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BUSINESS CENTRAL
connect

No Time to Test but scared of failures?
How to repeat tests in seconds.

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Page Scripting!

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Hi!

Phil Nash

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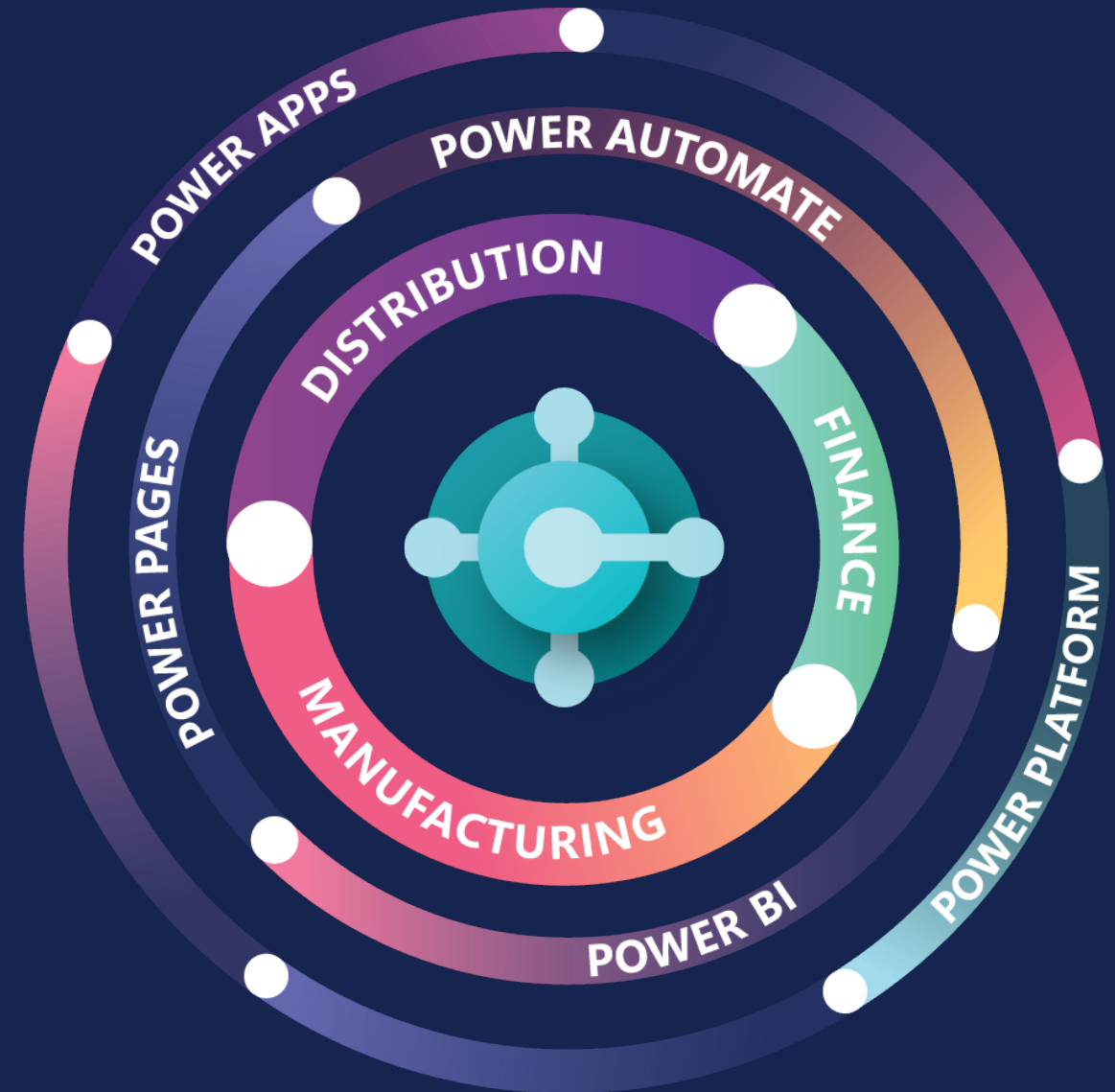
What we'll cover

Page Scripting

1. **What is Page Scripting**

2. **Uses of Page Scripting**

   A. **Process Automation**

   B. **Testing Automation**

3. **Types of Testing & How does PS Help?**

   A. **In Project Testing**

   B. **Upgrade tests.**

4. **Summary**

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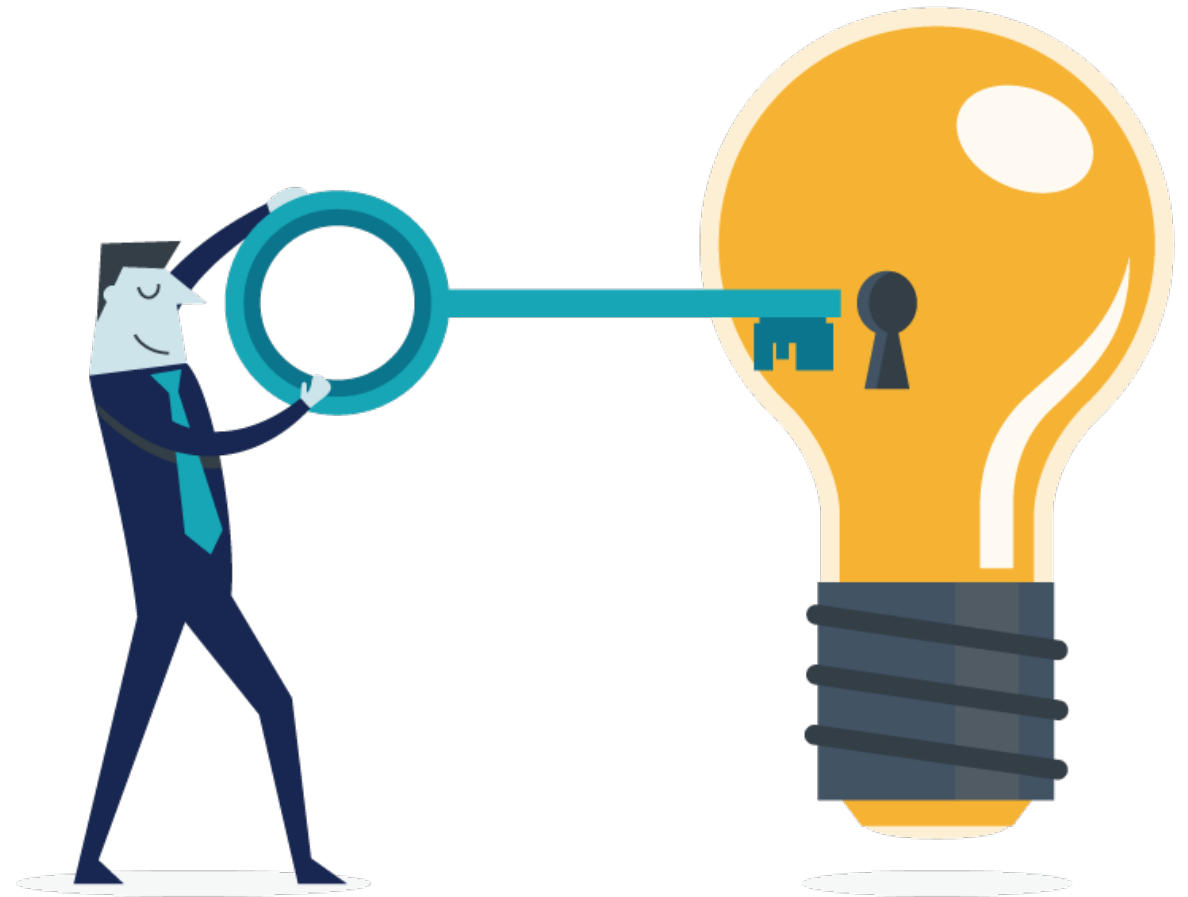
Page Scripting?

- Introduced in BC24 as a preview.
- Records steps as the user operates BC through the UI as normal.
- The steps can then be played back at will – for instance period end.
- Allows for test results to be checked against expected.
- Allows for tests to be extended by use of PowerFx functions.
- Multiple scripts can be set to run sequentially.
- Scripts can include conditional steps.
- Tests can be run in the pipeline – in a similar way to developed tests.
- Test suites can be added to and extended over time.
- Consultant tests will be passed to Cloud Control and support.
- Customer tests could (in the future) we shared with CC and support.

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The Tests we have

Microsoft Tests

- Standard set of 100s of tests
- Run by Microsoft before update
- Checks all program code for deprecated features and inefficiencies.
- Checks the code will run on the new release.
- Warns of anticipated problems with future releases.

Developed Tests

- MTEs (E.g. Clever products)
- PTEs – customer specific mods
- Designed at the same time as the app.
- Run in pipeline whenever a new version of the app is created.
- Incorporated into tests run by Cloud Control.
- Must be written by a developer.

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Saas Update Testing

- Standard Microsoft Tests
  - Run on Sandbox and issues reported before update.
- Tests Developed for ISV Solutions (MTEs)
  - Run before issue of MTEs to Appsource
  - Can be included in pipeline for Cloud Control
- Tests Developed for bespoke App (PTEs)
  - Used during project and run in pipeline
  - Checks that one mod does not trip up another
  - Checks that mod is compatible with new release (for Cloud Control).
- Consultant Unit Tests – Currently – PS can help!
  - *Specific tests for features – may need to be run multiple times (bugs)*
  - *End to End Process Run through*
- Customer Unit and UAT Tests – PS can help!
  - *Specific tests for features and scenarios*
  - *End to End process tests.*

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PS allows us to record and reuse

Tecman Tests

- Developer Handover to Consultant

- Consultant unit/feature tests

- Consultant handover to customer

- End to End process run through

Customer Tests

- Unit / Feature tests

- End User Training

- User Acceptance Tests

- End to end tests

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Required Permissions

PAGESCRIPTING - REC
PAGESCRIPTING - PLAY

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Let's take a look!

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Demo 1

Create a Replay a script.

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Guidelines

- Finish back where you started (role centre).

- When you select a value in a grid, filter it so that the desired value is the first one.

- Create new entities to use in a test whenever possible. For example, create a new customer to use in the new sales order test.

- Avoid dependencies on data that might not be available during playback.

- Break down recording to small parts for easier maintenance, for example:
  - Recording 1: create customer.
  - Recording 2: create sales order.
  - Recording 3: post sales order.

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Some More Guidelines

- Think about your script and plan it before you start.
  - What feature are you trying to test?
  - Is this a positive or negative test?
  - How can you make it resilient?

- Give your scripts meaningful names (avoid spaces).

- Store them all in the same folder.

- Run them multiple times so you are sure of them.

- Be aware that (currently) some BC messages will stop your script.

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Making your scripts more flexible by Changing Properties.

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Let's take a look!

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Demo 2

Add a calculated field to the Script

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Running Multiple Scripts together

- Requires the creation of a master script that runs the others.

- Not too hard, I managed it (I'll share a sample).

- Uses Yaml script language (stands for "Yaml ain't a markup language" or "Yet another Markup Language").

- Yaml is an emerging standard for data and setup information.

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Some points on Yaml files

- File extension needs to be .yml

- Spaces are really important (tabs can't be used).

- Edit with notepad or your favourite text editor.

- BC does give useful error message.

- There are 3rd party free to use yaml checkers on the web.

- Don't be scared – if you get in a mess, you can start again.

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Let's take a look!

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Demo 3

Run child scripts from a master.

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Questions ?

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