

Power Platform CLI Exposed

DIAMOND SPONSOR



PLATINUM SPONSOR



GOLD SPONSORS









SILVER SPONSORS









BRONZE SPONSORS















#NordicSummit





Daniel Laskewitz

Senior Cloud Advocate

Power Platform CLI Exposed



Daniel Laskewitz

Senior Cloud Advocate

Ajax-fan (currently not that fun ;-))



daniel.laskewitz@microsoft.com



https://linkedin.com/in/laskewitz



https://twitter.com/laskewitz



https://aka.ms/laskewitz



Do you want these slides?

- Download link:
 - https://aka.ms/nordic-summit-2023

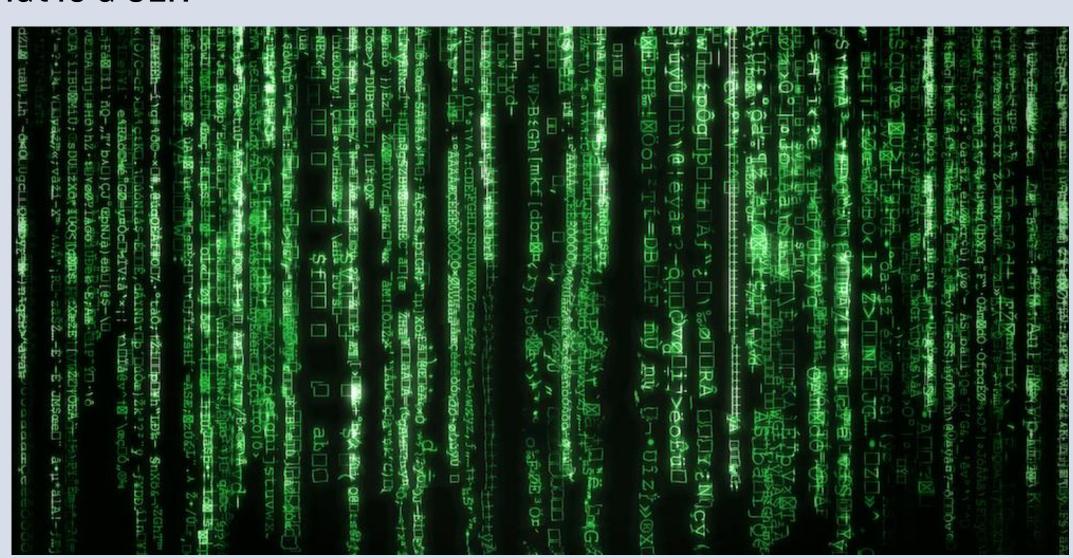
Agenda

- What is a CLI?
- What is the Power Platform CLI?
 - How do I get it?
 - How do I use it?
- Command Groups

Agenda

- Newest update
- Other uses of the Power Platform CLI
- Q & A
- Resources

What is a CLI?





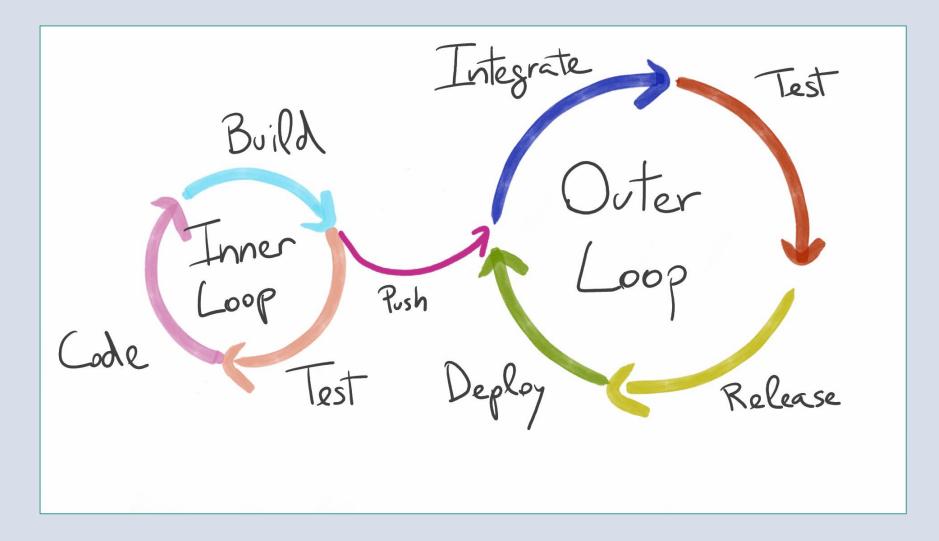
What is the Power Platform CLI?

- It's a CLI aimed at Developers &
 Advanced Makers for the Power Platform
- It enables you to connect and act on the Power Platform environments that you have
- You get a lot of commands, which help you to develop on the Power Platform or to help you manage the Power Platform



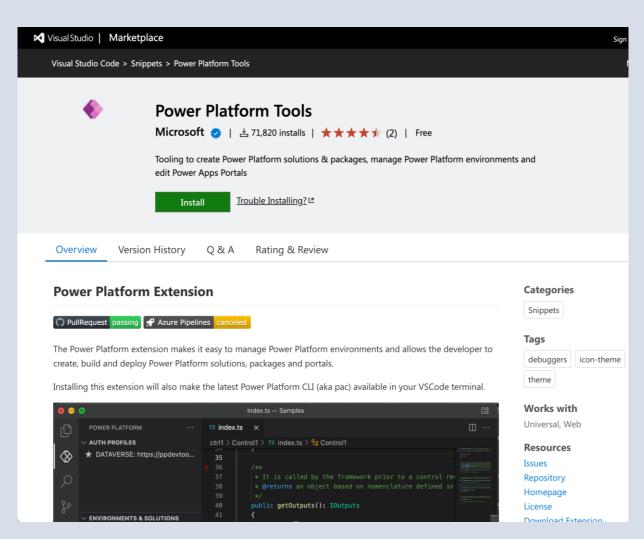


Inner loop vs outer loop

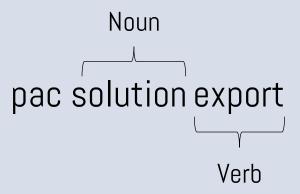


How do I get it?

- Install the standalone version via dotnet tool install
 - Run 'dotnet tool install --global Microsoft.PowerApps.CLI.Tool'
- Install the Power Platform Tools
 Extension (either locally or via GitHub Codespaces)
 - https://aka.ms/pac/vscode



How do I use it?



Microsoft PowerPlatform CLI Version: 1.27.5+g1aa2705 Online documentation: https://aka.ms/PowerPlatformCLI Feedback, Suggestions, Issues: https://github.com/microsoft/powerplatform-build-tools/discussions Usage: pac [admin] [application] [auth] [canvas] [catalog] [connection] [connector] [copilot] [help] [modelbuilder] [org] [package] [pcf] [pipeline] [plugin] [powerpages] [solution] [telemetry] [test] [tool] [virtual-agent] Work with your Power Platform Admin Account admin application Commands for listing and installing available Dataverse applications f rom AppSource Manage how you authenticate to various services auth Operating with Power Apps .msapp files canvas (Preview) Commands for working with Catalog in Power Platform catalog connection (Preview) Commands for working with Dataverse connection. (Preview) Commands for working with Power Platform Connectors connector copilot Tools and utilities for copilot scenarios help Show help for the Microsoft Power Platform CLI. modelbuilder Code Generator for Dataverse APIs and Tables Work with your Dataverse organization. org Commands for working with Dataverse package projects package pcf Commands for working with Power Apps component framework projects pipeline Work with Pipelines Commands for working with Dataverse plug-in class library plugin Commands for working with Power Pages website. powerpages solution Commands for working with Dataverse solution projects Manage telemetry settings. telemetry (Preview) Execution of automated tests for a Power App test tool Power Platform tools that can be installed and launched. virtual-agent Commands for working with Power Virtual Agent bots

How do I use it?

- Create one or more auth 👚 profiles depending on where you use it
 - Local terminal, GitHub Codespaces, CI/CD pipelines, it can all be treated differently
- Use the "pac org" commands to list 🗐 , and select 🗹 environments
 - Pro tip: you can also use the VS Code Extension to do that in VS Code or Codespaces
- Go crazy on the commands 🔊



DEMO: Get started with the Power Platform CLI

DEMO: Auth + Select environment

Command Groups

- pac admin
 Work with your Power Platform Admin account
- pac application
 Commands for listing and installing available Dataverse applications from AppSource
- pac auth (*)

 Manage how you authenticate to various services
- pac canvas
 Operating with Power Apps .msapp files
- pac catalog
 (preview) Commands for working with Catalog in Power
 Platform
- pac connection (*)
 Enables you to manage SPN connections in Dataverse

- pac connector
 (Preview) Commands for working with Power Platform
 Connectors
- pac copilot
 (Preview) Tools and utilities for copilot scenarios
- pac data Import and export data from Dataverse
- pachelp(*)
 Show help for the Microsoft Power Platform CLI
- pac modelbuilder
 Code Generator for Dataverse APIs and Table

Command Groups

- pac org (*)
 Work with your Dataverse Organization
- pac package
 Commands for working with Dataverse package projects
- pac paportal
 Commands for working with Power Pages
- pac pcf
 Commands for working with Power Apps component framework projects
- pac pipeline (*)
 Work with Pipelines
- pac plugin
 Commands for working with Dataverse plug-in class library

- pac solution (*)
 Commands for working with Dataverse solution projects
- pactelemetry
 Manage telemetry settings
- pactests
 (Preview) Execution of automated tests for a Power App
- pactool(*)
 Power Platform tools that can be installed and launched
- pac virtual-agent
 Commands for working with Power Virtual Agent bots

Newest update (August update)

- admin
 - Added new list-tenant-settings
 - Added new update-tenant-settings
- connection
 - (Preview) Added create, update, list and delete verbs for Dataverse connections with Service Principal authentication

DEMO: Create SPN & create a Dataverse connection



Why use SPN?

Non-licensed user request limits

A separate limit is established for certain activities(for example: A background process that migrates data between databases) that don't require a user to interact with the service. These limits are defined and pooled at the tenant level. Dataverse enables you to have identities that don't require any user to interact with the service. These include:

- Application users
- Non-interactive users
- Administrative users
- SYSTEM user

Additionally, there are special free (\$0) licenses, which are used to interact with Dynamics 365 applications like Dynamics 365 Marketing. See How Marketing is licensed for more details.

For these non-licensed identities, every tenant will get an initial base request limit per tenant determined by what paid licenses are on the tenant, plus accrued limits determined by the quantity of paid Dynamics 365 Enterprise and Professional li user licenses.

500,000 base requests + 5,000 requests accrued per USL¹ up to 10,000,000 max² user licenses.

Products	Pooled non-licensed tenant-lev I requests per 24 hours
Dynamics 365 Enterprise & Professional applications ¹	500,000 base requests + 5,000 requests accrued per USL ¹ up to 10,000,000 max ²
Power Apps (all licenses)	25,000 base requests with no per-license accrual for the tenant
Power Automate (all licenses)	25,000 base requests with no per-license accrual for the tenant

DEMO: Create SPN & create a Dataverse connection



Other uses of the Power Platform CLI

- Power Platform CLI backs multiple other tools:
 - GitHub Actions
 - Azure DevOps Tools
- Can be used with GitHub Codespaces

DEMO: Codespaces & Power Platform CLI



Want to learn more?

- We created an ALM workshop for the European Power Platform Conference in June (it highlights a lot of features of Power Platform CLI):
 - https://aka.ms/EPPC23-ALM
- There is a playlist with videos on some of the command groups
 - https://aka.ms/pac/playlist

Feedback?

- Please go to the following URL to give feedback on the commands and if you have issues with the CLI you can report them there as well:
 - https://aka.ms/pac/feedback

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QAA





THANK YOU!

