



# **Virtual Desktop Service – v5.4 Release Notes**

## **Virtual Desktop Service**

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# Table of Contents

Virtual Desktop Service – v5.4 Release Notes	1
VDS 5.4 release: Thursday May 13, 2021	1
VDS 5.4 release: Thursday April 29, 2021	1
VDS 5.4 hotfix: Friday April 16, 2021	1
VDS 5.4 release: Thursday April 15, 2021	1
VDS 5.4 hotfix: Tuesday March 23, 2021	2
VDS 5.4 release: Thursday March 18, 2021	2
VDS 5.4 hotfix: Tuesday March 9, 2021	2
VDS 5.4 release: Thurs, Mar. 4, 2021	2
VDS 5.4 release: Thurs., Feb. 18, 2021	3
VDS 5.4 release: Thurs., Feb. 4, 2021	3
VDS 5.4 release: Thurs., January 21, 2021	4
VDS 5.4 hotfix: Mon. January 18, 2021	4
VDS 5.4 hotfix: Fri. January 8, 2021	4
VDS 5.4 release: Thurs., January 7, 2021	5
VDS 5.4 release: Thurs., December 17, 2020	5
VDS 5.4 release: Thurs., December 3, 2020	5
VDS 5.4 release: Thurs., November 19, 2020	6
VDS 5.4 release: Thurs., November 5, 2020	7
VDS 5.4 hotfix: Wed. October 28, 2020	7
VDS 5.4 release: Thurs., October 22, 2020	7
VDS 5.4 hotfix: Wed., October 13, 2020	8
VDS 5.4 release: Thurs., October 8, 2020	9
VDS 5.4 hotfix: Wed., September 30, 2020	9
VDS 5.4 release: Thurs., September 24, 2020	10
VDS 5.4 release: Thurs., September 10, 2020	11
VDS 5.4 hotfix: Tues., September 1, 2020	11
VDS 5.4 release: Thurs., August 27, 2020	11
VDS Setup	12
VDS 5.4 hotfix: Wed., August 19, 2020	12
VDS 5.4 hotfix: Tues., August 18, 2020	12
VDS 5.4 release: Thurs., August 13, 2020	13
VDS 5.4 hotfix: Mon., August 3, 2020	14
VDS 5.4 release: Thurs., July 30, 2020	14
VDS 5.4 release: Thurs., July 16, 2020	15
VDS 5.4 release: Fri., June 26, 2020	16

# Virtual Desktop Service – v5.4 Release Notes

## VDS 5.4 release: Thursday May 13, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday May 13th, 2021 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### Virtual Desktop Service

- Bug fix for AVD host pool creation when using special characters
- Automation enhancements for long domain names in the CWA Setup deployment wizard
- Bug fix for cloning servers in a subset of scenarios in GCP deployments
- Bug fix for a scenario where deleting a snapshot wasn't functioning as intended
- Update to the email address sending notifications/messages – messages will now be sent from [noreply@vds.netapp.com](mailto:noreply@vds.netapp.com)
  - Customers safelisting inbound email addresses should add this email address

## VDS 5.4 release: Thursday April 29, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday April 29th, 2021 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

(No updates this release)

## VDS 5.4 hotfix: Friday April 16, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Friday April 16th, 2021 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### Virtual Desktop Service

- Resolve an issue with automated certificate creation that arose after last night's update that improved automated certificate management

## VDS 5.4 release: Thursday April 15, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday April 15th, 2021 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Continuous, ongoing updates to improve connectivity and communication with the vSphere / vCloud hypervisor
- Bug fix for an individual scenario where a user couldn't clone a AVD session host

## VDS 5.4 hotfix: Tuesday March 23, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Tuesday March 23rd, 2021 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Update to the displaying host pools – resolve an issue in a subset of scenarios where newly created host pools were completing successfully, but not promptly present in the VDS UI

## VDS 5.4 release: Thursday March 18, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday March 18th, 2021 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

- Virtual Desktop Service
- Allow Connect to Server functionality when end user connections to a VM are disallowed
- Phrasing adjustment to PAM messages users receive via SMS
- Assorted proactive security and performance enhancements

## VDS 5.4 hotfix: Tuesday March 9, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Tuesday March 9th, 2021 at 5pm – 5:15pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Apply an update to resolve a Connect to Server issue in a subset of scenarios

## VDS 5.4 release: Thurs, Mar. 4, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday March 4th, 2021 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Introduction of DSC-driven deployment model for Google Cloud Platform deployments
- Scripted Events update to prevent a script from being deleted while it is actively running
- Automation enhancements to the deployment wizard's handling of NetBIOS for existing Active Directory environments
- Support applying different backup schedules for individual platform servers
- Support changing a user's password to require them to reset their password at the next login in the same command
- Bug fix – allow individual VMs set to migration mode to override deployment-wide migration mode settings
- Bug fix for vSphere scenario where sending too many API commands at once caused a delay starting VMs
- Update new deployments to support .NET 4.8.0
- Assorted proactive security and performance enhancements

## VDS 5.4 release: Thurs., Feb. 18, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday February 18th, 2021 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Updates to the default install method for FSLogix per Microsoft best practices
- Proactive upgrades to platform components to support increased user activity
- Improved automation for handling certificate management variables
- Support forcing a reset of a User's MFA settings at next login when changing their password
- Remove VDS admin group from being managed within the Groups module VDS in AADDs deployments

## Cost Estimators

- Updates to reflect that certain VMs no longer have Promo price points

## VDS 5.4 release: Thurs., Feb. 4, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday February 4th, 2021 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Improved variable handling when using Connect to Server functionality
- API – side functionality for reboot and multi-select reboot functionality
- Deployment automation enhancements in Google Cloud Platform

- Improved handling of Google Cloud Platform deployments that are powered off

## **VDS 5.4 release: Thurs., January 21, 2021**

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday January 21st, 2021 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### **Virtual Desktop Service**

- Removal of TSD1 VMs from deployments selecting PaaS services for data management
- Assorted proactive security and performance enhancements
- Process streamlining for multi-server deployment configurations
- Bug fix for a specific configuration for a deployment in GCP
- Bug fix for creating Azure Files shares via the Command Center
- Update to provide Server 2019 as an OS in GCP

### **Cost Estimators**

- Assorted proactive security and performance enhancements

## **VDS 5.4 hotfix: Mon. January 18, 2021**

*Components:* 5.4 Virtual Desktop Service

*When:* Monday January 18th, 2021 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### **Virtual Desktop Service**

- VDS will be applying an update to deployments leveraging SendGrid for SMTP relay
- SendGrid is introducing a breaking change on Wednesday 1/20
- The VDS team had already been investigating upgrades to SendGrid
- We have been aware of this coming change and have tested and validated an alternative (Postmark)
- In addition to mitigating a breaking change, the VDS team has seen improved reliability and performance increases in deployments leveraging Postmark instead of SendGrid

## **VDS 5.4 hotfix: Fri. January 8, 2021**

*Components:* 5.4 Virtual Desktop Service

*When:* Wednesday January 8th, 2021 at 12pm – 12:05pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Brief, subsequent update to ensure that VDCTools is current in all deployments
  - By design, updates to VDCTools are applied intelligently – the update waits until no actions are being taken, then automatically completes any actions taken during the brief update period

## VDS 5.4 release: Thurs., January 7, 2021

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday January 7th, 2021 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Assorted proactive security and performance enhancements
- Text update – change the Command Center action from Create Azure File Share to Create Azure Files Share
- Process enhancement for using Command Center to update Data/Home/Pro folders

## Cost Estimators

- Assorted proactive security and performance enhancements

## VDS 5.4 release: Thurs., December 17, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday December 17th, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.



The next release will be on Thursday January 7th, 2021 instead of New Year's Eve 2020.

## Virtual Desktop Service

- Improved deployment automation when using Azure NetApp Files
- Enhancement to Provisioning Collections with updated Windows 10 images
- Update to VCC to better support variables in multi-site configurations
- Minor proactive security enhancement to Sites functionality
- API enhancements to Peak Live Scaling functionality within Live Scaling
- General usability and text clarity improvements in DC Config
- Assorted behind the scenes bug fixes and security enhancements

## VDS 5.4 release: Thurs., December 3, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday December 3rd, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

- Update to the FSLogix installation method
- Ongoing proactive security measures

## VDS Setup

- Update to Azure NetApp Files deployment automation – support creating:
- 4 TB Capacity Pool/Volume at minimum
- 500 TB Capacity Pool/100 TB Volume at maximum
- Improved variable handling for advanced deployment options

## Cost Estimators

- Removal of disk operations from the Google Cost Estimator
- Updates reflecting new services available by region in the Azure Cost Estimator

## VDS 5.4 release: Thurs., November 19, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday November 19th, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## VDS

- Privileged Account Management (PAM) emails now include deployment code details
- Permissions streamlining for Azure Active Directory Domain Services (AADDs) deployments
- Improved clarity for admins looking to perform admin tasks in a deployment that is completely powered down
- Bug fix for an error prompt that appeared when a VDS admin viewing RemoteApp App Group details for a host pool that is powered down
- Phrasing update to API Users to reflect that they are VDS API Users
- Faster results for returning the Data Center Status report
- Improved handling of variables for daily actions (nightly reboots, for example) for VMs
- Bug fix for a scenario where IP Addresses entered in DC Config were not saving correctly
- Bug fix for a scenario where unlocking an admin account didn't function as intended

## VDS Setup

- Form factor update – resolve a scenario where action buttons in the VDS Setup wizard were truncated



## VDS 5.4 release: Thurs., November 5, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday November 5th, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### VDS

- Introduction of scale-out mechanism for Sites in Command Center – use another Azure subscription with the same Tenant ID and Client ID
- Creation of VMs with the Data role now deploy as the VM selected in the VDS UI but will fall back to the default specified for the deployment if the VM selected is not available
- General enhancements to Workload Scheduling and Live Scaling
- Bug fix for Apply All checkbox for admin permissions
- Bug fix for a display issue when showing apps selected in a RemoteApp App Group
- Bug fix for an error prompt a subset of users see when accessing the Command Center
- Automated process improvements for manual certificate installs on HTML5 gateway VMs
- Ongoing proactive security measures

### VDS Setup

- Improved Azure NetApp Files orchestration
- Ongoing enhancements to gracefully handle Azure deployment variables
- New Active Directory deployments will automatically have the Active Directory Recycle Bin feature enabled
- Improved deployment orchestration for Google Cloud Platform

## VDS 5.4 hotfix: Wed. October 28, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Wednesday October 28th, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### VDS Setup

- Bug fix for a scenario where network details couldn't be entered properly in the deployment wizard

## VDS 5.4 release: Thurs., October 22, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday October 22nd, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## VDS

- If a VDS admin deletes a AVD host pool, automatically unassign users from that host pool
- Introduce improved, renamed automation driver – Command Center – in CWMGR1
- Bug fix for Workload Scheduling behavior in a Bug fix for updating site details when that resides in AWS
- Bug fix for Wake on Demand activation with specific Live Scaling settings applied
- Bug fix for creating a second site when incorrect settings were in place in the original site
- Ease of use improvements for Static IP details in DC Config
- Naming convention update to admin permissions – update Data Center permissions to Deployment permissions
- Update to reflect that fewer database entries are needed in single server deployment builds
- Update to manual AADDS deployment process update to streamline permissions
- Bug fix for reporting in VDS when changing the dates the report should return
- Bug fix for creating a Windows Server 2012 R2 template via Provisioning Collections
- Assorted performance improvements

## VDS Setup

- Deployment automation enhancements for primary domain controller and DNS components of a deployment
- Assorted updates to support selecting from a list of available networks in a future release

## Cost Estimators

- Improved handling of adding SQL to VMs

## REST API

- New API call to identify which Azure regions are valid and available for a subscription
- New API call to identify if a customer has Cloud Insights access
- New API call to identify if a customer has Cloud Insights activated for their Cloud Workspace environment

## VDS 5.4 hotfix: Wed., October 13, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Wednesday October 13th, 2020 at 10pm -11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Cost Estimators

- Bug fix for an issue where a scenario in the Azure Cost Estimator where RDS VMs applied OS pricing improperly
- Bug fix for a scenario where selecting storage PaaS services in the Azure Cost Estimator and Google Cost Estimator resulted in an inflated price per VDI user

# VDS 5.4 release: Thurs., October 8, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday October 8th, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## VDS

- Stability enhancements when creating a VM during hours in which Workload Scheduling is applied
- Bug fix for a display issue when creating new App Services
- Dynamically confirm the presences of .NET and ThinPrint for non-Azure deployments
- Bug fix for a display issue when reviewing the provisioning status of a Workspace
- Bug fix for creating a VM in vSphere with a specific combination of settings
- Bug fix for a checkbox error under a set of permissions
- Bug fix for a display issue where duplicate gateways were being displayed in DCConfig
- Branding updates

## Cost Estimators

- Update to the display the CPU scaling details per workload type

# VDS 5.4 hotfix: Wed., September 30, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Wednesday September 30th, 2020 at 9pm -10pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## VDS

- Bug fix for an issue where a subset of App Services VMs were improperly tagged as cache VMs
- Upgrade to underlying SMTP configuration to mitigate email relay account configuration issues
  - Note: as this is now a control plane service, this results in a slimmer deployment footprint with fewer permissions/components in a customer's tenant
- Bug fix to prevent an admin using DCConfig from resetting the a service account's password

## VDS Setup

- Improved handling of environment variables for Azure NetApp Files deployments
- Enhanced deployment automation - improved handling of environment variables to ensure required PowerShell components are present

## REST API

- Introduction of API support for Azure deployments to leverage an existing Resource Group

- Introduction of API support for existing AD deployments with different domain/NetBIOS names

## **VDS 5.4 release: Thurs., September 24, 2020**

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday September 24th, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### **VDS**

- Performance enhancement – the list of users for which Cloud Workspaces can be enabled will now populate faster
- Bug fix for handling site-specific AVD session host server imports
- Deployment automation enhancement - introducing an optional setting to direct AD requests to CWMGR1
- Improved handling of variables when importing servers to ensure that CWAgent is installed properly
- Introduce additional RBAC controls over TestVDCTools – require membership in the CW-Infrastructure group for access
- Fine tuning of permissions – grant admins in the CW-CWMGRAccess group access to registry entries for VDS settings
- Update for Wake on Demand for personal AVD host pools to reflect updates for the Spring Release – only power on the VM assigned to the user
- Update company code naming conventions in Azure deployments – this prevents an issue where Azure Backup cannot restore from a VM that starts with a number
- Replace deployment automation's use of Sendgrid for SMTP transmission with a global control plane to resolve an issue with SendGrid's back-end - this results in a slimmer deployment footprint with fewer permissions/components

### **VDS Setup**

- Updates to VM quantity selections available in multi-server deployments

### **REST API**

- Add Windows 2019 to GET /DataCenterProvisioning/OperatingSystems method
- Auto populate VDS admin first and last names when creating admins via the API method

### **Cost estimators**

- Introduction of Google Cost Estimator and a prompt for which hyperscaler you want to use for your estimate - Azure or GCP
- Introduction of Reserved Instances in the Azure Cost Estimator
- Updated list of services available per updated Azure products available by region

## VDS 5.4 release: Thurs., September 10, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday September 10th, 2020 at 10pm - 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### Virtual Desktop Service

- Improved enforcement mechanism to confirm FSLogix is installed
- Support for multi-server configurations for Existing AD deployments
- Reduce the number of API calls used to return a list of Azure templates
- Improved management of users in AVD Spring Release / v2 host pools
- Referential link update in server resource nightly report
- Fix for changing administrative passwords to support improved, slimmer permission sets in AD
- Bug fix for creating VMs from a template via tools on CWMGR1
- Searches in VDS now point to content on docs.netapp.com
- Response time improvements for end users accessing the VDS admin interface with MFA enabled

### VDS Setup

- Post-provisioning link now points to instructions [here](#)
- Updated choices for platform configuration for existing AD deployments
- Improvements to automated processes for Google Cloud Platform deployments

## VDS 5.4 hotfix: Tues., September 1, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Tuesday September 1st, 2020 at 10pm -10:15pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### VDS Setup

- Bug fix for a referential link in the AVD tab

## VDS 5.4 release: Thurs., August 27, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday August 27th, 2020 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### Virtual Desktop Service

- Introduction of the ability to use the VDS interface to automatically update AVD host pools from the Fall Release to the Spring release

- Streamlined automation to reflect recent updates resulting in a slimmer permission set required
- Deployment automation enhancements for GCP, AWS and vSphere deployments
- Bug fix for a Scripted Events scenario where date and time info was being displayed as current date and time
- Bug fix for deploying large quantities of AVD session host VMs at the same time
- Support for an increased amount of Azure VM types
- Support for an increased amount of GCP VM types
- Improved handling of variables during deployment
- Bug fix for vSphere deployment automation
- Bug fix for a scenario when disabling a Cloud Workspace for a user returned an unexpected result
- Bug fix for 3rd party apps and RemoteApp app use with MFA enabled
- Increased Service Board performance when a deployment is offline
- Updates to reflect NetApp logo/phrasing

## VDS Setup

- Introduction of a multi-server deployment option for native/greenfield Active Directory deployments
- Further deployment automation enhancements

## Azure Cost Estimator

- Release of Azure Hybrid Benefits functionality
- Bug fix for a display issue when entering custom name information into VM details
- Bug fix for adjusting storage details in a specific sequence

## VDS 5.4 hotfix: Wed., August 19, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Wednesday August 19th, 2020 at 5:20pm – 5:25pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## VDS Setup

- Bug fix for variable handling to facilitate flexible automation
- Bug fix for DNS handling in a single deployment scenario
- Reduced membership requirements of CW-Infrastructure group

## VDS 5.4 hotfix: Tues., August 18, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Tuesday August 18th, 2020 at 10pm – 10:15pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Azure Cost Estimator

- Bug fix for handling adding additional drives on certain VM types

## VDS 5.4 release: Thurs., August 13, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday August 13th, 2020 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### Virtual Desktop Service

- Add Connect to Server option for AVD session hosts from AVD module
- Bug fix for a subset of scenarios where additional admin accounts cannot be created
- Update naming convention for resource defaults – change Power User to VDI User

### VDS Setup

- Automatically validate pre-approved network settings, further streamlining deployment workflows
- Reduced permission set required for existing AD deployments
- Allow domain names longer than 15 characters
- Text layout fix for a unique combination of selections
- Allow Azure deployments to continue if the Sendgrid component presents a temporary error

### VDS Tools and Services

- Proactive security enhancements behind the scenes
- Additional Live Scaling performance enhancements
- Enhanced support for hyperscaler deployments with hundreds of sites
- Bug fix for a scenario where deploying multiple VMs in a single command only partially succeeded
- Improved message prompts when assigning invalid paths as the target for Data, Home and Profile data locations
- Bug fix for a scenario where creating VMs via Azure Backup didn't function as intended
- Additional deployment validation steps added to GCP and AWS deployment process
- Additional options for managing external DNS entries
- Support for separate Resource Groups for VMs, VNets, Services like Azure NetApp Files, Log Analytics Workspaces
- Minor back-end enhancements to the provisioning collection/image creation process

## Azure Cost Estimator

- Add Ephemeral OS Disk support
- Improved tooltips for storage selections
- Disallow a scenario where a user became able to enter negative user counts

- Display the file server when using both AVD and File Server selections

## **VDS 5.4 hotfix: Mon., August 3, 2020**

*Components:* 5.4 Virtual Desktop Service

*When:* Monday August 3rd, 2020 at 11pm – 11:05pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### **VDS Tools and Services**

- Improved handling of variables during deployment automation

## **VDS 5.4 release: Thurs., July 30, 2020**

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday July 30th, 2020 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

### **Virtual Desktop Service**

- Proactive security enhancements behind the scenes
- Improved performance monitoring behind the scenes
- Bug fix for a scenario where creating a new VDS admin presents a false positive alert

### **VDS Setup**

- Reduced permission sets applied to administrative accounts during the deployment process in Azure
- Bug fix for a subset of trial account signups

### **VDS Tools and Services**

- Improved handling of FSLogix install process
- Proactive security enhancements behind the scenes
- Improved data point collection for concurrent usage
- Improved handling of certificates for HTML5 connections
- Adjustment to DNS section layout for improved clarity
- Adjustment to Solarwinds monitoring workflow
- Updated handling of static IP addresses

### **Azure Cost Estimator**

- Ask if the customer's data needs to be HA and if so, define if cost and labor savings are available by leveraging a PaaS service like Azure NetApp Files
- Update and standardize default storage type for both AVD & RDS workloads to Premium SSD



- Behind the scenes performance enhancements

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== VDS 5.4 hotfix: Thurs., July 23, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday July 23rd, 2020 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## **VDS Setup**

- Automation enhancements for DNS settings in Azure deployments
- General deployment automation checks and improvements

## **VDS 5.4 release: Thurs., July 16, 2020**

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday July 16th, 2020 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## **Virtual Desktop Service**

- Proactive security enhancements behind the scenes
- Streamlining the AVD App Group provisioning process by auto-selecting the AVD Workspace if only one AVD Workspace is present
- Performance improvements in the Workspace module via paginating Groups under the Users and Groups tab
- If VDS admins select Azure in the Deployments tab, direct the user to log into VDS Setup instead

## **VDS Setup**

- Proactive security enhancements behind the scenes
- Improved layout to streamline the deployment workflow
- Enhanced descriptions for deployments using an existing Active Directory structure
- General enhancements and bug fixes for deployment automation

## **VDS Tools and Services**

- Bug fix for TestVDCTools performance in single server deployments

## **REST API**

- Usability enhancement for API consumption for Azure deployments – return usernames gathered even if first names are not defined on the user in Azure AD

## HTML5 Login Experience

- Bug fix for Wake on Demand for session hosts leveraging the AVD Spring Release (AVD v2)
- Updates to reflect NetApp branding/phrasing

## Azure Cost Estimator

- Display pricing dynamically by region
- Display whether relevant services are available in the region select to ensure that users understand whether the functionality desired will be available in that region. Those services are:
  - Azure NetApp Files
  - Azure Active Directory Domain Services
  - NV and NV v4 (GPU enabled) Virtual Machines

## VDS 5.4 release: Fri., June 26, 2020

*Components:* 5.4 Virtual Desktop Service

*When:* Thursday June 26, 2020 at 10pm – 11pm Eastern

*Impact:* Access to desktops and application services for End Users will remain uninterrupted. Access to Virtual Desktop Service will remain available.

## Virtual Desktop Service

As of Friday July 17th, 2020 the release of v5.4 is supported as a production release.

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