

Introduction to Dataverse Business Events

Dynamics 365 FastTrack Architecture Insights

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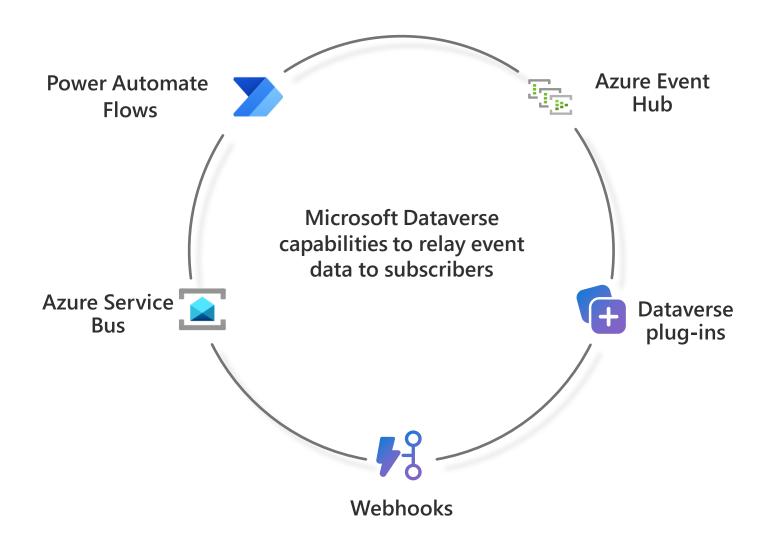


Agenda

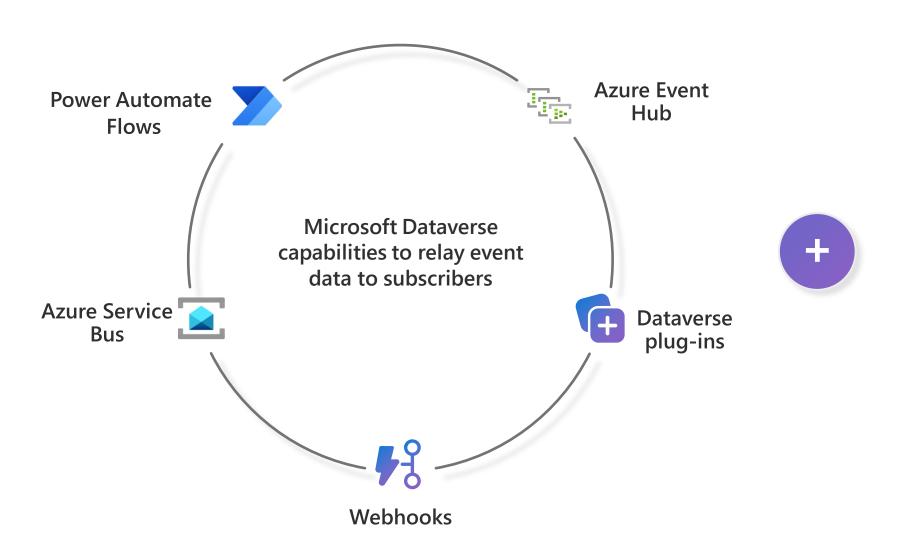
- · What are Dataverse Business Events?
- Design principles
- · How does it work?
- · Demo

What are Dataverse Business Events?

Overview



Overview





Example

Let's assume you want to apply a logic when a sharing operation is performed on a user-owned record.



Without Business Events, the only way to initiate logic on this **GrantAccess** message that occurs when a record is shared is via the Dataverse Event framework, typically through a plug-in.

With Business Events, you can catalog the table which will expose the GrantAccess message.

Design principles

Design Principles



Clear Intent

- Why is this business event created ?
- How will it be used by the subscriber?



Specific

- The subscriber shouldn't filter whether they should respond to it.
- Don't create generic Dataverse Business Events.





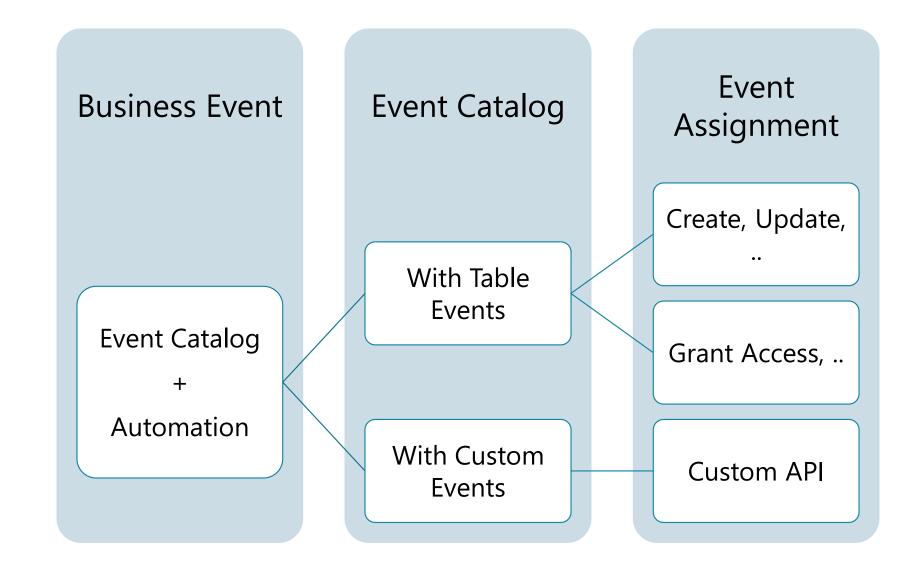
- Only necessary data should be in the event.
- Subscriber to retrieve additional data if needed based on the context.



Not for transferring data

 The use of business events for data transfer scenarios is a misuse of the business events. How does it work?

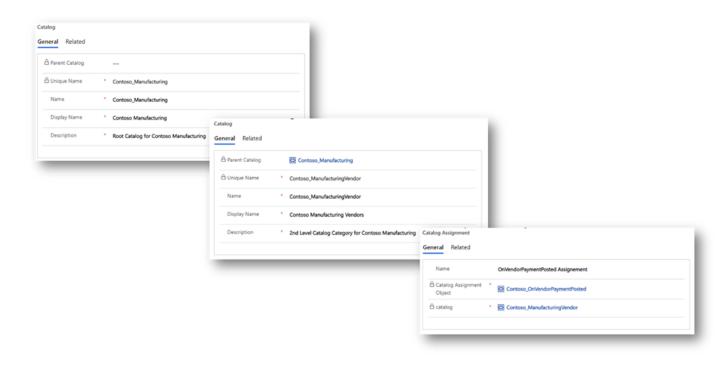
More Details



Event Catalog

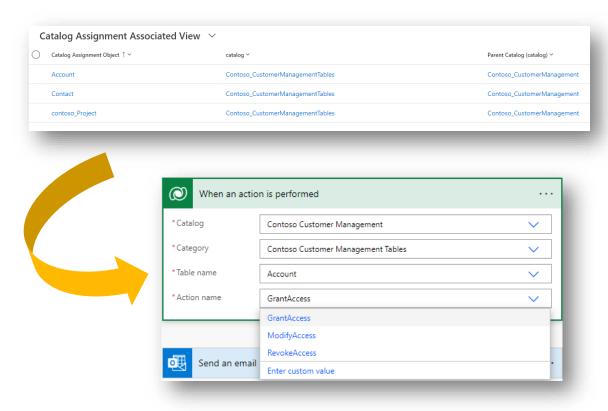
- A hierarchical structure where the top level represents a **solution**
- The second level is a **Category**
- Relevant **tables** and **events** are then assigned to a Category

Catalog	Description
Contoso Manufacturing	Root Catalog
Contoso Manufacturing Vendors Catalog	2 nd Level Catalog Category
OnVendorPaymentPoste d Assignment	Catalog Assignment: Custom API



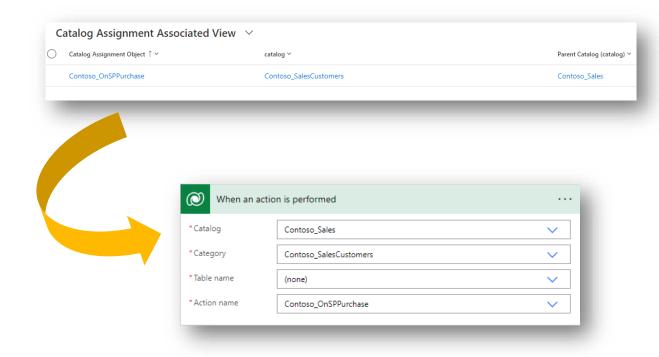
With Table Events

- The use of operations CREATE, Update & Delete when supported by the table
- Operations are available when the table is assigned to a Category
- The use of additional events is also possible:
 GrantAccess, ModifyAccess, RevokeAccess
- For Virtual Tables, the events OnExternalCreated,
 OnExternalUpdated, OnExternalDeleted are included
 <u>Enable Virtual Tables to support Dataverse events</u>
 (Microsoft Dataverse) Power Apps | Microsoft Learn



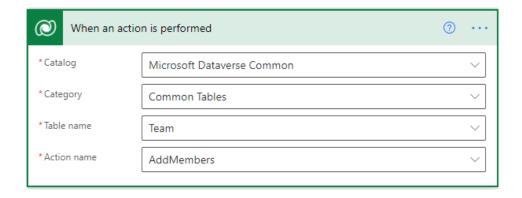
With Custom Events

- The use of Dataverse Custom API to create custom events
- Each custom API will create a new Dataverse message and provide the web service endpoint to call the custom API
- This scenario is detailed in the next slides.



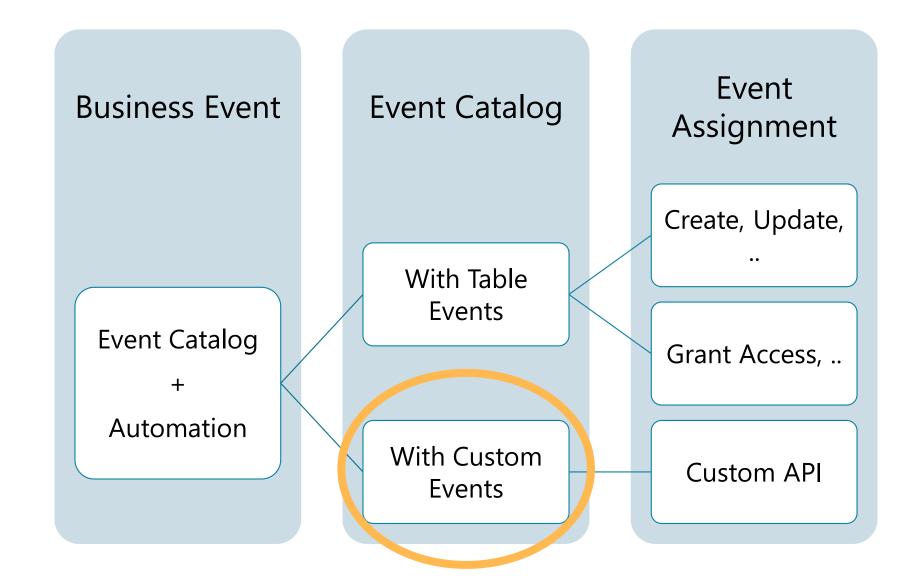
How to enable automation

The first experience where business events are exposed is in Power Automate Dataverse connector using the When an action is performed trigger.

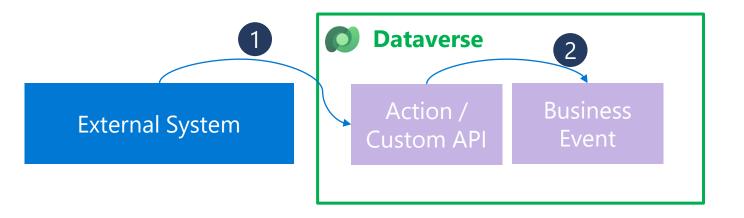


Within this experience Create, Update, and Delete events are not shown for table events. These events are already available using the When a row is added, modified or deleted trigger.

More Details

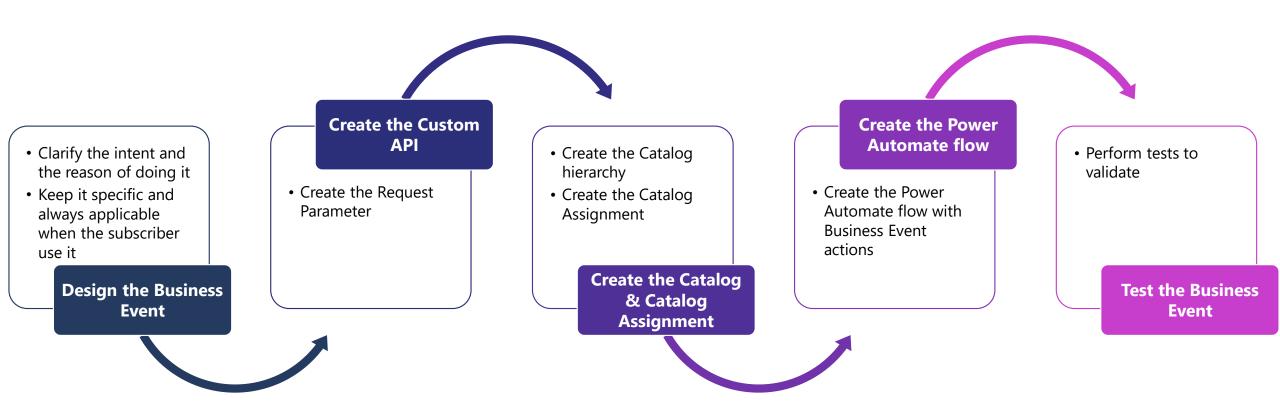


Used Components



- An external system calls an Action or Custom API that has been provided to trigger the Business Event.
 - ✓ The Action or Custom API is triggered with the Request Parameters, which contain information about the external event that occurred.
- The action triggers the Business Event that performs some business logic asynchronously.

Creation Steps



Design the Dataverse Business Events



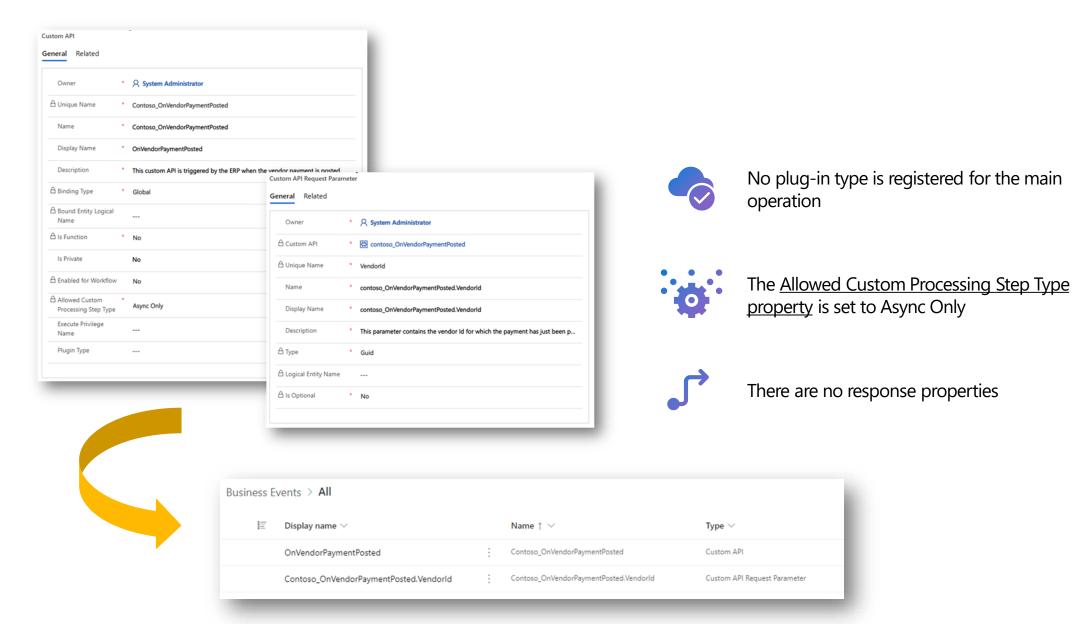


Follow the design principles

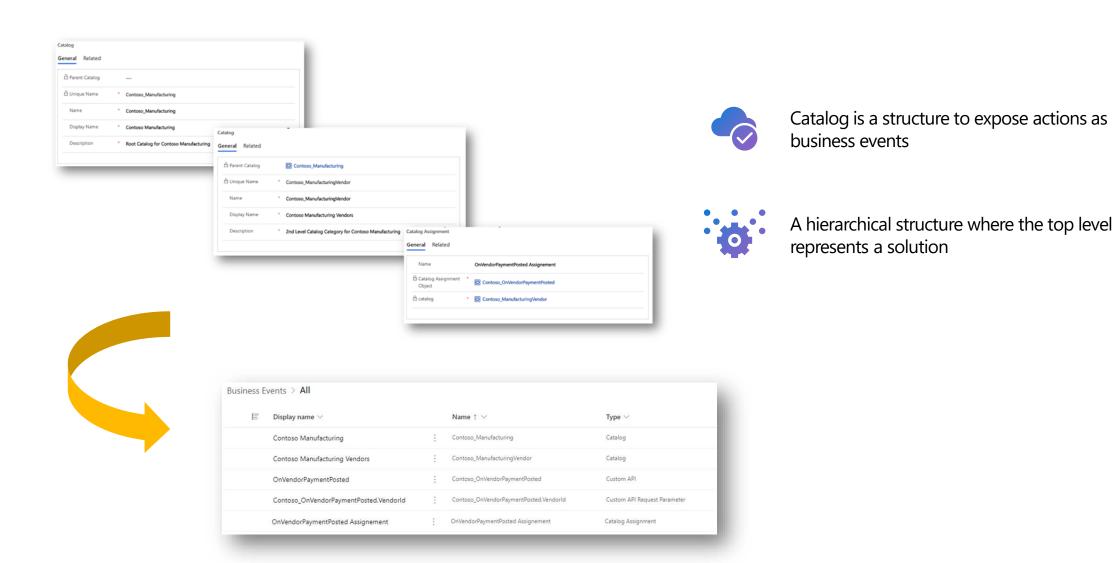


Clarify the intent and the reason of doing it & Keep it specific and always applicable when the subscriber use it

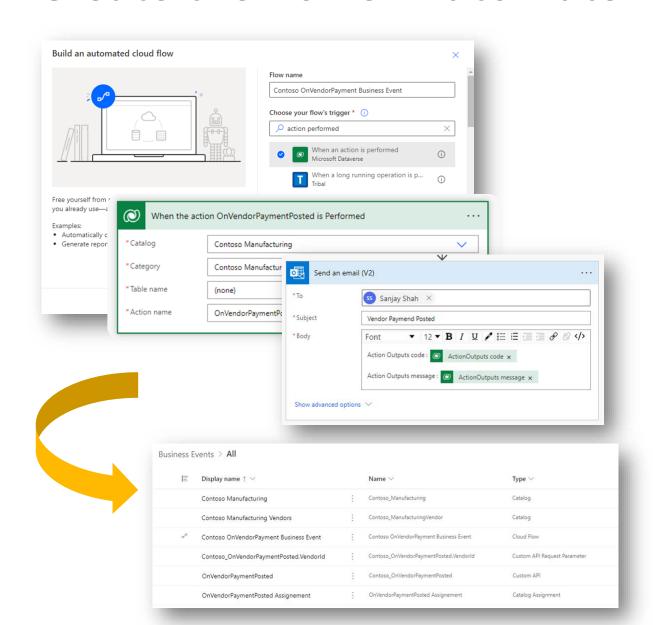
Create the Custom API



Create the Catalog & the Catalog assignment



Create the Power Automate flow





Create the cloud flow from the solution you're working on.

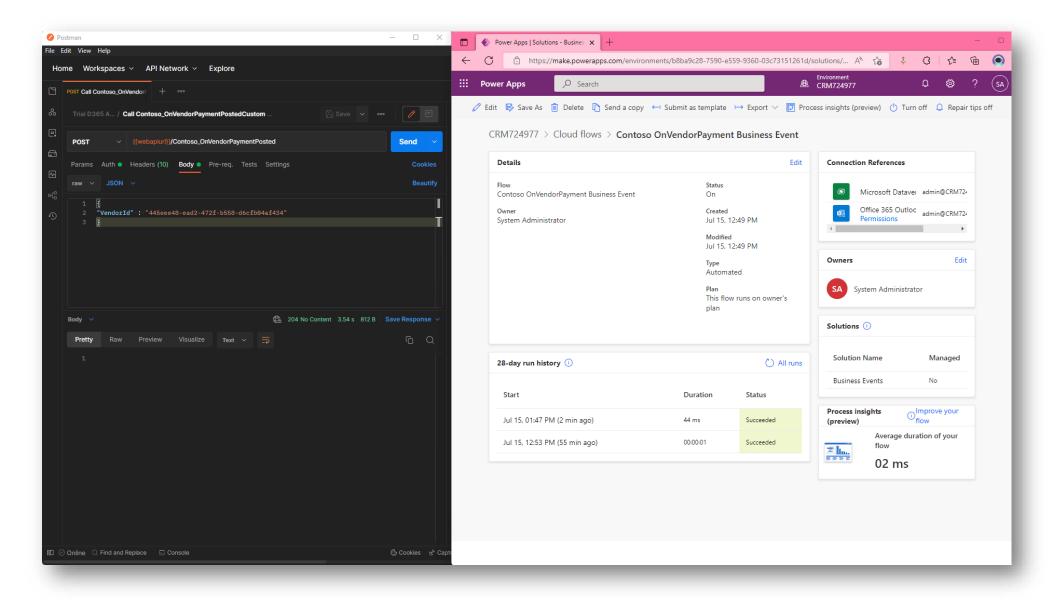


Configure the trigger by setting the Catalog, the Category, and the Action created in the previous steps.



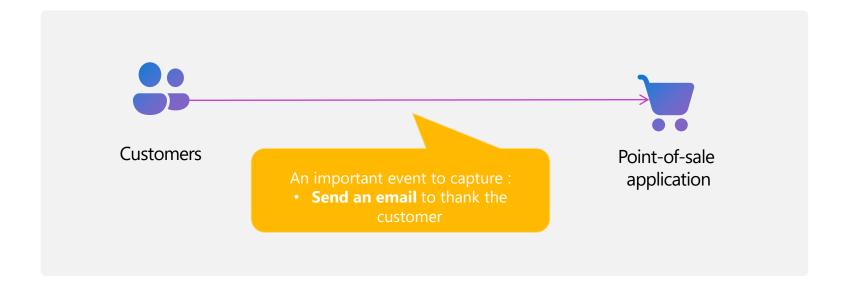
Configure the action, for example, by sending an email to an admin.

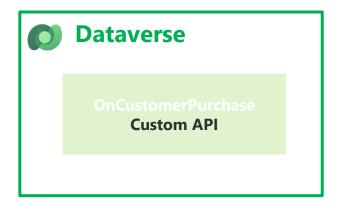
Test the Dataverse Business Event

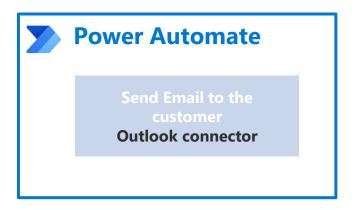


Demo

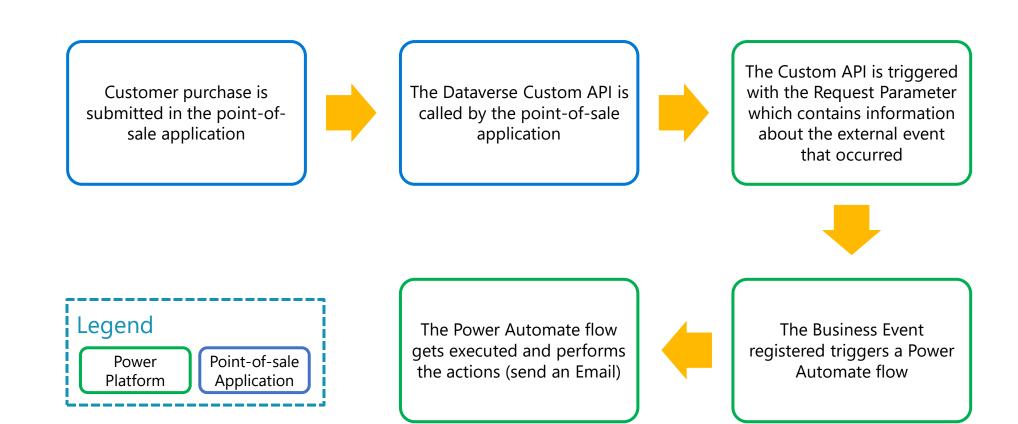
Scenario







Creation Steps



Thank you & Don't hesitate to ask your questions