# Host Azure Virtual Desktops in Azure using AVD
# 4 Weeks Implementation

As organizations now more than ever look for cost efficiencies, business stability, and consistency, choosing the most efficient user desktop options virtually in cloud to decrease management overhead, scalability, ease of use and Security. SNP helps organizations looking for the right design for VDI environment with team of people with expertise in Azure Virtual Desktop solutions.

- SNP helps you deploy and scale your Windows desktops and apps on Azure in minutes with built-in security and compliance features.
- Optimized to provide rich user experience for Office365 applications like Microsoft One Drive and Microsoft Teams.
- Get a Virtual desktop infrastructure (VDI) that delivers simplified management, multi-session Windows 10 or Windows 11 systems to deliver persistent or non-persistent virtual desktops without compromising on performance.
- Optimized to provide rich user experience for Office365 applications, for instance Microsoft One Drive and Microsoft Teams.
- Effortlessly manage user profiles with FS Logix.
- Significant cost benefit as you only pay for what you use.
- Different Azure VM size models help you to host virtual desktops running with any kind of application.
- Customers using Windows 7 operating systems can take advantage of free security updates for 3 years by deploying Windows 7 machines in Azure.
- It is optimized for Office 365 ProPlus and supports Remote Desktop Services (RDS) environments.

## Our 4-step approach will cover assuming landing zone setup is completed:

- Azure Virtual Desktop Discovery & Assessment of the existing VDI solution.
- Azure Virtual Desktop Design and Planning.
- Deployment of the Azure Virtual Desktop Infrastructure and Testing.
- Documentation, Knowledge Transfer, and Day-2 support.

## Step 1: Azure Virtual Desktop Discovery & Assessment

SNP will work with Stakeholders & SME's from the customer team to understand below.

- Overview of customer business objective regarding virtual desktops solution.
- Overview of business applications running on the desktop solution with user locations.
- Walkthrough of existing virtual desktop solution, if any.
- Identifying the dependencies for virtual desktops infrastructure in Azure.
- Understand the requirement for profile management solution.
- Understand the existing infrastructure of network, identity and Storage on Azure for AVD.
- Understand the Naming conventions on Azure which is followed as a best practice.
- The customer's environment is analysed with services like case workshops, staging pilot and demo labs and establishing a migration roadmap.

## Step 2: Azure Virtual Desktop Design and Planning

By understanding the above requirement, SNP will work on building an Azure Virtual Desktop architecture to include the following aspects in the design:

- Architecture diagram with the Persistent or Non-Persistent host pool
- Design for Desktop or Application type Application groups for the host pools
- Planning of the Profile Management solution with the appropriate storage solution
- Networking planning for connecting On-premise to Azure virtual Desktop Network
- Identity planning for the authentication and authorization to the Azure Virtual Desktop environment.
- Planning the image management solution for various departments.
- Planning the user and group access management.
- Design for the update management and monitoring of the Azure Virtual Desktop environment.
- Planning for the Auto Scaling on the Azure Virtual Desktop based on the availability of the user sessions during various phases.

## Step 3: Azure Virtual Desktop Deployment & Testing

- Deployment of Master VM to install all the required business application.
- Installation of all the Business applications
- Configure the registries for FSLogix and various other settings.
- Sysprep the Master VM and generalize the machine.
- Capture the Master VM and create image and store in the Azure Compute Gallery.
- Deploy Workspace and Host pool.
- Deploy session hosts(Desktop Application group or Remote App) to the host pool using the image from the
- Azure Compute Gallery
- Configure all the required RDP Properties
- Assign the user groups to the Application group so that users can access the host pools.
- Configure Azure Monitor insights on the Azure Virtual Desktop Environment.
- Configure Auto Scaling on the Host pools.
- Configure the Multi factor Authentication using the Entra Conditional access policies, if any.
- Enable backup on the files share used for profile management.
- Subscribe to the Feed and access the assigned host pools for testing
- Test the FSLogix(if the profile is loading from the Azure Files or not)
- Test the functionality of the business applications
- Test the Working of the Office365 applications
- Test the RDP properties

## Step 4: Documentation, Knowledge Transfer and Day-2 support

By understanding the above requirement, SNP will work on building an Azure Virtual Desktop architecture to include the following aspects in the design:

- Discovery and Planning documentation.
- Architecture design and planning document for Azure Virtual Desktop.
- Implementation/as-built document of Azure Virtual Desktop setup.
- Provide the required SOP documents for User access, image management etc.
- Knowledge Transfer and Day-2 Support
  - Hand over the documentation for review
  - Leverage SNP's Managed Operations Services for Day-2 support

# About SNP Technologies Inc.

SNP's consulting services help businesses of all sizes transform with innovative, cloud-based solutions that harness the power of Microsoft Azure.

We combine elements from our ISO certifications and Microsoft specializations as well as the most efficient and innovative technology tools and platforms to help our clients become more agile, more customer focused and more operationally efficient.

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**Data & AI Azure**

**Specialist**
Data Warehouse Migration
Kubernetes on Azure
Analytics
Infra and Database Migration
Migrate Enterprise Apps to Azure

**Microsoft** Solutions Partner

**Digital & App Innovation Azure**

**Specialist**
Kubernetes on Microsoft Azure
Modernization of Web Apps
DevOps with GitHub
Migrate Enterprise Apps to Azure

Member of
Microsoft Intelligent Security Association
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**ISO Certifications:**

**TÜV NORD** ISO 22301
ISO 22301:2019:
Business Continuity Management System

**Microsoft** Solutions Partner

**Infrastructure Azure**

**Specialist**
Azure VMware Solution
Networking Services
Infra and Database Migration
Azure Virtual Desktop

**Microsoft** Solutions Partner

**Security**

**Specialist**
Cloud Security
Threat Protection

**TÜV NORD** ISO/IEC 20000-1
ISO 20000-1:2018:
Service Management System

**TÜV NORD** ISO/IEC 27001
ISO 27001:2013:
Information Security Management System

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Let's move forward together with confidence. We're here to help at every step.
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