|  |  |
| --- | --- |
| Microsoft - WVD Learning Path for Technical Delivery team is shared in the table below. | |
| WVD Native Deployments | |
| 1. **New (or Greenfield) Deployments (or Brown field)** 2. **Migrate on-premises VDI to WVD** | * New or green Deployment need to cover all items listed in the Deployment section as well as Ongoing Support. * Migrate need cover all new deployment items mentioned above, in addition, all steps in Migration Section.   + Migrate RDS/VDI Infra   + Convert and Migrate User Profiles |
| **Azure Environment Assessment** | * Evaluate the current Azure footprint to drive efficiency and reuse services. Engage current Infra teams as needed.   + Network (VNET, VPN, Express Route, Firewall etc)   + Identity and Access Management (AD, AAD)   + Server Support (VM, Image and Patch Management)   + Storage |
| **Licensing and Entitlement** | Ensure there is a licensing plan in place to run the appropriate apps or desktops in Azure WVD ([Requirement](https://docs.microsoft.com/en-us/azure/virtual-desktop/overview#requirements))   | **OS** | **Required license** | | --- | --- | | Windows 10 Enterprise multi-session or Windows 10 Enterprise | Microsoft 365 E3, E5, A3, A5, F1, Business Windows E3, E5, A3, A5 | | Windows 7 Enterprise | Microsoft 365 E3, E5, A3, A5, F1, Business Windows E3, E5, A3, A5 | | Windows Server 2012 R2, 2016, 2019 | RDS Client Access License (CAL) with Software Assurance | |
| **Desktop Application Assessment** | * [Lakeside Registration](https://partners.lakesidesoftware.com/engage/wvd-assessment/) * [Azure Migrate](https://techcommunity.microsoft.com/t5/windows-it-pro-blog/accelerate-your-rds-and-vdi-migration-to-windows-virtual-desktop/ba-p/1079005) |
| **Indicative to-be state Ref architecture diagram** |  |
| **Indicative Sizing (Compute, Network, Storage, Other)** | <https://aka.ms/WVDPartnerZone> (Look at Calculator & Solution Configurator) |
| **Management Portal**   1. Integrated Management Portal (Private Preview) 2. PowerShell 3. Partner Solution | * <https://aka.ms/wvdportaldemo> * <https://docs.microsoft.com/en-us/powershell/module/windowsvirtualdesktop/> * <https://docs.microsoft.com/en-us/azure/virtual-desktop/partners> |
| **Azure Networking**   1. On-Premises Connectivity (S2S VPN, EXPRESSROUTE) for application access from Azure 2. End-User Connectivity from on-premises to Azure/WVD (ExpressRoute or Over Internet) 3. VNET (Hub-Spoke) | * Experience Estimator: [www.aka.ms/WVDEndUser](http://www.aka.ms/WVDEndUser) * <https://docs.microsoft.com/en-us/azure/networking/networking-overview> |
| **Identity and Access Management**   1. Deploy one of the followings:  * Azure Active Directory Domain Services * Domain Controller on Azure IaaS VM * Domain Controller on On-Premises  1. Create AD Organization Unit (OU) structure for WVD host pools (recommended to have an OU per host pool) 2. Create GPOs to manage access and security on the WVD Session Hosts | * <https://aka.ms/WVDPartnerZone> (Look at Deep Dive, Slide 12) * [WVD requirements](https://docs.microsoft.com/en-us/azure/virtual-desktop/overview#requirements) * Create Users and AD Security Groups as required |
| **Security and Compliance**   1. VDC Architecture 2. Partner Solutions 3. SSO with ADFS 4. MFA conditional Access to WVD 5. Azure Firewall or Network Appliance 6. FW, NSG, RBAC, Security Policies 7. Azure Security Center for CWPP/CSPM 8. Azure Sentinel for SIEM/SOAR 9. AAD Premium Features | * <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/reference/vdc> * <https://docs.microsoft.com/en-us/azure/virtual-desktop/partners> * [Azure Security Center](https://docs.microsoft.com/en-us/azure/security-center/security-center-intro) * [Security Center with Azure Sentinel](https://docs.microsoft.com/en-us/azure/sentinel/connect-azure-security-center) |
| **Image Management (Deploy one of the following)**   1. SCCM 2. 3rd Party 3. Update Management 4. Build new image with Azure Image Builder (Preview) or Packer | * [Azure Image Builder (preview)](https://docs.microsoft.com/en-us/azure/virtual-machines/linux/image-builder-overview?toc=%2fazure%2fvirtual-machines%2fwindows%2ftoc.json) * [Build image with Packer](https://docs.microsoft.com/en-us/azure/virtual-machines/windows/build-image-with-packer) |
| **Storage Infra for User Profiles (Deploy one of the followings)**   1. Azure Files 2. Azure NetApp Files 3. Storage Spaces Direct | * <https://docs.microsoft.com/en-us/azure/virtual-desktop/store-fslogix-profile#azure-platform-details> * [Scale out File Server with Storage Spaces Direct (SOFS with S2D)](https://docs.microsoft.com/en-us/windows-server/remote/remote-desktop-services/rds-storage-spaces-direct-deployment) * [Azure NetApp Files](https://docs.microsoft.com/en-us/azure/virtual-desktop/create-fslogix-profile-container) * [Azure Files with SMB authentication using Azure AD Domain Services](https://docs.microsoft.com/en-us/azure/virtual-desktop/fslogix-containers-azure-files) * Deployments with < 50 users can also utilize a single VM with enough disk space to be used as a File Server and host User Profiles |
| **WVD Service Deployment**  **Create WVD Tenant**  **Create HostPool Deployment** | * [Create a WVD Tenant](https://docs.microsoft.com/en-us/azure/virtual-desktop/tenant-setup-azure-active-directory) |
| **Profile Management**  FSLogix Install and Configure | * [Install](https://docs.microsoft.com/en-us/fslogix/install-ht) FSLogix as part of preparing your Master Image. * [Configure](https://docs.microsoft.com/en-us/fslogix/configure-profile-container-tutorial) FSLogix on the non-persistent Session host VMs |
| **Application Management (includes Masking, Layering)**   1. Publish Application or Desktops in Host Pool 2. Implement FSLogix App Masking 3. MSIX App Attach 4. Application Layering Profiles (Deploy one of the followings)  * Microsoft App-V * Liquidware FlexApp | * Publish [Applications or Desktops](https://docs.microsoft.com/en-us/azure/virtual-desktop/manage-app-groups) * <https://docs.microsoft.com/en-us/fslogix/implement-application-masking-tutorial> * <https://docs.microsoft.com/en-us/azure/virtual-desktop/app-attach> |
| **WVD Management**   1. Manage service config 2. Deploy Scaling script 3. Deploy WVD Management UI | * [Load Balancing strategies](https://docs.microsoft.com/en-us/azure/virtual-desktop/host-pool-load-balancing) * [Scaling Script](https://docs.microsoft.com/en-us/azure/virtual-desktop/set-up-scaling-script) or [Azure Automation Runbook for PowerShell](https://docs.microsoft.com/en-us/azure/automation/automation-first-runbook-textual) * [WVD Management UI](https://docs.microsoft.com/en-us/azure/virtual-desktop/manage-resources-using-ui) * [Nerdio WVD Manager](https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RE3p0Mh) |
| **Migration** | Not Required for Greenfield/New Deployment |
| **Migrate Existing RDS/VDI Infra** | Follow WVD Migration Guide |
| **Convert and Migrate User Profile** | [Liquidware](https://docs.microsoft.com/en-us/azure/virtual-desktop/partners#liquidware) ProfileUnity |
| Ongoing Support | |
| **Patch Management**   1. SCCM 2. 3rd Party 3. Update Management 4. Others | * Create an [Azure Automation Account](https://docs.microsoft.com/en-us/azure/automation/automation-quickstart-create-account) * [Enable Update Management](https://docs.microsoft.com/en-us/azure/automation/automation-tutorial-update-management#enable-update-management) * [View Update Assessment](https://docs.microsoft.com/en-us/azure/automation/automation-tutorial-update-management#view-update-assessment) * [Schedule an update deployment](https://docs.microsoft.com/en-us/azure/automation/automation-tutorial-update-management#view-update-assessment) |
| **Monitoring** | * Check [VM health and performance](https://docs.microsoft.com/en-us/azure/azure-monitor/insights/vminsights-performance) using Azure Monitor * [Can also use Azure Monitor for RDS and Windows Virtual Desktop by Sepago](https://azuremarketplace.microsoft.com/en-us/marketplace/apps/sepagogmbh.loganalyticsagent-rds?tab=Overview) * Deploy a [WVD Diagnostics Portal](https://docs.microsoft.com/en-us/azure/virtual-desktop/deploy-diagnostics) in the subscription using GitHub ARM Template |
| **Backup** | <https://docs.microsoft.com/en-us/azure/backup/backup-overview> |
| **Business Continuity and Disaster Recovery** | * <https://azure.microsoft.com/en-in/services/site-recovery/> * [FSLogic Cloud Cache](https://docs.microsoft.com/en-us/fslogix/configure-cloud-cache-tutorial) |