

Freek Berson

@fberson





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About Freek Berson

Focus

Azure Virtual Desktop, RDS, Windows 365
Bicep and ARM Templates

From

The Netherlands

Books

Getting started with Bicep

AVD Handbook: Security Fundamentals

AVD migration guide for RDS

RDS - The Complete Guide



Awards

Microsoft MVP since 2011

Hobbies

Spending time with my wife & kids

Cycling, soccer, traveling (pre COVID-19)

Contact

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Key takeaways:

- Get familiarized on benefits of GPU in remoting windows!
- Learn about Bicep Templates to deploy to Azure!
- Watching fun demos ©
- Walk away with the Bicep code!

INTRODUCTION

What is AVD and what does Windows 365 add?

USING GPU IN REMOTING WINDOWS

Why and how?

DEPLOYING OUR SCENARIO USING BICEP

Using Bicep Templates to deploy to Azure

SCENARIO IN ACTION

Various fun demos!

TAKEAWAYS & CALL TO ACTIONS

Links to all source code and guidance on getting started!

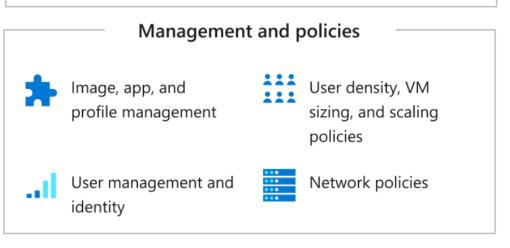




Azure Virtual Desktop

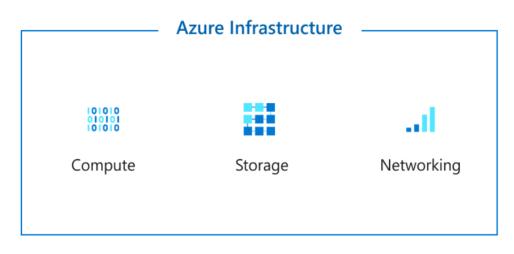
Your subscription—your control

Desktop and remote apps Full desktop Remote app Windows 10 enterprise Windows Server 2012 multi-session R2 and newer Windows 10 enterprise Windows 7 enterprise full desktop



Managed by Microsoft













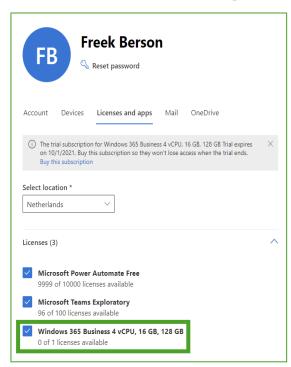


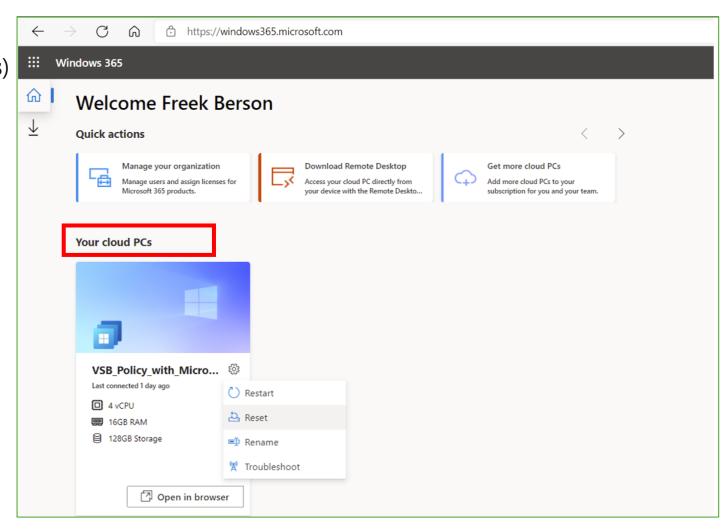
Linux



Windows 365 – Cloud PC

- ✓ Leveraging the AVD Platform
- ✓ Azure AD Joined personal desktops
- ✓ Per-user per-month **fixed license** (**24/7 access**)
- ✓ MEM is used to manage all of your Cloud PCs.
- ✓ Business and Enterprise editions



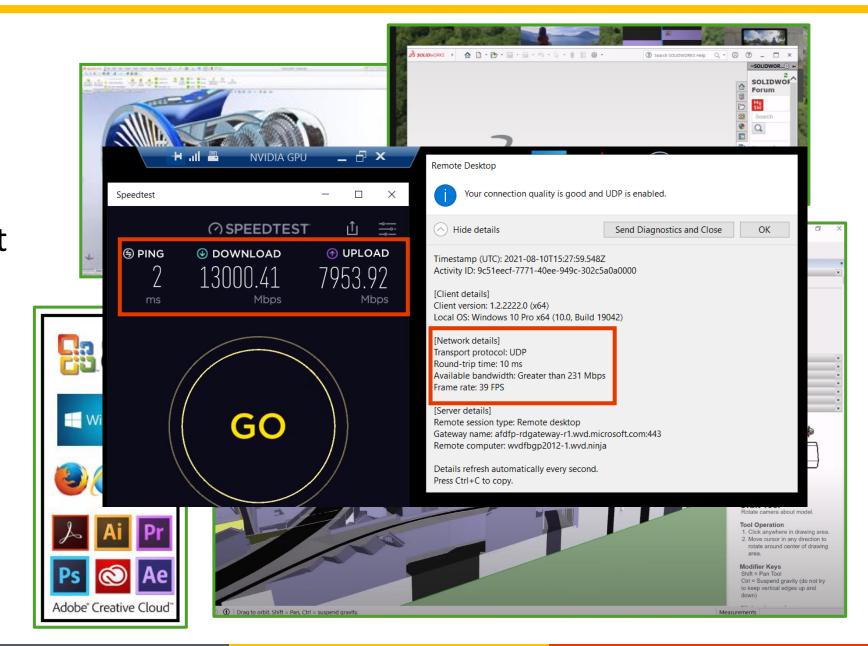




WHY: GPU in Remoting Windows

Many applications benefit from GPU to increase performance and user experience!

DEMO: GPU vs non-GPU





HOW: GPU in Remoting Windows

✓ Choose a GPU enabled SKU

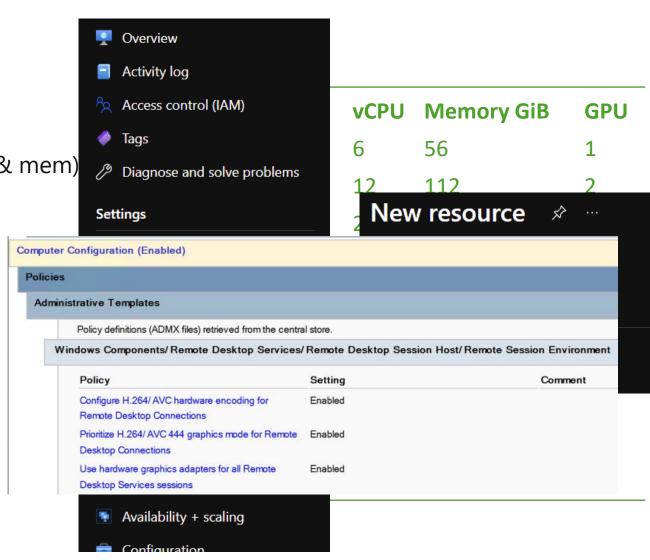
- ✓ NV-series (Nvidia Tesla M60)
- ✓ NVv3-series (Nvidia Tesla M60 + more CPU & mem)
- ✓ NVv4-series (AMD Radeon Instinct MI25)
- ✓ NVv5-series ?

✓ Install the GPU Drivers

- ✓ Using Azure VM Extensions
- ✓ Install driver manually
- ✓ Verify installation (device manager)

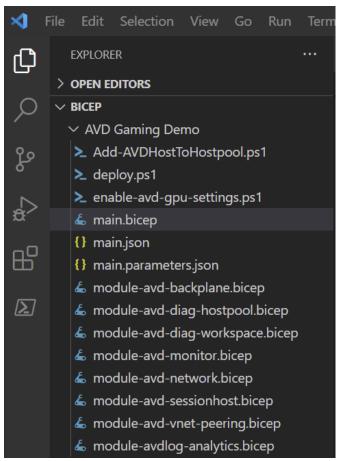
✓ Configure GPU remoting

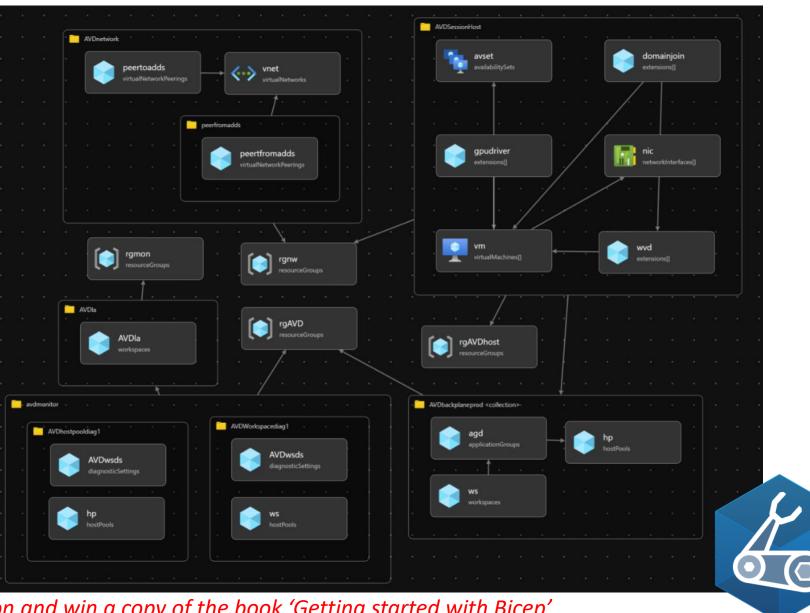
- ✓ GPO, Intune
- ✓ Registry
- ✓ 3rd party



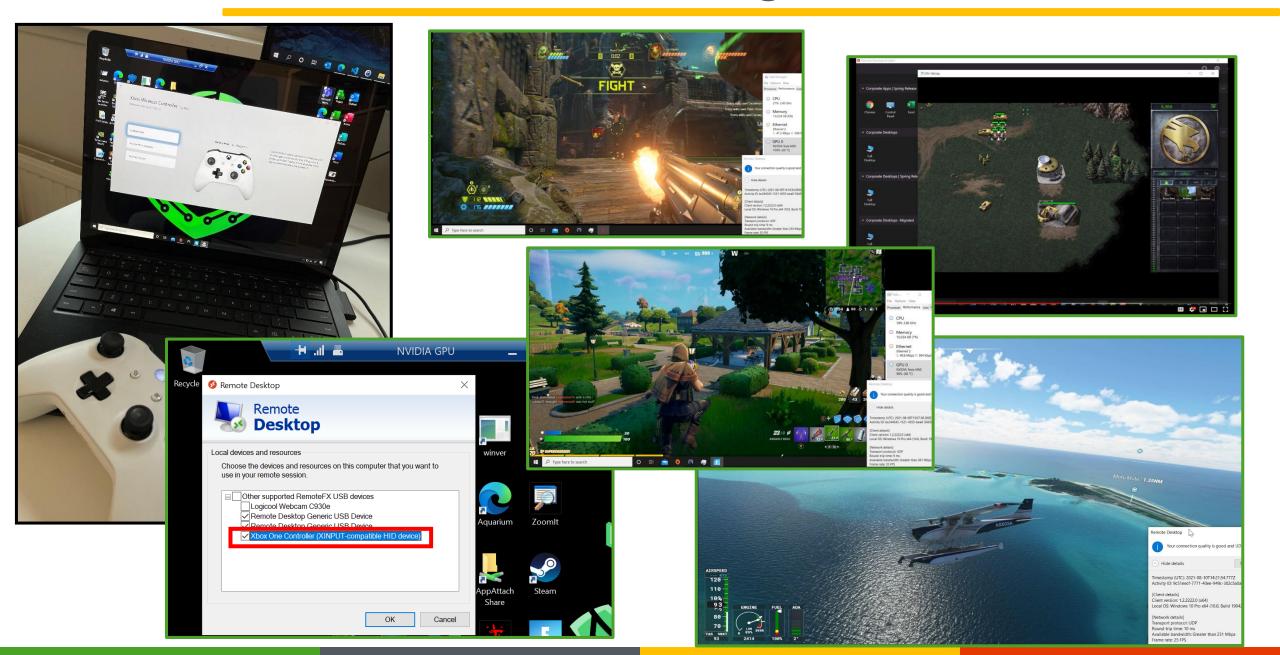


DEMO: Deploying the scenario with Bicep





DEMO: AVD Gaming console



AVD Multimedia Redirection (preview)



AVD Multimedia redirection enabled Less remote CPU usage Local GPU leveraged Smooth experience

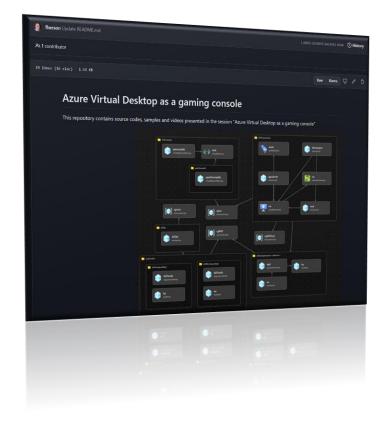
AVD Session Standard_D4s_v3 YouTube video in Edge at 4k 2160P AVD Multimedia redirection disabled High remote CPU usage Local GPU not leveraged Video stutters



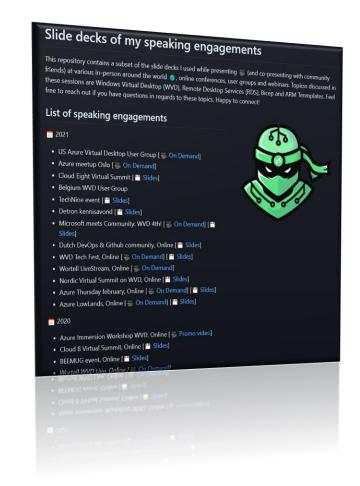
https://www.youtube.com/watch?v=i1Z4EuPDoCw

Call to action!











https://bit.ly/3AAcwfw

https://github.com/fberson/Slidedecks

Thank You



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