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| OpenHack – Windows Virtual Desktop *Draft Agenda* |

# Overview

Outline of OpenHack content – challenge titles, challenge tasks, and challenge progression

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| **Challenge Number & Name** | **Description / Draft of Requirements that drive design decisions** | **Overall Goals / Why train the students in this aspect?** | **Success checklist / what must be done right?** |
| 1 - Establish Host Pool Plans | * + Working w/client w/O365 already deployed - AAD in sync w/AD on-prem   + Client wishes to publish:     1. Full Desktop to Win Users w/USB headsets     2. GPU-enabled apps to Mac Users   + Client requires GPO changes to map drives to on-prem   + Client wants roaming profile support   + Client has Server and Multi-user Win10 and Win7 long-term requirements   + Client wants to leverage Best Practices for deployment, including Managed Identities   + Automate stop/start   + Provide cost estimates to support X number of users per solution   + MG - Client requires protocol encryption, does not want dependency on VPN for remote user access to VDI   + MG - VDI desktops must be attached to a customer managed private network   + MG - Client does not allow inbound FW exceptions into private network   + MG - Client owns M365 E5/A5 for employees (students if academic scenario) and wants to minimize cost wherever possible | * + Recognize/agree on using existing DC/AAD environment to meet minimums   + App publishing and desktop-publishing Host Pool planning to meet requirements   + MG - Network security planning to meet customer requirements | * + Plan multiple host pools   + Validate prerequisites   + Create Service Principal for deployment   + Cost estimates from Azure Estimator (RI's vs non-RI's) |
| 2 - Validate Pre-reqs | * + Validate what is missing and what is present in existing AAD world to deploy WVD   + Walk through checklist from reference sites and determine gaps   + Notify coach before moving forward/validate nothing is missing | * + All pre-reqs to get to Best Practices need to be validated one-by-one   + Plan should include Proximity Placement Groups | * + Create Service Principal   + Use ID with rights to join domain (domainjoiner)   + Create Tenant and assign WVD admins   + Leverage Proximity   + Set up GPOs for drive mappings, other things...? |
| 3 - Set up FSLogix to support roaming profiles | * Establish a Windows Server solution for hosting VMs | * + Choose appropriate Windows Server OS w/iops considerations for disk   + Place in Proximity group to ensure best network experience | * + Roaming user support that overwrites Profiles   + Deploy GPO to push FSLogix settings |
| 4 - Build Host Pool for GPUs VM Desktop | * + Deploy a WVD solution that meets GPU desktop requirements   + Provision test environment that meets initial goals of client   + Starting with GPU-enabled environment because easier to do that now to validate performance | * + Host Pool deployments for full desktops w/USB support for Windows   + Differentiate Windows client as full-featured compared to other clients   + Validate drivers are installed properly | * + Deploy using Marketplace template   + Test Windows USB   + Test multi-user capabilities & validate |
| 5 - Build Host Pool for App Publishing | * + Deploy a WVD solution that meets app publishing requirements (non-GPU)   + Clarify why non-GPU was good choice (cost, simplicity, etc.) for this approach | * + Host Pool deployments for app publishing without USB support for non-Windows | * + Deploy using Marketplace template   + Test from variety of 3rd-party OS's   + Demonstrate differences between clients |
| 6 - Build Custom VM for use in additional Host Pools | * + Client requires specific apps in a customized version of Windows multi-user Gold Image   + Build Gold Image and repurpose for Host Pool builds | * + Recognize / address requirement to build from scratch (no upgrade option)   + Choose correct OS as starting point   + Install Office and OneDrive w/appropriate Activation method   + Install 3rd party apps (MineCraft, OpenOffice, etc.) | * + Leverage Office and OneDrive per-system activation   + Use appropriate Sysprep flags to achieve correct results |
| 7 - Move an on-prem Win Server RDS to Azure | * + Client owns a Win2K12R2 RDS system and wants to keep it for existing classes | * + Forces WVD manual client install   + Demonstrates re-use of existing assets   + Reinforces idea we support more than W10 in Azure | * + Reconfigure core system before movement to Azure   + Post-deployment to Azure, install WVD agent |
| 8 - Redeploy an on-prem Win7 to Azure | * + Client owns a Win7 system and want to take advantage of end-of-life LTS | * + Reinforces Win7 migration to mitigate support horizon ending   + Reinforces single-user of Win7 vs Win10 | * + Reconfigure core system before movement to Azure   + Post-deployment to Azure, install WVD agent |
| 9 – Enable stop/start to save $ | * + Client wishes to automate on/off to minimize costs | * + Shows we have automation in Azure   + Clients can manage endpoints to meet $ challenges | * + Research & deploy automation scripts   + Test stop/start |

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