1. GET THE APP

2. VISIT SESSIONS AND SPONSORS, RATE THE SESSIONS

3. EARN COLLABCOINS

4. SPEND COLLABCOINS ON SWAG AND VOUCHERS

5. TOP 5 WIN A RASPBERRY PI 400

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TEAMS GRAPH API IN PRACTICE - 2021 EDITION

Vesa Nopanen

Modern and Future Work Principal Consultant, Microsoft MVP

Sulava Oy

EUROPEAN COLLABORATION SUMMIT

EUROPEAN CLOUD SUMMIT

29TH NOVEMBER – 1ST DECEMBER 2021

MANAGING THE METAVERSE WITH TEAMS GRAPH API

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🎤 🎧 "..they call me Mr. Teams"

📣 Look me up at Twitter: **@vesanopanen**

🔗 Link with me at LinkedIn: **/in/vesanopanen**

✏️ See my blog at **https://myteamsday.com**

😎 Organizer in **#TeamsNation** and **#TeamsFinland**

🗣️ Speaker in Microsoft Ignite, Build & Business Apps
Summit and in numerous community events

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Agenda

- ~~What is Graph API~~

- Provisioning new teams using Graph API

- Live Demos

- Resources

This session

Is about

- Inspiration and Ideas 🤩 🍀
- What is possible with Teams Graph API 🤓
- Fast paced 😎
- Demo/POC code 😁
- Playing also with unsupported calls 👹
- Prone to errors 😈
- Level 300
- Especially for those who determine
  $Fun = Experimenting (PowerShell + GraphAPI) 😍

Is NOT about

- Showcase of best practice PowerShell 🙈
- Teaching Graph API calls with details 🙉
- Code with exceptions 🙊
- Production ready ✖

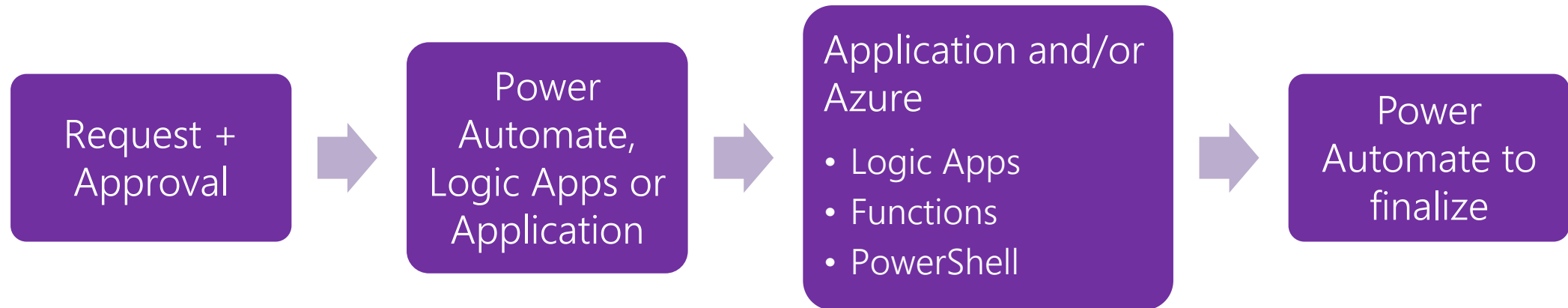# A few words about Graph API with Teams

- Plan your process: what do you need and why

- Keep it simple, don't hinder users unless you must

- Provisioning new teams:
  - Make it a useful starting point for teams
  - Use Teams team templates for structure

- Learn about Application Registration + Application & Delegated permissions

- **Graph Explorer is your true friend**

Provisioning process

- Azure API Management Service makes it easy (not premium) to call Azure Logic Apps
  (from Power Automate as part of your processing)

Request + Approval → Power Automate, Logic Apps or Application → Application and/or Azure
- Logic Apps
- Functions
- PowerShell
→ Power Automate to finalize

How I see this

- Create, configure and manage teams using Graph API
  Using application permissions for actions not otherwise possible

- Finalize with Power Automate (or Azure Logic Apps) actions
  Microsoft Teams, Planner, To Do, Office 365 Groups and so on..
  → Good number of connectors and actions are available

- Manage teams with Graph API

  - Faster

  - Do more – especially with beta API

NOW: LET'S HAVE FUN!
(RAW POWERSHELL + SOME POWER AUTOMATE)

Align provisioning and managing with Graph API

- Provision with Teams team template: manage most team channels and generic applications
- Attach configured applications to channels
- Configure team and retrieve information like Join links if needed
- A default team photo is better than no photo at all
- Remove Wikis!
- Create a starting point by copying documents (templates) and attaching guides to channels
- Automate team tags when it makes sense
- Create and Add OneNote + Planner to the team, attach to channels

Resources for more information

- Graph Explorer: https://developer.microsoft.com/en-us/graph/graph-explorer
- Microsoft Teams developer documentation: https://aka.ms/teamsdev
- Microsoft Teams API overview: https://docs.microsoft.com/en-us/graph/teams-concept-overview
- Microsoft Teams Graph API reference: https://docs.microsoft.com/en-us/graph/api/resources/teams-api-overview
- My today's blog post at https://myteamsday.com/
  - All my Graph API blog posts: https://myteamsday.com/tag/graphapi/

thank you

questions?

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