**TCMO AVD Plan   
  
I. Discovery**

1. What: Management AVD Capability

* Individual Workspace and Application Group
* Number of Hosts: 3
* Tools for Engineering/Admin:

-PowerShell 7

-Kubectl and Docker

-Terraform

-Git

-Notepad++

**II. Initial Setup & Prerequisites/Technical Consideration**

1. ENTRA Security Groups:

* tcmo avd users
* tcmo avd admins

1. Location in the MME:

* subscription: -atn-apps
* Resource Group: tcmo-avd-rg (USGov Virginia)

3. Networking:

* Virtual Network: atn-vnet-apps-mlz (current)
* Subnet: atn-snet-avd (10.112.96/28—11 Available Ip addreses)

**III. Implement Azure Virtual Desktop**

1. Create a Host Pool: tcmo-hp
2. Location: USGov Virginia
3. Preferred app group: Desktop
4. Host pool type: Pooled
5. LB Method: breadth-First
6. Session Limit: 12 (even distribution)

**IV. Configure VMs/Hosts, Workspace and Application Groups**

1. VMs/Hosts

* Name Prefix: tcmo-avd-vm
* Location: same as above
* Availability Zone: No Infra Redundancy Required
* Security Type: Standard (as current infra)
* Image: Windows 10 with 365 Apps installed/Size: DS3\_v2 (4vCPUs/14RAM) ($128.3)/  
  Number of VMs/Hosts: 3
* Disk size: 130 GiB/Performance Tier P15 -1100 IOPS, 125 MB/s
* Directory Join: Microsoft Entra ID
* Local admin account: Azureadmin/1qa2ws#ED$RF

2. Create Work Space: (After Host pool creation) tcmo-avd-Work Space and same location as the RG

3. Application Groups:

* Register (Yes) and add to work space
* Assignments: Add Groups already created
* Enable assignments add the RGs and access RG IAM Permissions in the RG and add:

-AVD Users: (Role) Virtual Machine User Login

-AVD Admins: (Role) Virtual Machine Administrator Login

* Access configuration  
  -RDP Properties: ENTRA Authentication to provide SSO (initially)

-Device Redirection: As available on current host pool

-Not really, App Group, but, intend to leverage current bastion host in VNet for security

-ADDC? WIN10 vs WIN SERVER

**V. Set up FsLogix**

1. Provision storage account with file share (fslogix)

* Provisioned Capacity 500 MiB
* Access the Keys on the storage account, this is needed to configure the hosts  
  2. On the host itself, access credential manager, windows credentials, add new credential  
  FQDN of storage account (localhost\<storage account name>); Password <Storage Account Access Key>  
  3. Set up Host Registry
* Go to the registry on the host, access HKEY\_LOCAL\_MACHINE, SOFTWARE, FSLogix, Profiles
* Set VHD Locations for File Share
* Add new REG\_DWORD, named “AccessNetworkAsComputerObject”, set value to 1.
* New profile will show on the share.

**VI. Test Connectivity and Install Required Software** *(An Image is another alternative is scalability is required)*

1. Software Installation:

* Tools identified during discovery. (
* Official CaC Capability ([Windows – DoD Cyber Exchange](https://public.cyber.mil/pki-pke/end-users/getting-started/windows/#:~:text=You%20can%20get%20started%20using%20your%20CAC%20by,3%20Install%20DoD%20root%20certificates%20with%20InstallRoot.%20))

**VII. Ongoing Management**

1. Monitoring and Maintenance:

* Add VMs to LAW and ensure that agent is present and running for updates.
* Schedule weekly back ups (Friday AM)

**VIII. Documentation**

* Document the setup process, configurations, and any specific instructions needed for team (internal wiki).