do this.



Things you'll see here are currently in PREVIEW and something could change in the future.



### **Process Mining vs Task Mining**

Same goal: improve efficiency!

| Process Mining  | Task Mining  |
|---|--|
| Process mining is better suited for identifying inefficiencies in organization-wide processes | Task mining is better suited to analyze tasks that are running on the desktop      |
| End-to-end process and sub-process. Works with event log files from your business apps.       | Task mining work with user interface logs  |
| Process-oriented  | User-oriented  |
|   | In this, we can use techniques like data mining algorithms, process modeling, etc. |



- Analyze steps to complete business processes and optimize them
- Detect non-compliant processes and/or tasks.
- Discover automation opportunities.
- Compare processes.
- Understand where and why problems occur.



- Understand what employees actually do while performing each task on their desktops.
- Identify the most common actions through user interactions.
- Identify and eliminate unnecessary actions in process tasks.
- Automate tasks that would accelerate processes and reduce human errors.
- Ensure compliance and perform audit.



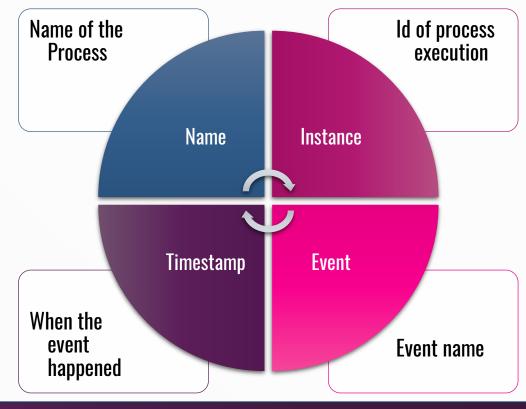
### **Process Mining**

**Process mining** in process advisor allows you to take the event data from your system of records (ERP, CRM etc) and visualize the processes happening in your organization.

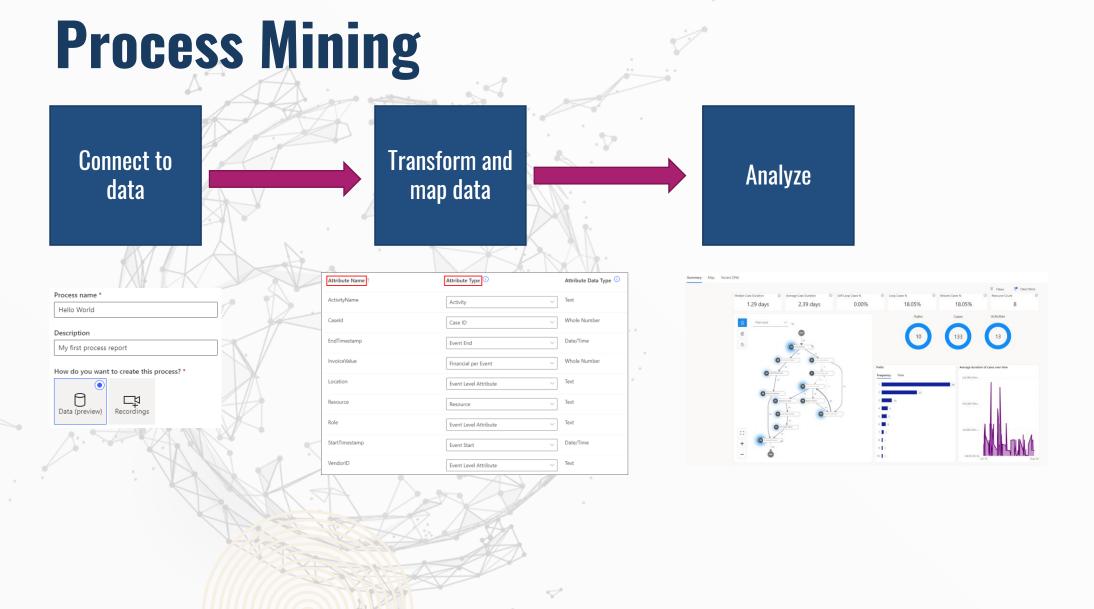
For process mining to analyze the event log, the following fields are necessary:

- Case ID (caseId when mapping): Case ID should represent an instance of your process and is often the object that the process acts on (ex. an "order ID" for an order submission process, a "request ID" for an approval process). This ID must be present for all activities in the log.
- Activity Name (activityName when mapping): Activities are the steps of your process, and activity names describe each step.
- Start Timestamp (startTimestamp) and End Timestamp (endTimestamp): Timestamps indicate the exact time that an event or activity took place. Event logs have only one timestamp. This indicates the time that an event or activity occurred in the system. Activity logs have two timestamps: a start timestamp and an end timestamp. These indicate the start and end of each event or activity.

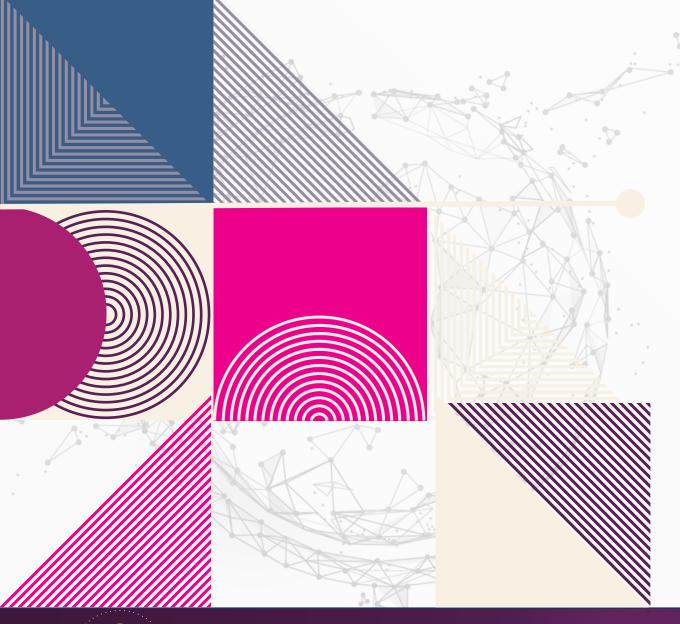
**Stored in Dataverse** 









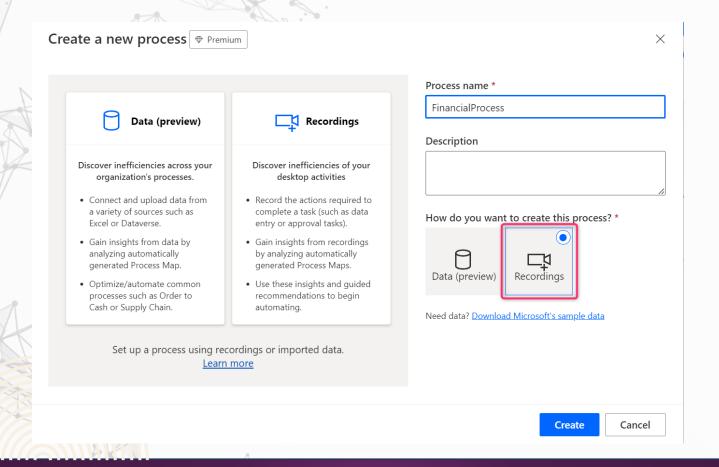


### DEMO: PROCESS MINING



### **Task Mining**

Task Mining is the technology that allows businesses to capture user data and use that data to analyze how employees are getting their work done, and how their performance can be improved.

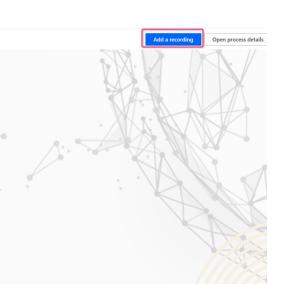


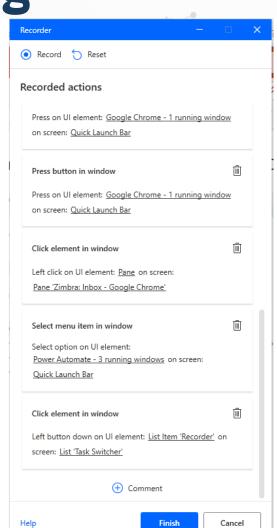


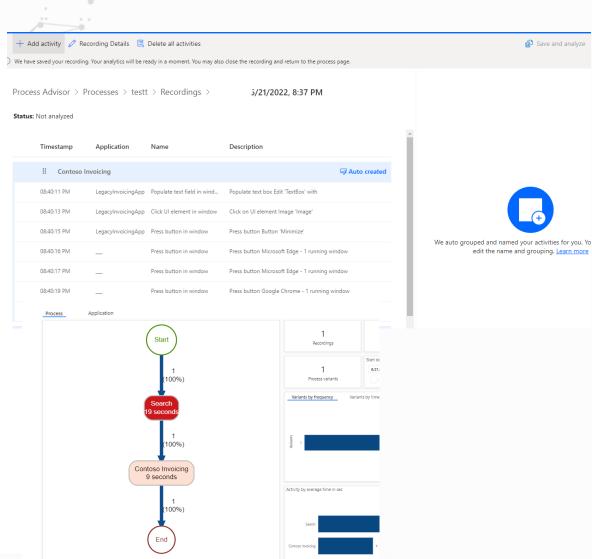
### **Task Mining**



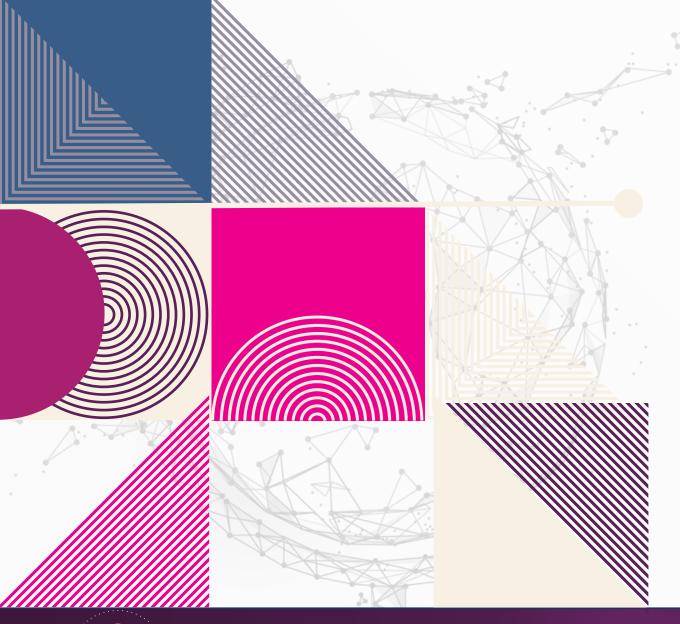
Next, add your recording or share it so others can add their own.











### DEMO: TASK MINING



Set of templates for analyzing your cloud tasks and processes.

**Azure DevOps (work tracking) template** analyzes the execution and handling of tracked Azure DevOps (ADO) work items to help you maximize your development processes and manage dependencies.

**Azure DevOps (pipelines) template** analyzes the execution and handling of tracked pipelines and boards to help you maximize your development processes and manage dependencies.

**Logic Apps (standard plan) template** analyzes the execution of your Logic Apps to help you maximize your automated processes and manage dependencies.

**Logic Apps (consumption plan) template** analyzes the execution of your Logic Apps to help you identify opportunities and optimize your Logic Apps (consumption plan) usage.

**Durable Functions template** analyzes the execution of your Durable Functions to help you identify opportunities and optimize states, checkpoints, and restarts.



#### Start with a popular template

Top picks

Azure

Finance & Operations

Supply Chain

Power Platform



#### Azure DevOps (work tracking)

Track your work item processes within Azure DevOps.



#### Azure DevOps (pipelines)

Quickly gain insights on your CI/CD processes.



#### Logic Apps (standard plan)

Understand success rate and processes executed through Logic Apps.



#### **Durable Functions**

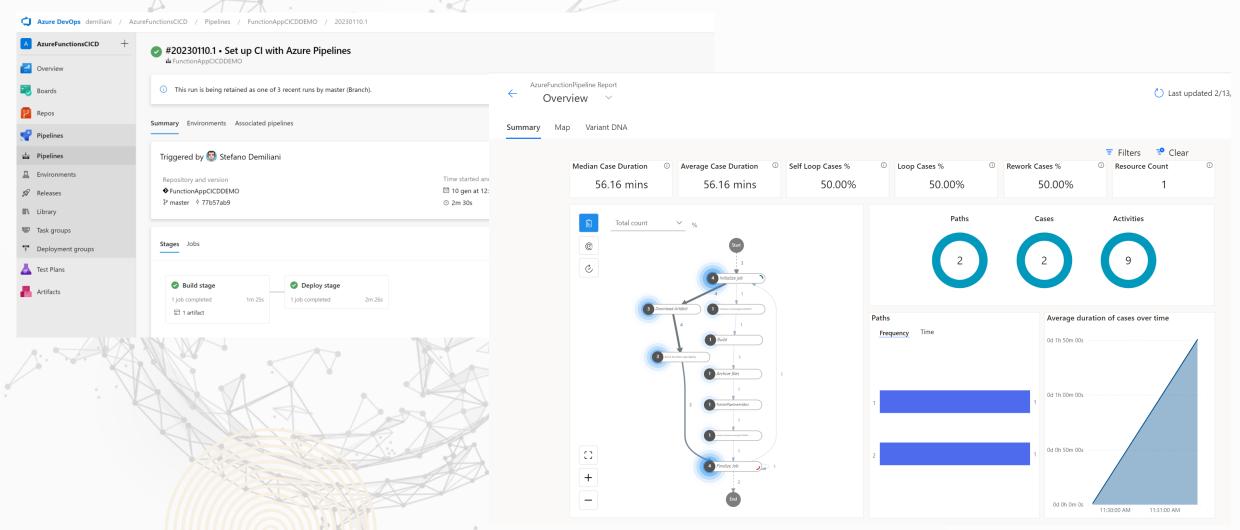
Find out what is running behind the scenes of your stateful serverless compute environment.



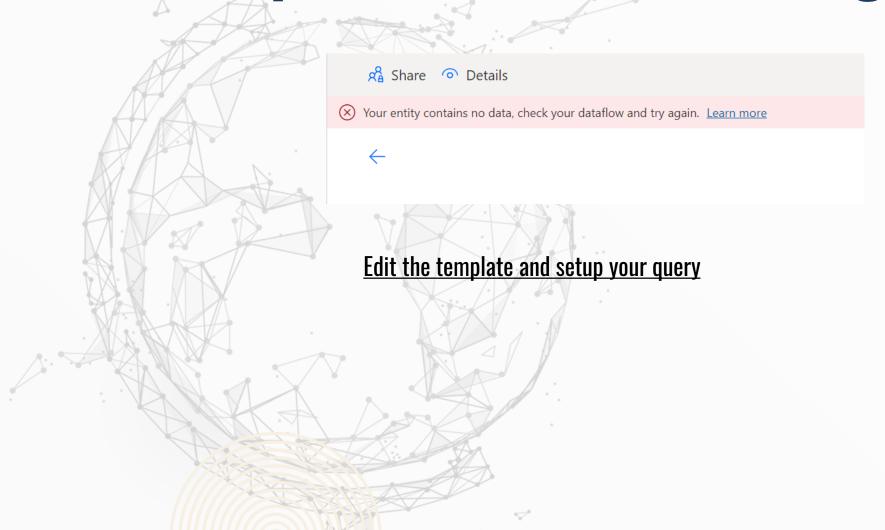
#### Logic Apps (consumption plan)

Understand what is happening with your logic app consumption.











### **Power Platform Templates for Process Mining**

Set of templates to identify automation opportunities and address performance and compliance opportunities in your flows.

- **Desktop flows template** analyzes the run history of flows that you create with RPA in Power Automate
- **Power Virtual Agents template** analyzes your bots to help you better understand your users' journey and maximize the bots' effectiveness.
- Power Apps insights template enables you to visualize the actions and success of your Power Apps.

https://learn.microsoft.com/en-us/power-automate/process-mining-templates





### **RECAP**

#### **PROCESS MINING**

Useful to analyze organization-wide business processes

#### **TEMPLATES**

You can analyze development processes, cloud workflows, Power Platform usage

#### **TASK MINING**

Useful to analyze user-centric processes

#### **ADD YOUR OWN DATA**

You can create your own set of data to analyze for your custom processes



## Any Questions?



# Please fill out the survey!



https://aka.ms/gppb23mifeedback





### THANK YOU



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