

Azure DevOps - easy to build private agents at scale

Karol Pieciukiewicz, January 2024



About me



Azure Architect

I'm focusing on cloud migrations and greenfield projects.

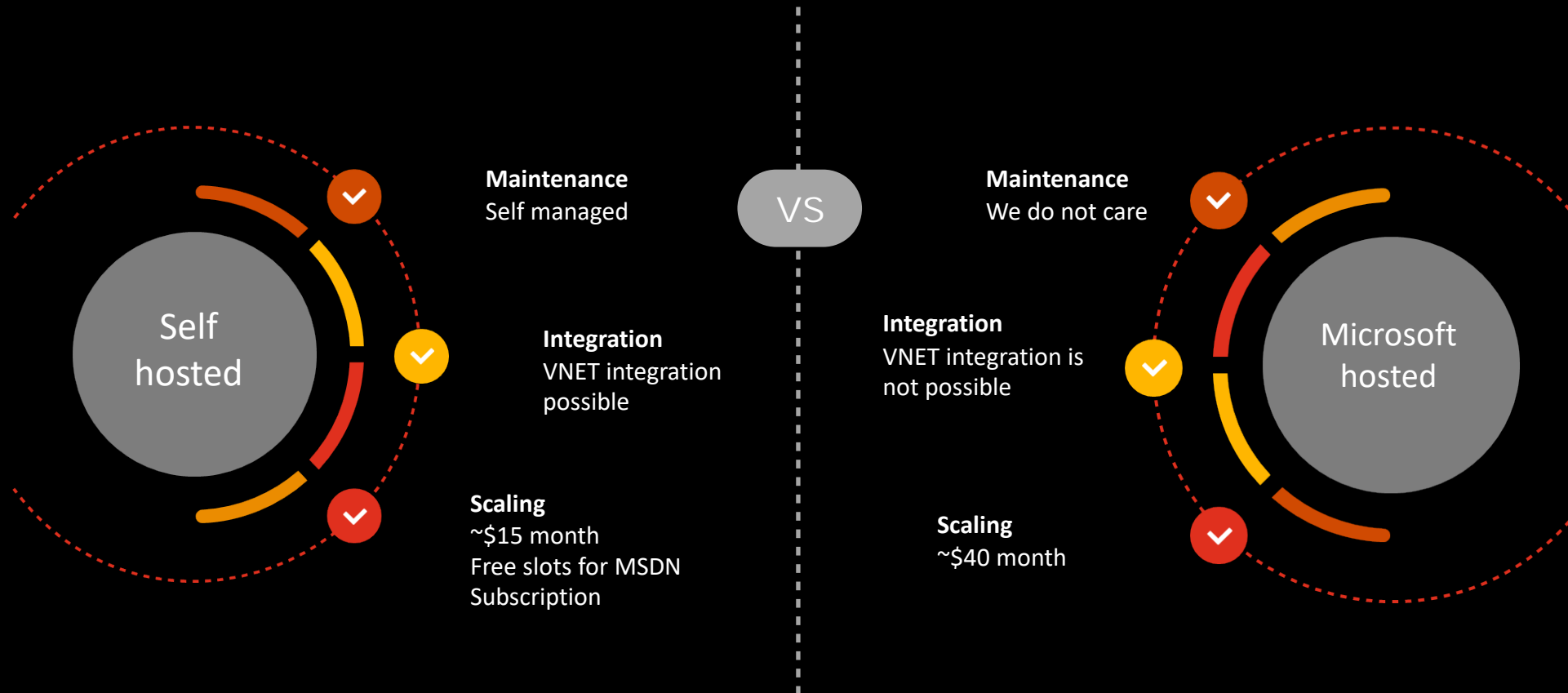
Automation fanatic

I love to make automation of the solution, both code and infrastructure.

Expertise Extender

Share knowledge through LinkedIn, AzureWay blog and events.

Azure DevOps agents



Private Azure DevOps Agents options

Azure Container Instances

- Easy to setup
- Cannot build docker images
- Need to clear agent after build

Azure Kubernetes Services with KEDA

- Difficult to setup
- Can build docker images
- Benefits from AKS

Azure Virtual Machine Scale Set

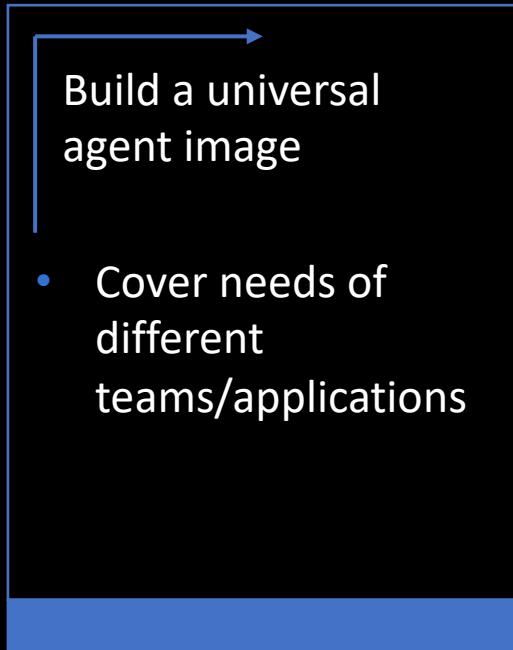
- Easy to setup
- Can build docker images
- Cost efficient

Azure Virtual Machine Scale Set agent pool

Challenges?

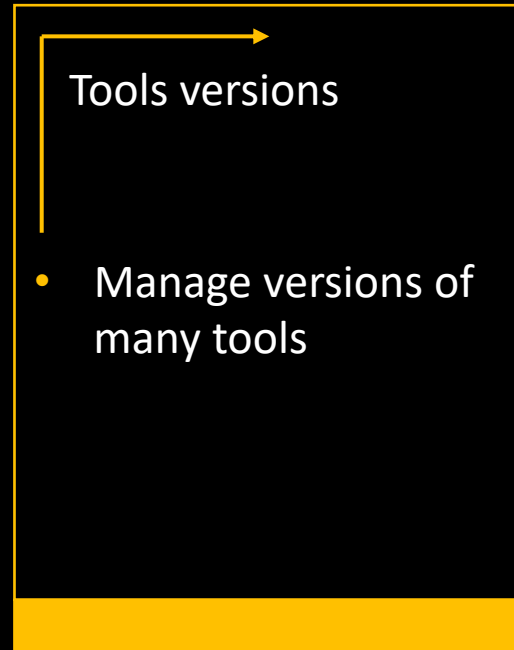
Azure Virtual Machine Scale Set agent pool

Challenges?



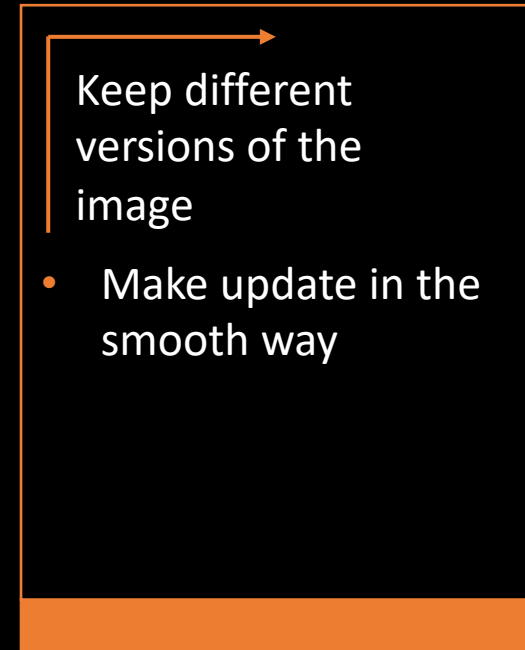
Build a universal agent image

- Cover needs of different teams/applications



Tools versions

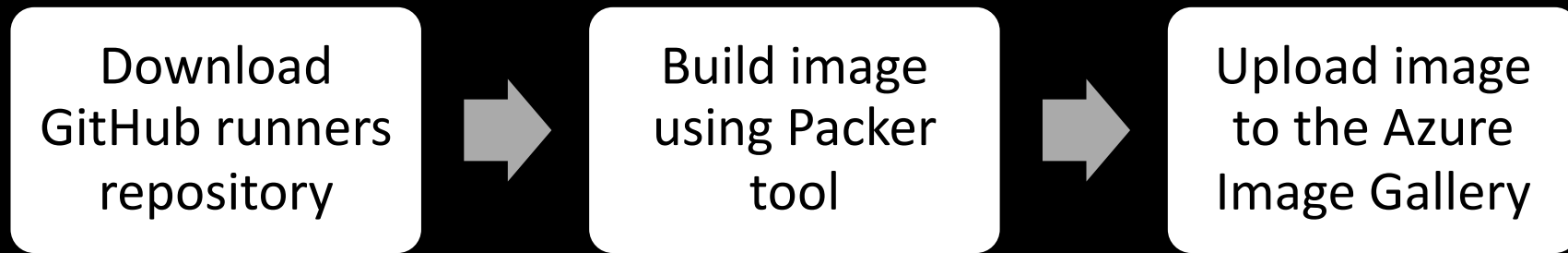
- Manage versions of many tools



Keep different versions of the image

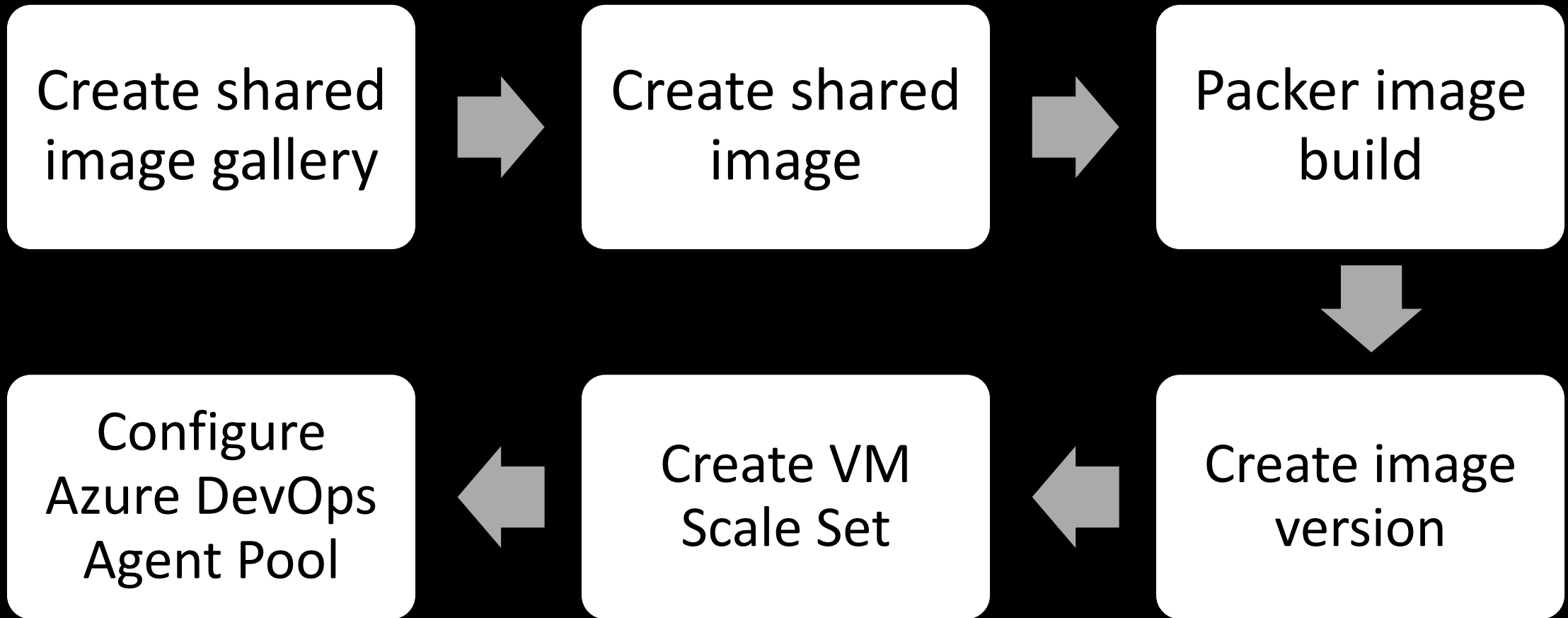
- Make update in the smooth way

Image build process



Demo

Summary of process



Issues with building an image

We stopped
hearing from agent
Hosted Agent.

E: Failed to fetch
403 Forbidden

Costs

1 month

15 agents

150 USD

~10 USD per agent

Source code and description



Stay in touch



LinkedIn