



PowerShell Conference Europe

Empowering Development with Microsoft Dev Box and Azure Deployment Environments

Jan Egil Ring

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Jane Street



KNOWLEDGE
FACTORY



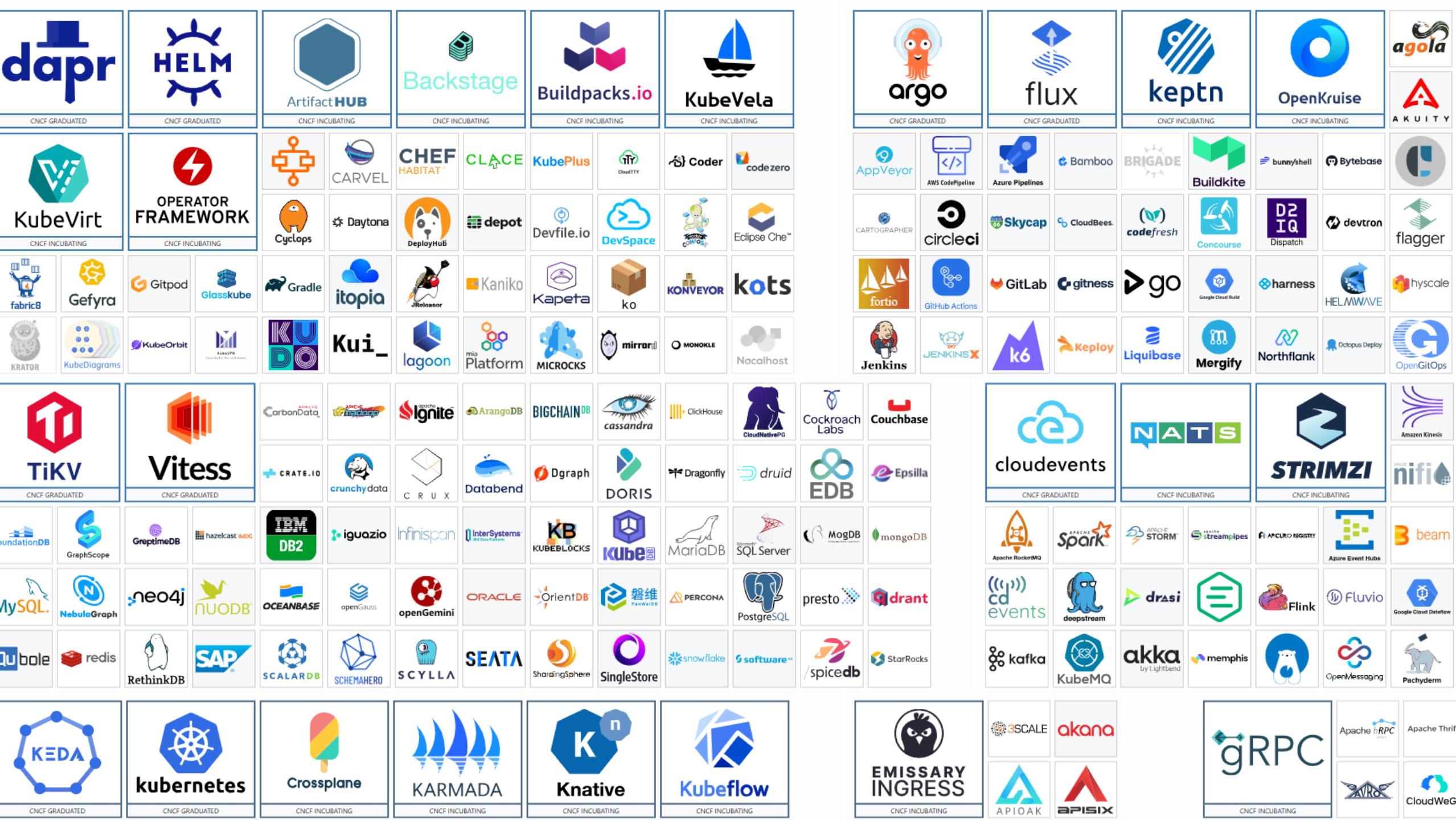


Jan Egil Ring

PSCONFEU SPEAKER

PS /> Get-Speaker █







**How long does it
take your developers
to onboard to a new
project's code base?**

5

days

Financial
Services
Institution

3

days

Renewable
Energy
Company

4

days

Financial
Services
Institution

4

days

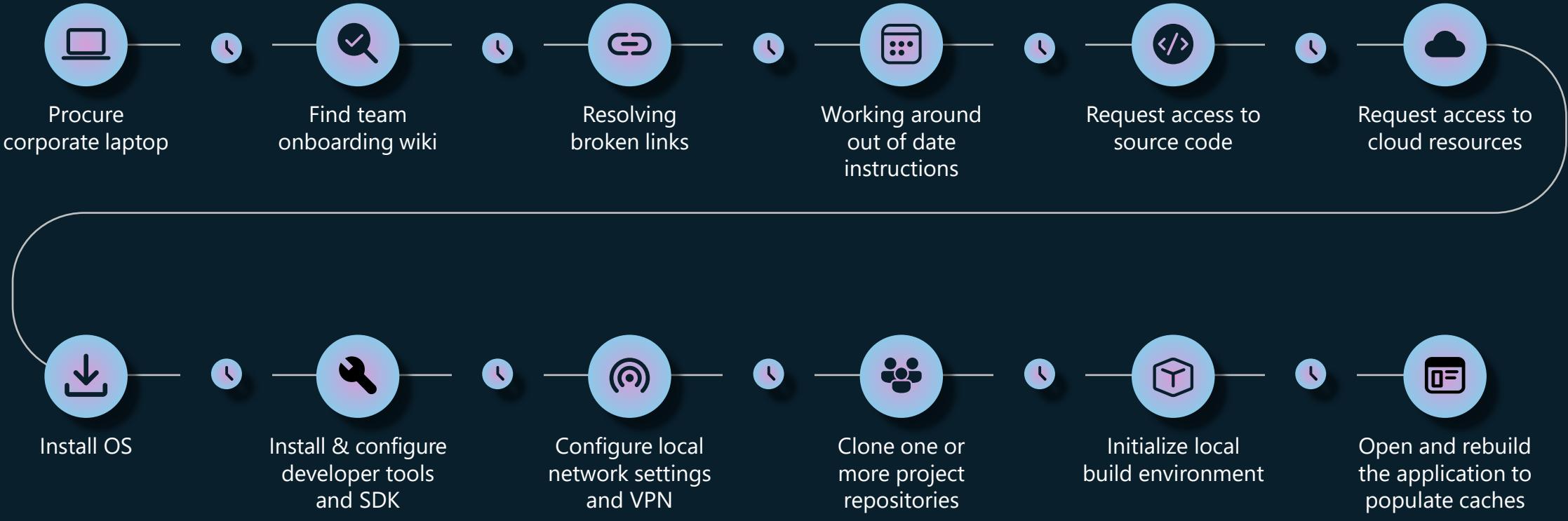
Solution
Integrator

5

days

Retail
Sales
Store

Getting access to a new project code base



⌚ Many of these tasks involve waiting before moving forward

VDI doesn't go far enough to meet developer needs



Virtual desktops

Existing Virtual Desktop Infrastructure (VDI) and Desktop as a Service (DaaS) offerings enable organizations to outfit remote workers with virtual desktops

Limitations of VDI and DaaS



Limited productivity gains

Vanilla Virtual Machines (VMs) suffer from many of the same problems devs already face with physical workstations



Lack of dev integrations

Traditional VDI lacks specialized dev tool and dev services integrations that are crucial for maximizing dev productivity

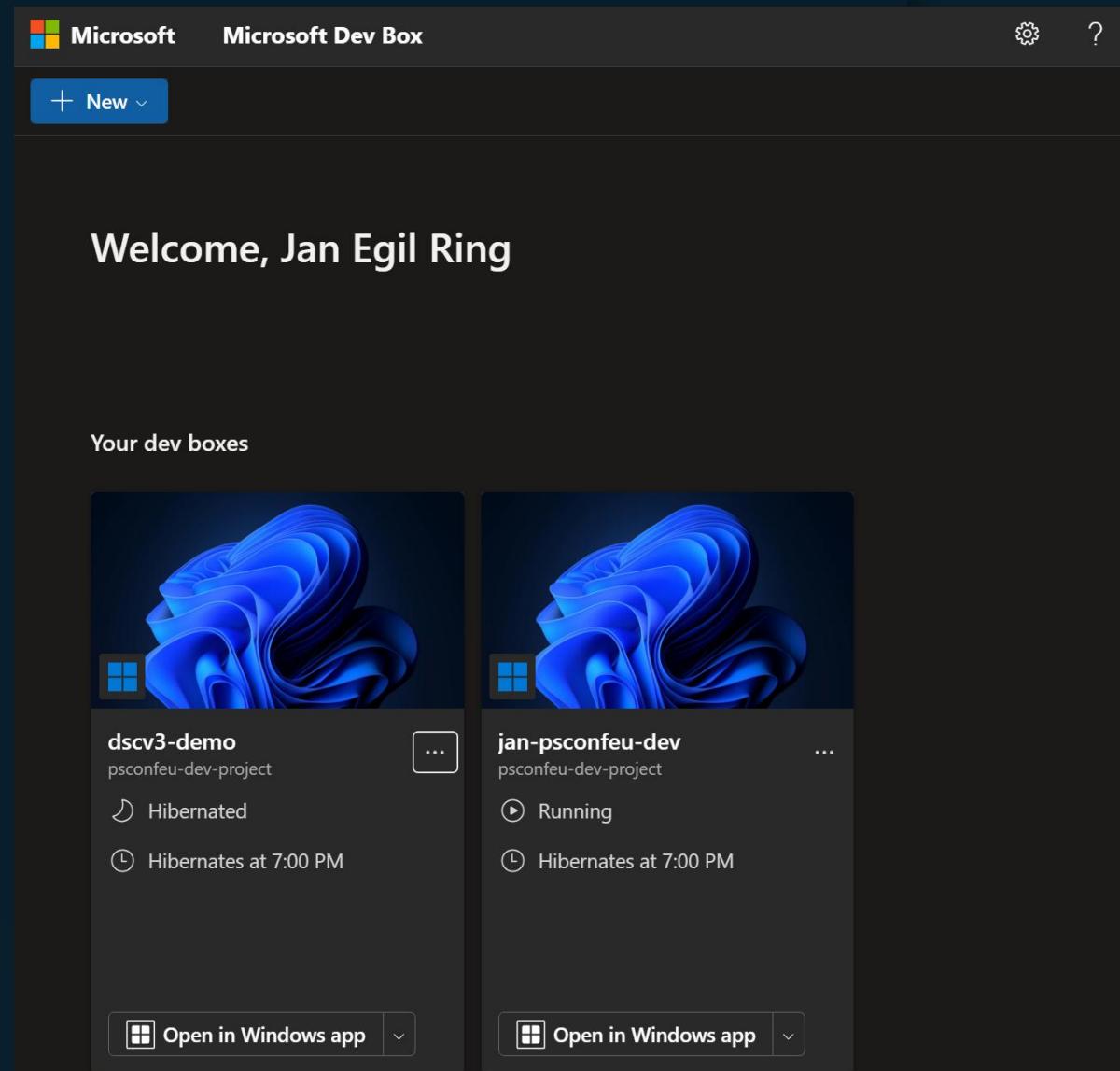


Increased security concerns

It's difficult to maximize security by project due to limited, generic security policies enforced for each VM

Microsoft Dev Box

Self-service, ready-to-code workstations
built for software development teams



Demos

We love Demos!



How can you balance velocity and control?

Developers

-  Agility
-  Collaboration
-  Performance
-  Productivity

Platform engineers

-  Security
-  Governance
-  Standardization
-  Cost management



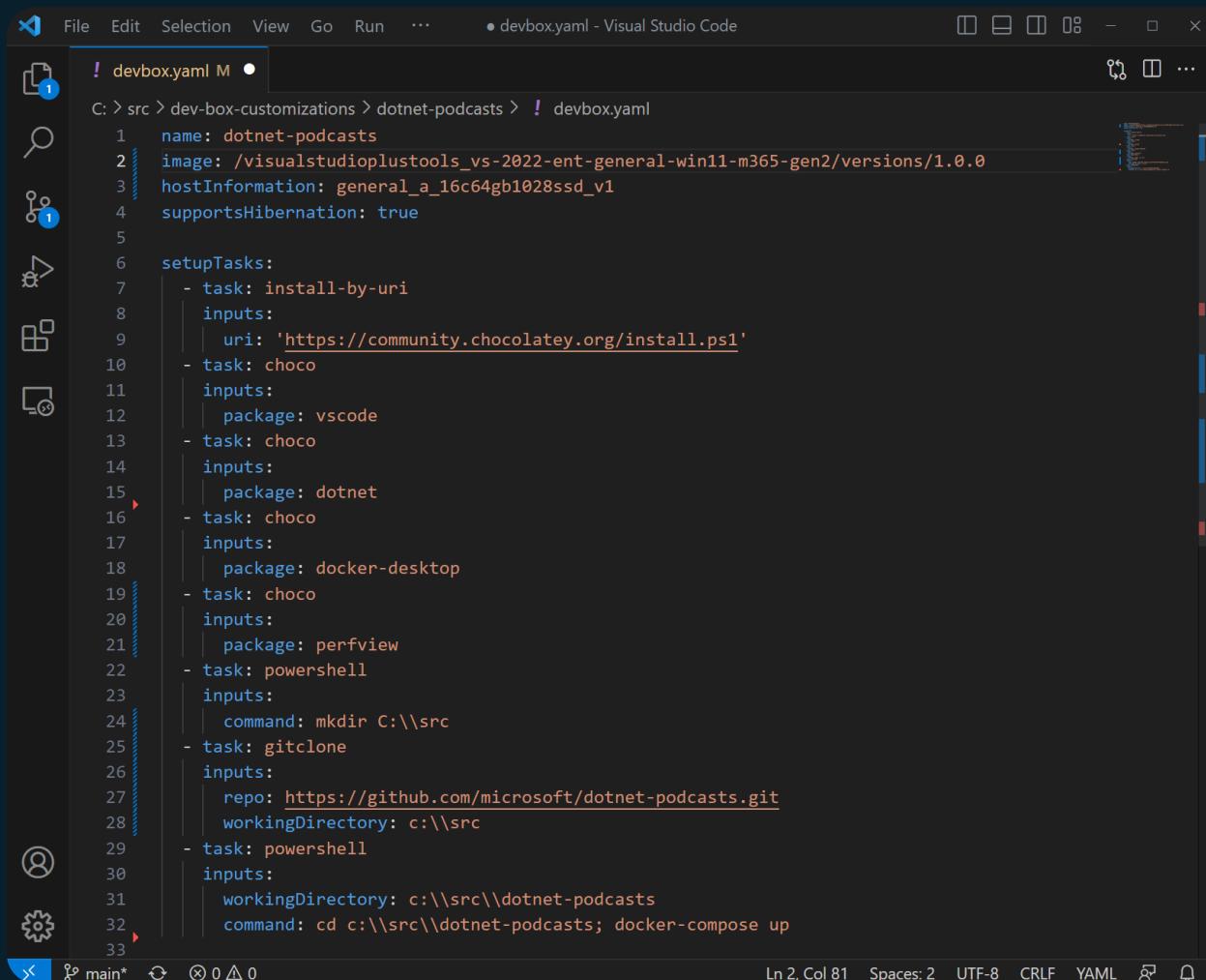
Config-as-code

Project specific customizations

Maintained by the dev team

Guardrails set by IT

<https://aka.ms/devbox/config-as-code>



```
! devbox.yaml M •
C: > src > dev-box-customizations > dotnet-podcasts > ! devbox.yaml
1 name: dotnet-podcasts
2 image: /visualstudioplustools_vs-2022-ent-general-win11-m365-gen2/versions/1.0.0
3 hostInformation: general_a_16c64gb1028ssd_v1
4 supportsHibernation: true
5
6 setupTasks:
7   - task: install-by-uri
8     inputs:
9       uri: 'https://community.chocolatey.org/install.ps1'
10    - task: choco
11      inputs:
12        package: vscode
13    - task: choco
14      inputs:
15        package: dotnet
16    - task: choco
17      inputs:
18        package: docker-desktop
19    - task: choco
20      inputs:
21        package: perfview
22    - task: powershell
23      inputs:
24        command: mkdir C:\\src
25    - task: gitclone
26      inputs:
27        repo: https://github.com/microsoft/dotnet-podcasts.git
28        workingDirectory: c:\\src
29    - task: powershell
30      inputs:
31        workingDirectory: c:\\src\\dotnet-podcasts
32        command: cd c:\\src\\dotnet-podcasts; docker-compose up
33
```

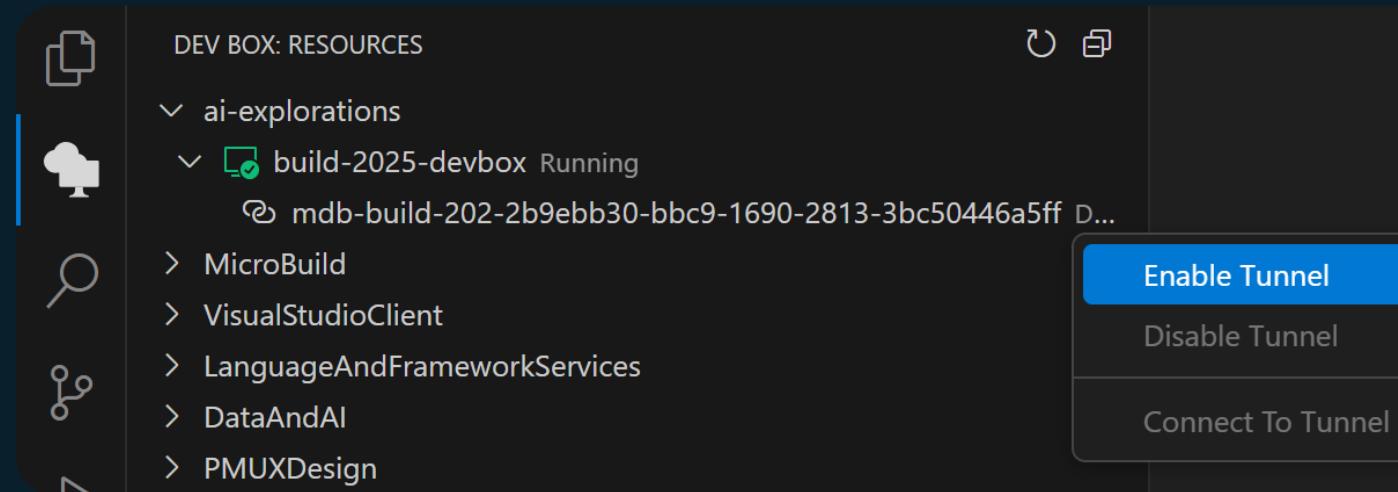
Open a dev box from VS Code

Minimize disruptions and
streamline your workflow

A new way to connect with secure tunnels

Full Dev Box experience with extensions,
workflow, and preferences

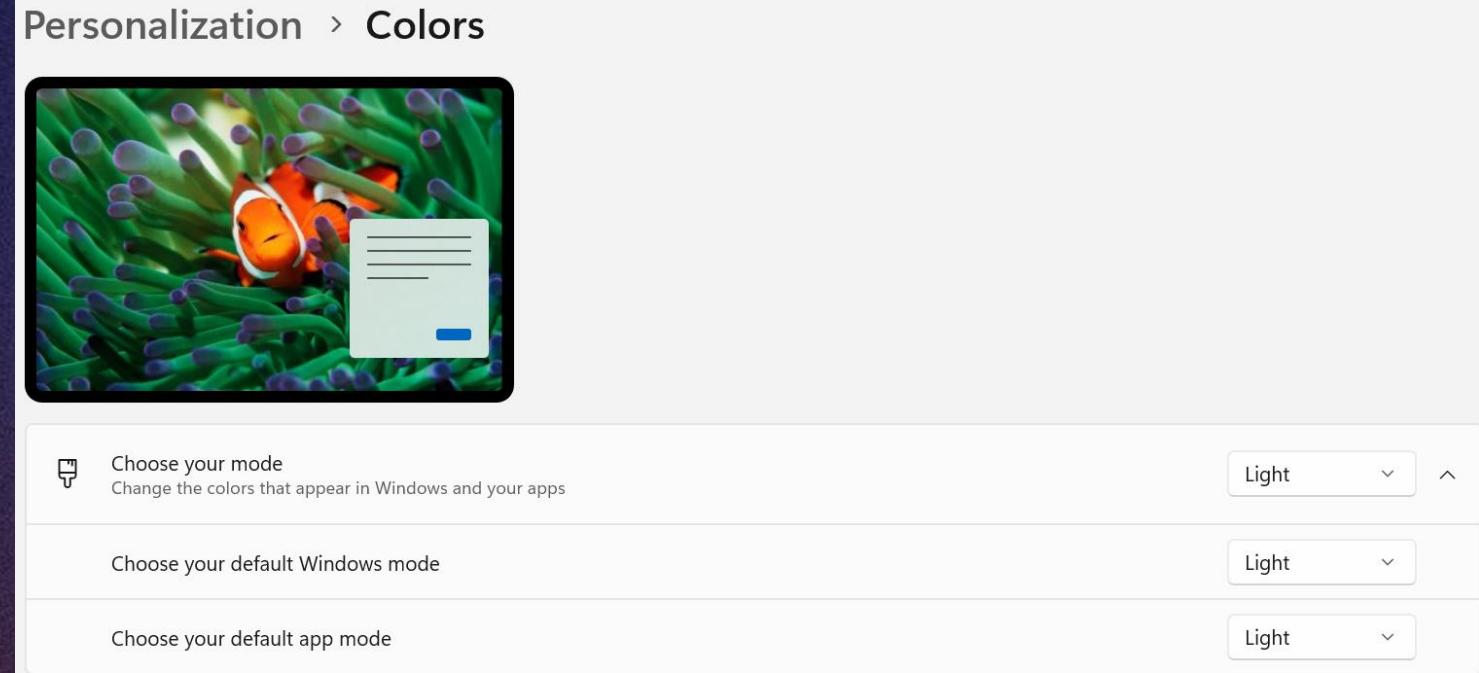
Ideal for scenarios that don't require RDP or
involve high latency networks



aka.ms/OpenviaVSCode

WinGet + DSC v3

Personalization > Colors



Choose your mode
Change the colors that appear in Windows and your apps

Light ▾

Choose your default Windows mode

Light ▾

Choose your default app mode

Light ▾

```
6 resources:  
7   - name: WindowsSettings  
8     type: Microsoft.Windows.Settings/WindowsSettings  
9     metadata:  
10    allowPrerelease: true  
11    description: Configure Windows Settings  
12    properties:  
13      TaskbarAlignment: Left  
14      AppColorMode: Dark  
15      SystemColorMode: Dark
```

How different roles use Microsoft Dev Box

Deploy from the Dev Portal



Dev Box 1:
high-compute
workspace



Dev Box 2:
data engineer
workspace



Developers

Deploy the Dev Boxes they need
to work on their current tasks
and projects

Configure dev boxes by project



Dev Box SKU



Toolset
customization



Cost controls



Dev experience
settings



Dev Teams

Create pools of Dev Boxes tailored
to developers' projects and tasks

Set and manage security policies



Network
configurations



Security
settings



Organizational
policies



IT / Dev Infra Teams

Manage Dev Boxes via Intune and
Microsoft Endpoint Manager

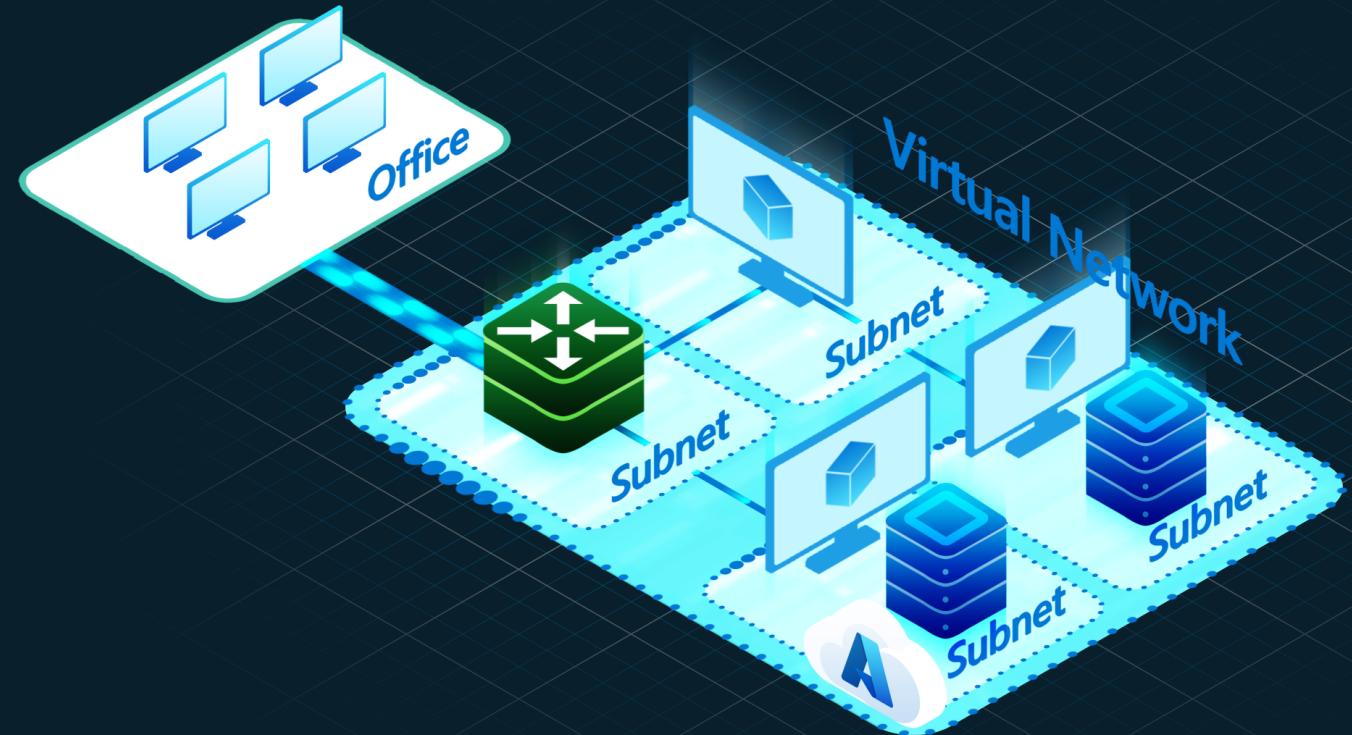
Project networking

Create secure, isolated networks for each project

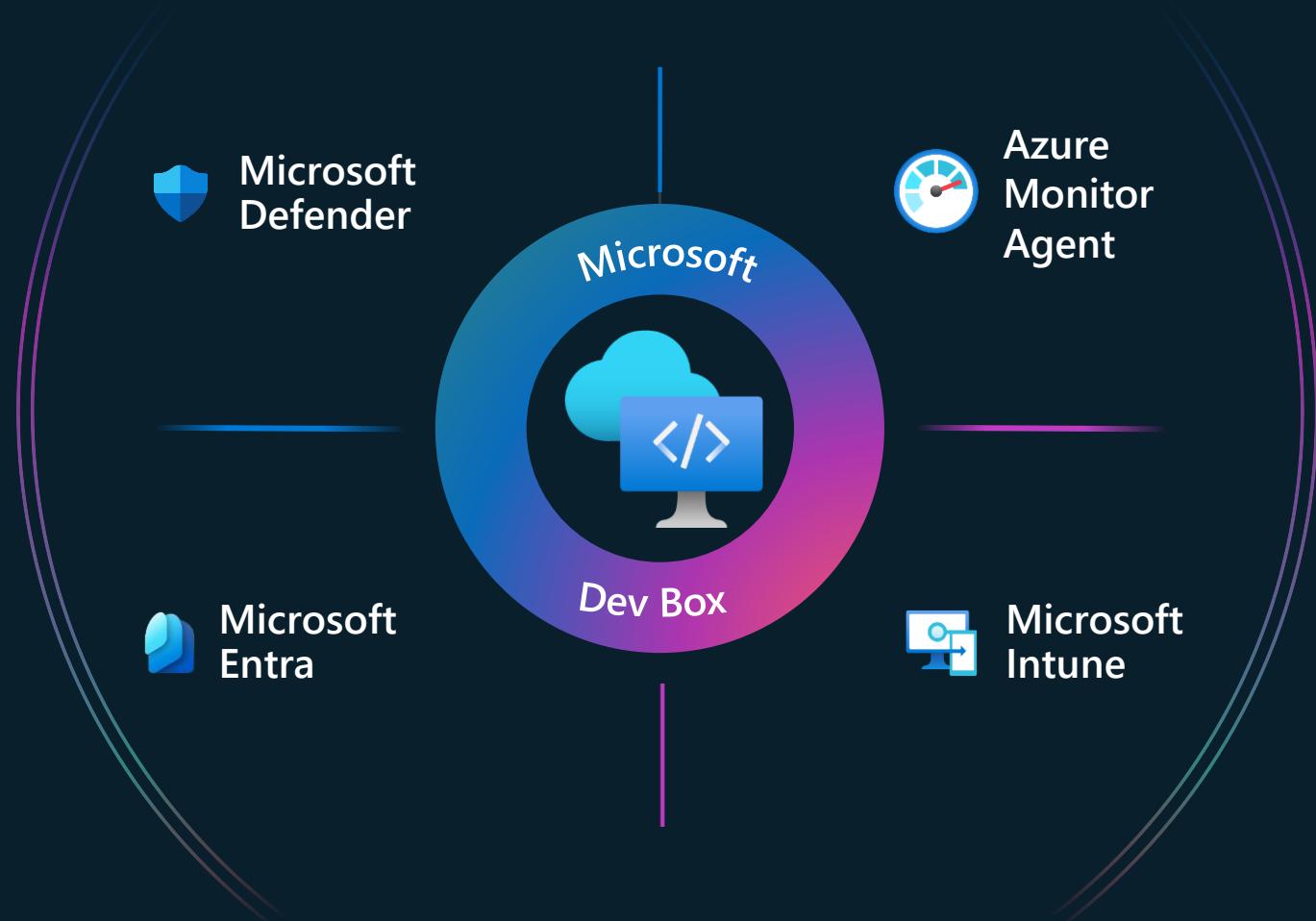
Access private networks

Built on Azure Virtual Networks

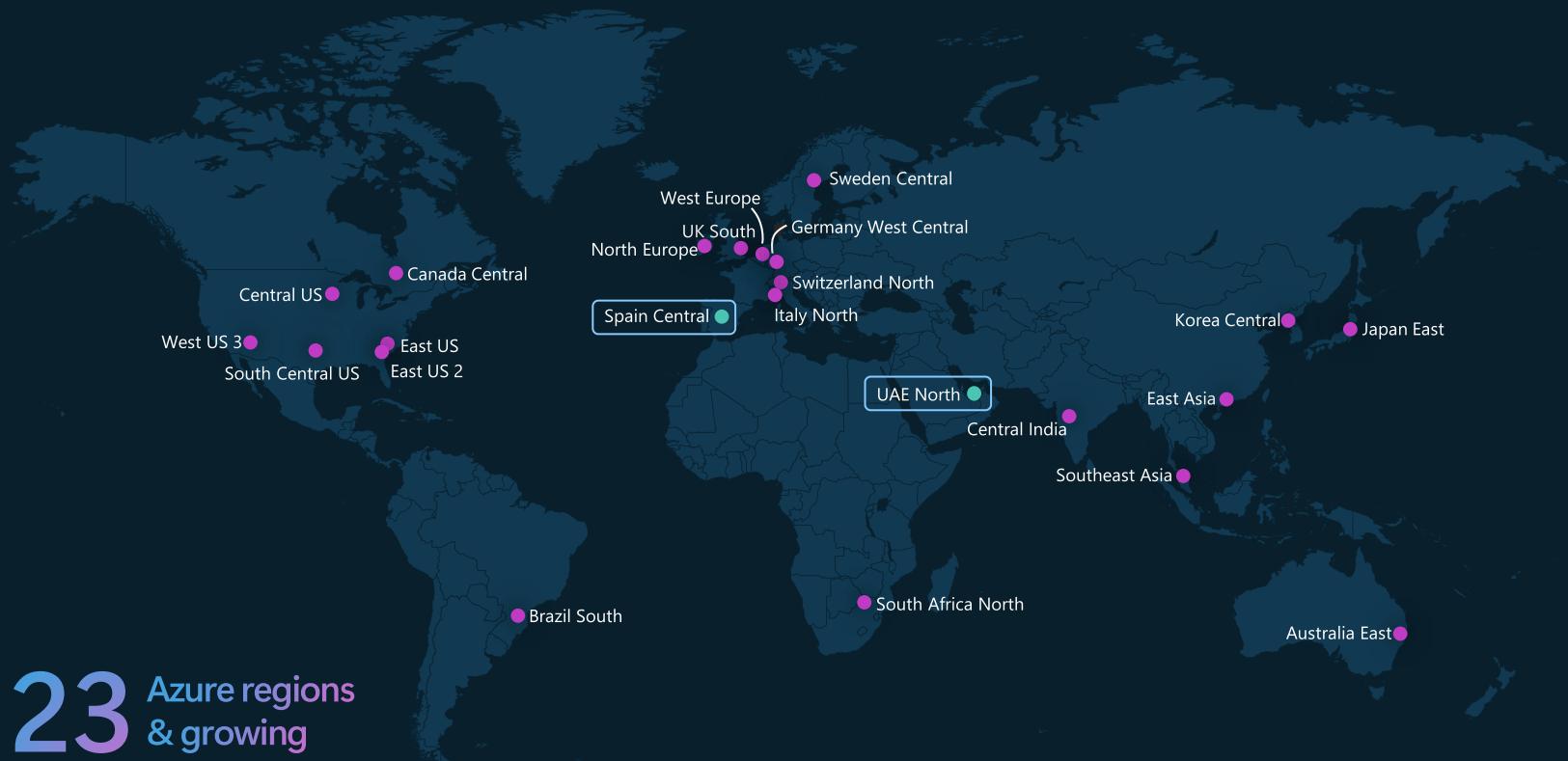
Integrated into your existing networking topologies



Use Dev Box alongside device management tools



Running a mission critical service for developers



Built on



Windows 365



Azure platform

New regions

Spain Central

UAE North

● New region ● Available region

Control and optimize cloud spend with Dev Box



Cost controls

Hibernation

Auto-stop on schedule

Generally available

Hibernate on disconnect

Generally available

Dev box limits per project

Concurrent GPU limits per project

Landing Zone Accelerator

Deploy Dev Box at scale—
fast, secure, and right

Best practices



Enterprise-ready reference implementations

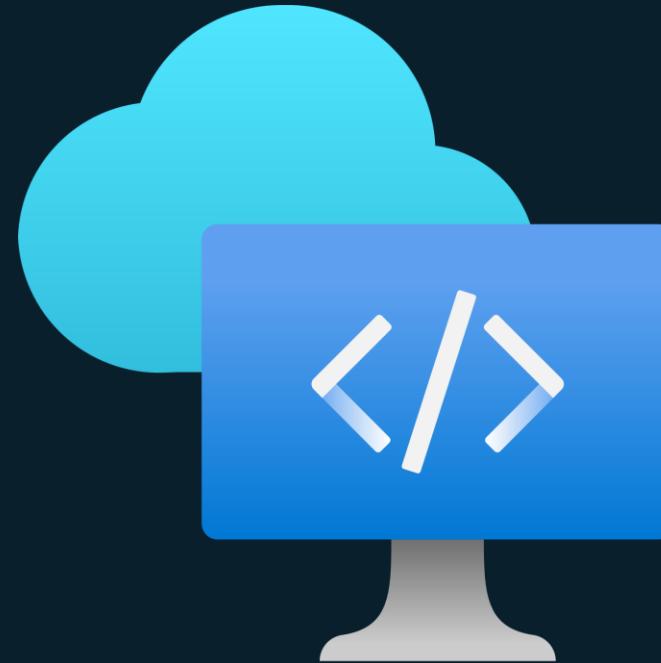


Pre-built infrastructure-as-code templates

aka.ms/DevBoxAccelerator

Microsoft Dev Box

Ready-to-code, secure cloud
development environments



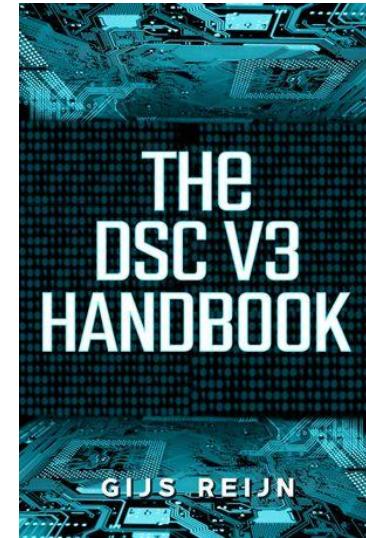


Next steps

aka.ms/devbox

aka.ms/devbox/config-as-code

aka.ms/dsc



Related sessions:

- What's new in WinGet – Monday @ 13:00
- WinGet inside Intune remediation scripts – Tuesday @ 09.00

Q&A

15 minutes





MALMO^{II}25

Dev Box enables you to pay a predictable monthly price per Dev Box instance for unlimited usage of that instance during a billing month.

For flexible usage, pay as you go up to the max monthly price based on the configuration of the Dev Box instance. When a Dev Box is created, you pay a monthly storage fee until the Dev Box is deleted and pay a compute rate for each hour of active usage during the month. When a Dev Box's total cost (including its monthly storage and hourly compute) reaches the level of the max monthly price of that instance for that month, billing will automatically stop for that Dev Box instance.

Take advantage of the predictable max monthly price per Dev Box that automatically applies for scenarios that require higher utilisation, and hourly pricing for scenarios that require flexibility to optimise your costs.

Pricing per Dev Box Instance			
SKU	Max Monthly Price	Hourly Compute	Monthly Storage
8 vCPU, 32 GB RAM, 256 GB Storage	kr1,518.05	kr16.37	kr208.71
8 vCPU, 32 GB RAM, 512 GB Storage	kr1,726.75	kr16.37	kr417.41
8 vCPU, 32 GB RAM, 1,024 GB Storage	kr2,144.16	kr16.37	kr834.82
8 vCPU, 32 GB RAM, 2,048 GB Storage	kr2,978.98	kr16.37	kr1,669.64
16 vCPU, 64 GB RAM, 256 GB Storage	kr2,827.39	kr32.74	kr208.71
16 vCPU, 64 GB RAM, 512 GB Storage	kr3,036.10	kr32.74	kr417.41
16 vCPU, 64 GB RAM, 1,024 GB Storage	kr3,453.50	kr32.74	kr834.82
16 vCPU, 64 GB RAM, 2,048 GB Storage	kr4,288.32	kr32.74	kr1,669.64
32 vCPU, 128 GB RAM, 512 GB Storage	kr5,654.78	kr65.47	kr417.41
32 vCPU, 128 GB RAM, 1,024 GB Storage	kr6,072.19	kr65.47	kr834.82
32 vCPU, 128 GB RAM, 2,048 GB Storage	kr6,907.00	kr65.47	kr1,669.64

<https://azure.microsoft.com/en-in/pricing/details/dev-box/>