

# Array Networks Deployment Guide: AG Series and DesktopDirect with VMware Horizon View 5.2



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# 1 Introduction

DesktopDirect™ remote desktop access enables workers to access physical and virtual office desktops from any remote location – whether they are at their home office, a customer or partner site or elsewhere on a Windows, Mac, iPhone, iPad or Android device. DesktopDirect leverages proven and scalable remote desktop technologies to deliver the industry's most secure and cost-effective solution for enabling tablet and smartphone access and Bring Your Own Device (BYOD) strategies, increasing employee productivity and mitigating the effects of business continuity events.

## 1.1 Array Networks AG Series Secure Access Gateways Benefits

### **Integrated Secure Access**

Array AG Series secure access gateways integrate SSL VPN, remote desktop access (DesktopDirect) and secure mobile access to deliver scalable and flexible secure access for both remote and mobile users. From a single platform, secure access can be enabled for multiple communities of interest including employees, partners, guests and customers. In addition, AG Series physical and virtual appliances support next-generation “any-to-any” secure access via robust feature sets for BYOD and controlled access to cloud services.

### **SSL VPN Remote Access**

SSL VPN secure remote access enables anytime, anywhere access to business applications – increasing productivity while maintaining security and compliance. Users need only a common Web browser to quickly and securely access resources and applications for which they are authorized. Using SSL, the security protocol present in all Web browsers, AG Series appliances can enable a range of remote access methods across a broad spectrum of managed and unmanaged devices. Web applications can be made available within a secure Web portal, while network-level connectivity and connectivity for specific client-server applications over SSL can be enabled via a universally compatible client.

### **Remote Desktop Access**

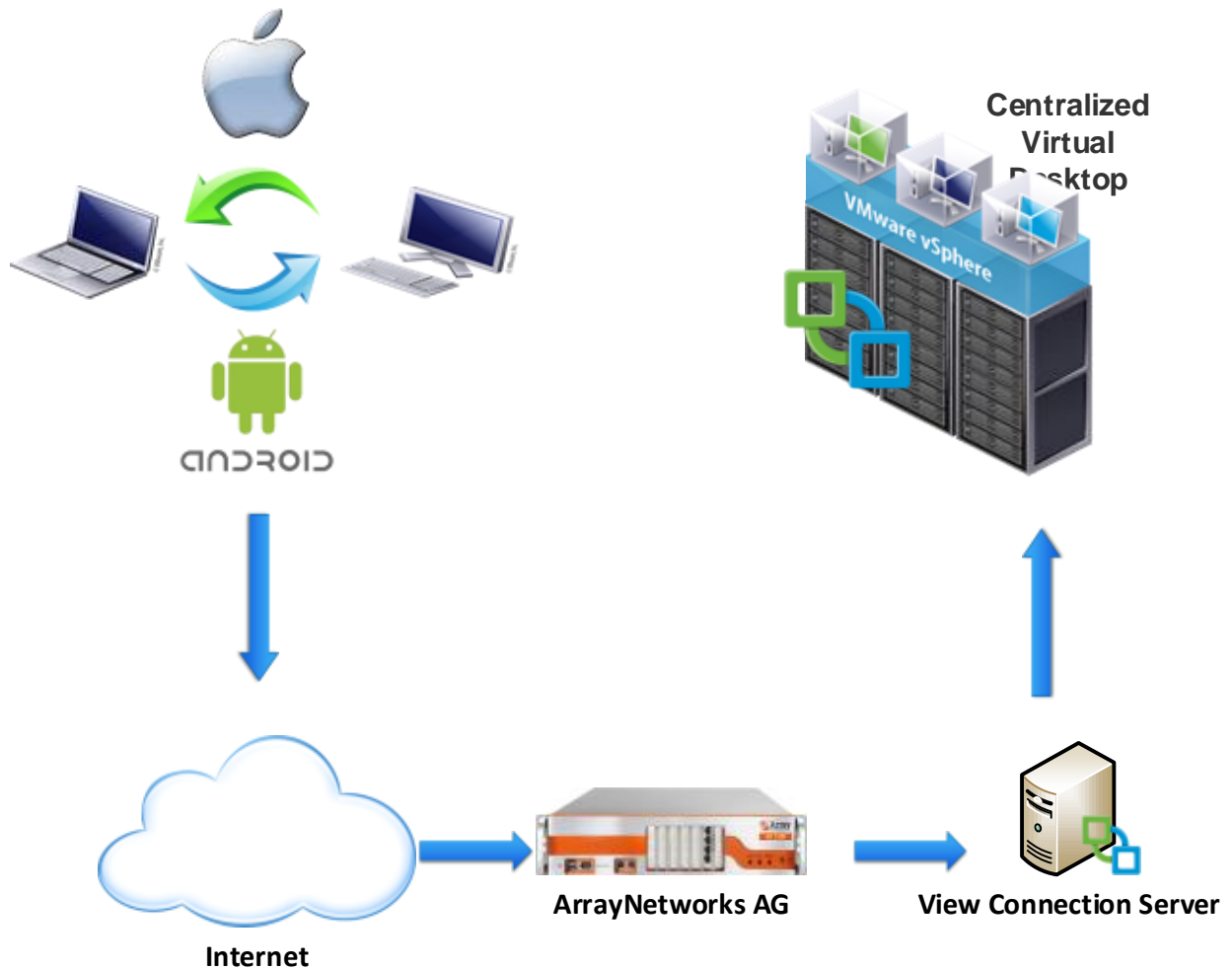
Remote desktop access allows employees to use their work PCs and laptops from any location as if they were in the office.

### **Secure Mobile Access**

In addition to supporting remote desktop for iPhone, iPad and Android devices, AG Series appliances also support secure access for native apps and HTML5 apps developed for mobile environments. By installing Array's mobile client on tablets and smart phones, native business apps can be authorized for specific users and automatically installed on end-user devices from an integrated enterprise app store. HTML5 apps can also be provisioned on a per user basis and are accessible from a secure browser within the mobile client. VPN connectivity may be established per application or per device by administrator discretion, and data and files associated with enterprise apps may be stored in a secure container to prevent data leakage. In the event that devices become lost or stolen, contents of the secure container may be remotely wiped and device-based identification may be used to prevent connectivity to the AG Series appliance.

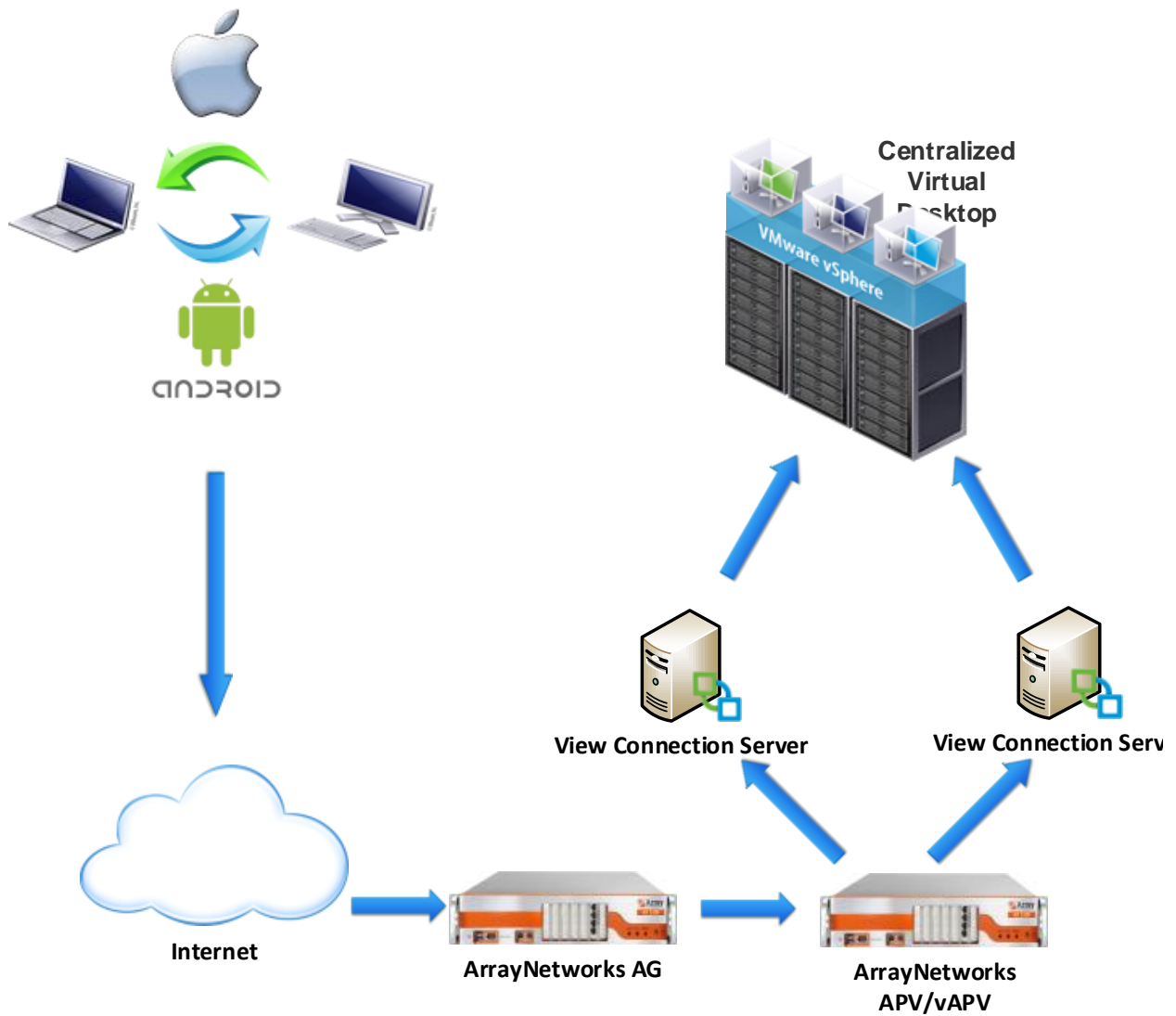
## 1.2 Basic Configuration for Array Networks AG Series

This document is written based on this basic configuration:



## 1.3 Advanced Configuration for Array Networks AG Series

For the scalability and performance in VMware Horizon View, there might be multiple connection servers in a VMware Horizon View environment. The Array Networks APV/vAPV series enables load balancing of the connection servers. Detailed configuration can be found in the document titled "Load Balancer for VMware View 5.2 Deployment Guide v1.0".



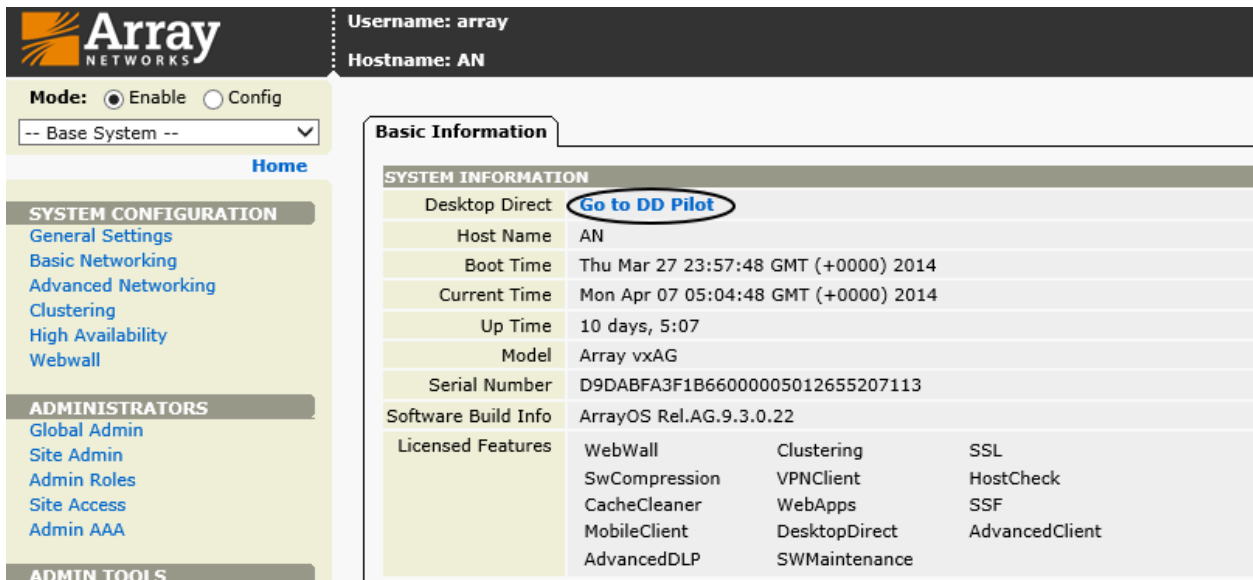
#### 1.4 Summary of the Platform Versions used in this Deployment Guide

Platform	Version
Array Networks AG Series	Rel.AG.9.3.0.55
VMware Horizon View	5.2

## 2 Configuration Steps for the AG Series

### 2.1 Create the DesktopDirect Site

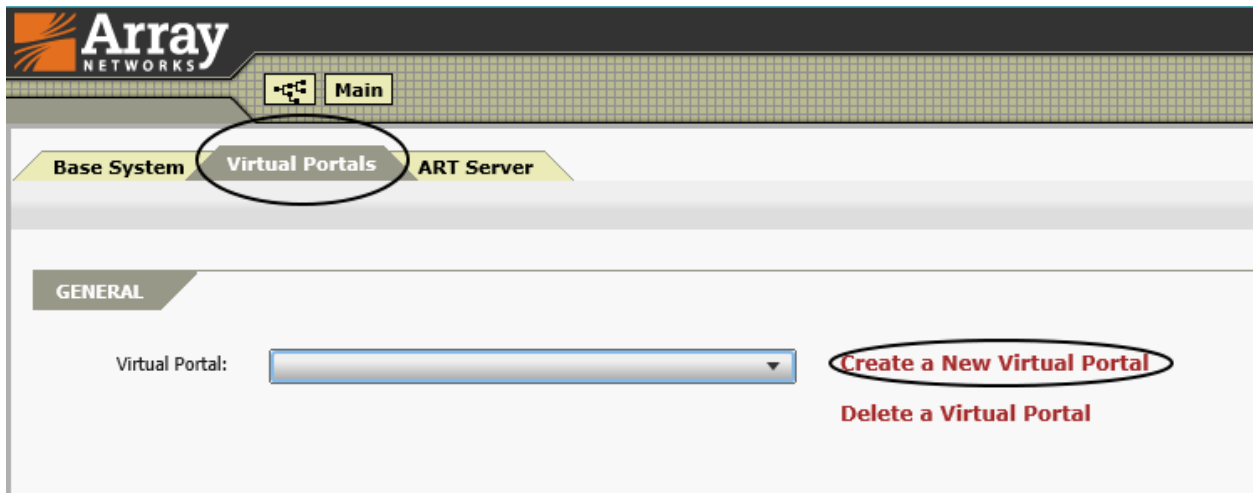
Click “Go to DD Pilot.”



The screenshot shows the Array Networks management interface. At the top, the Array logo is on the left, and the username 'array' and hostname 'AN' are displayed. Below the logo, there are mode selection options (Enable/Config) and a dropdown menu for the system. The main content area is titled 'Basic Information' and contains a 'SYSTEM INFORMATION' section. In this section, the 'Desktop Direct' entry is circled in blue, with a link labeled 'Go to DD Pilot' next to it. Other system information includes Host Name (AN), Boot Time, Current Time, Up Time, Model (Array vxAG), Serial Number, and Software Build Info. A 'Licensed Features' table is also present, listing various features like WebWall, Clustering, SSL, etc.

SYSTEM INFORMATION			
Desktop Direct	<a href="#">Go to DD Pilot</a>		
Host Name	AN		
Boot Time	Thu Mar 27 23:57:48 GMT (+0000) 2014		
Current Time	Mon Apr 07 05:04:48 GMT (+0000) 2014		
Up Time	10 days, 5:07		
Model	Array vxAG		
Serial Number	D9DABFA3F1B66000005012655207113		
Software Build Info	ArrayOS Rel.AG.9.3.0.22		
Licensed Features	WebWall	Clustering	SSL
	SwCompression	VPNClient	HostCheck
	CacheCleaner	WebApps	SSF
	MobileClient	DesktopDirect	AdvancedClient
	AdvancedDLP	SWMaintenance	

Click “Create a New Virtual Portal” in the Virtual Portals tab.



The screenshot shows the Array Networks management interface with the 'Virtual Portals' tab selected. The 'Main' button is visible at the top. Below the navigation tabs, there is a 'GENERAL' section. In this section, there is a dropdown menu labeled 'Virtual Portal:' and two buttons: 'Create a New Virtual Portal' (circled in red) and 'Delete a Virtual Portal'.

Input the portal information and SSL Certificate information based on your environment.

**Array NETWORKS** Portal Setup

Portal Setup

Apply Cancel

**GENERAL SETTINGS**  Common  Advanced

Site Name: PortalDD

Site FQDN: dd.view.local

IP Address: 10.1.100.144

Port: 443

**SSL CERTIFICATE**  Generate  Import  Import via Ftp

CSR Key Length:  1024  2048

Country Code: US

State/Province: CA

City/Locality: Milpitas

Organization: ArrayNetworks

Organizational Unit: IT

Administrator's Email: support@arraynetworks.net

Private Key Exportable:  No  Yes

## 2.2 Configure AAA

Click “Configure AAA.”

The screenshot shows a configuration page with a breadcrumb trail: **Base System** > **Virtual Portals** > **ART Server**. The **GENERAL** section contains a dropdown menu for **Virtual Portal:** set to **DDSite**. To the right are links for **Create a New Virtual Portal** and **Delete a Virtual Portal**. Below is the **PORTAL INFORMATION** table:

PORTAL INFORMATION	
<b>IP Address:</b>	10.1.100.144:443
<b>URL:</b>	https://10.1.100.144
<b>Instance:</b>	default

The **CONFIGURATION TASKS** section lists several options, with **Configure AAA** circled in red:

- Configure AAA
- Assign Instance
- Look and Feel
- SSL Certificates

Select the authentication method “LocalDB” and click “+”.

The screenshot shows the **Authentication Method** configuration page. The breadcrumb trail is: **Virtual Portal** > **DDSite** > **AAA**. The **Authentication Method** dropdown is set to **LocalDB**. Below is the **LOCALDB ACCOUNTS** section, which contains a table with the following data:

Users	
User	
viewuser01	

The table has a search icon, a minus sign, and a plus sign in the top right corner. The plus sign is circled in red.



Input the user account information.

Array NETWORKS

Virtual Portal > DDSite > AAA > New User

LocalDB Users

Apply Cancel

LOCALDB USERS

User Name: viewuser01

Password: .....

Confirm Password: .....

Click "Apply" then "Back".

Array NETWORKS

Virtual Portal > DDSite > AAA

Authentication Method

Apply Cancel Back Save Configuration Options

AUTHENTICATION METHOD

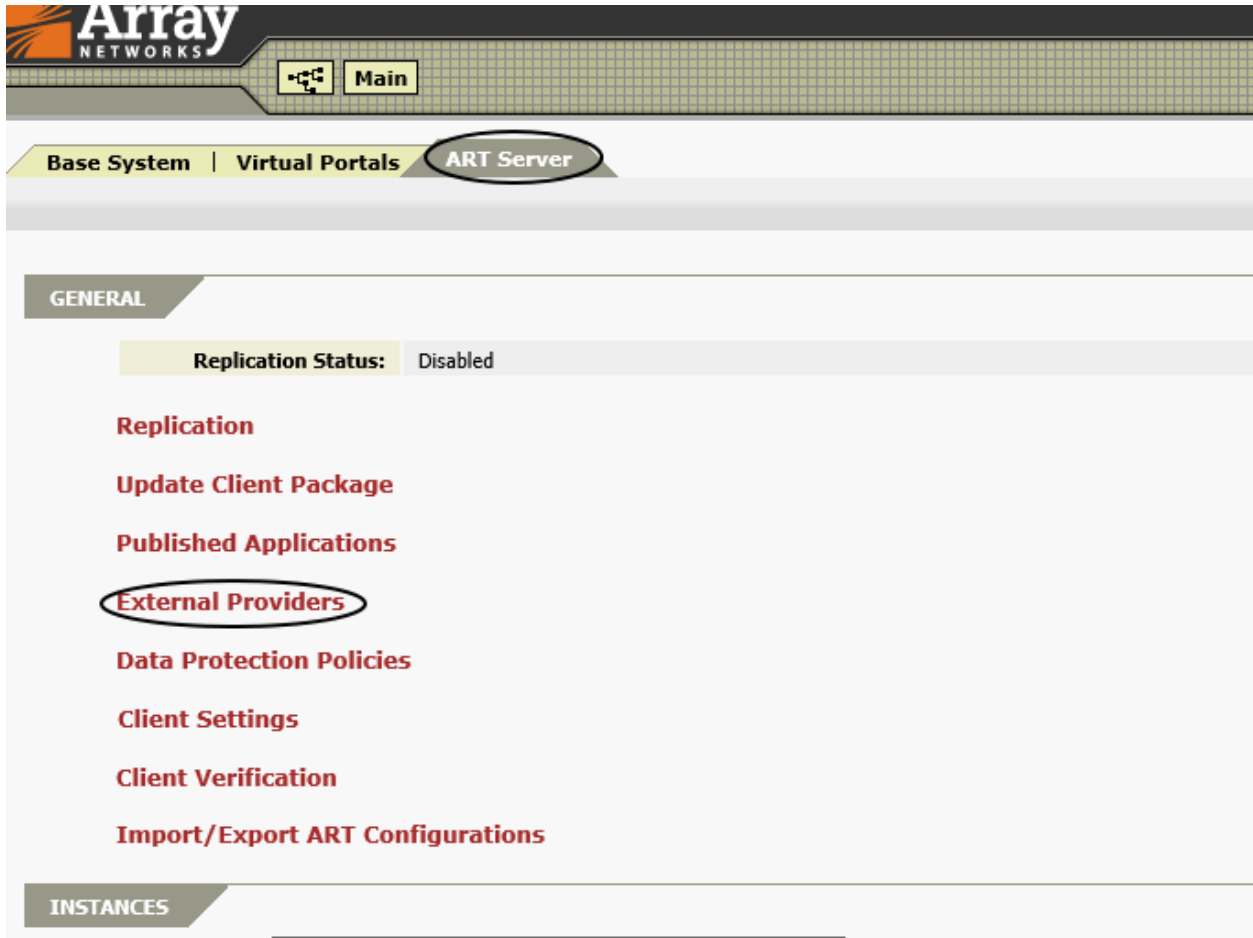
Authentication Method: LocalDB

LOCALDB ACCOUNTS

Users	
User	
viewuser01	

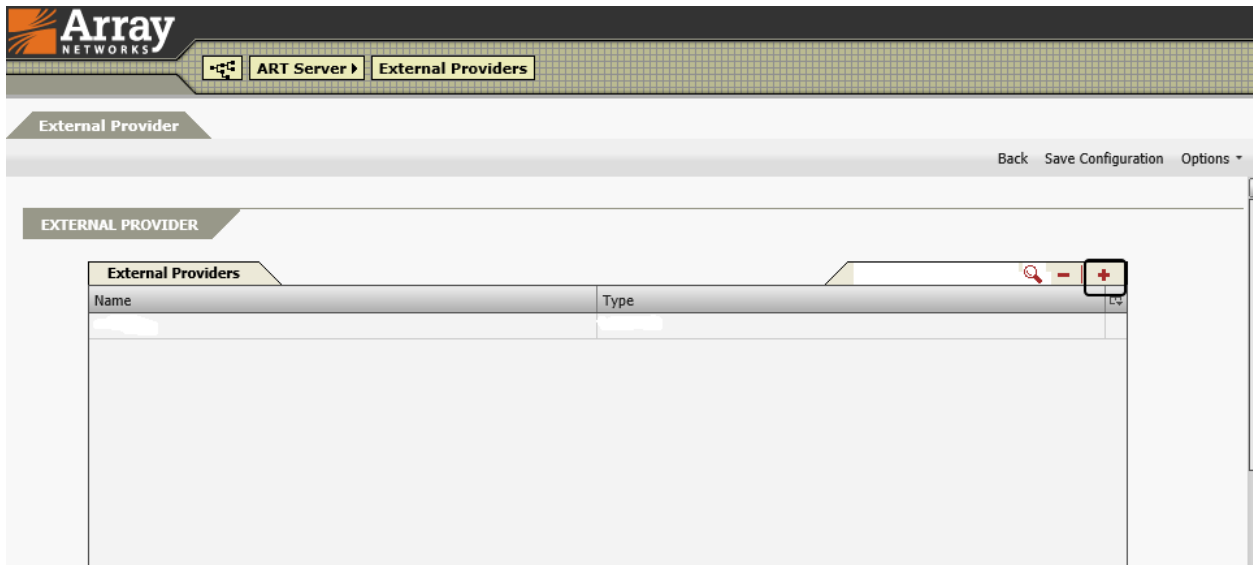
## 2.3 Configure the VMware View Connection Server

Click “External Providers.”



The screenshot shows the Array Networks management console. At the top, the Array Networks logo is visible. Below the logo, there are navigation tabs: "Main", "Base System", "Virtual Portals", and "ART Server". The "ART Server" tab is selected and circled in red. Below the navigation tabs, there is a "GENERAL" section. Under "GENERAL", there is a "Replication Status" field set to "Disabled". Below this, there is a list of links: "Replication", "Update Client Package", "Published Applications", "External Providers" (circled in red), "Data Protection Policies", "Client Settings", "Client Verification", and "Import/Export ART Configurations". At the bottom of the page, there is an "INSTANCES" section.

Click “+” to add the VMware Horizon connection server.



The screenshot shows the Array Networks management console. At the top, the Array Networks logo is visible. Below the logo, there are navigation tabs: "Main", "ART Server", and "External Providers". The "External Providers" tab is selected. Below the navigation tabs, there is a "Back Save Configuration Options" menu. Below this, there is an "EXTERNAL PROVIDER" section. Under "EXTERNAL PROVIDER", there is a table with columns "Name" and "Type". The table is currently empty. A "+" button is visible in the top right corner of the table, which is highlighted in red.

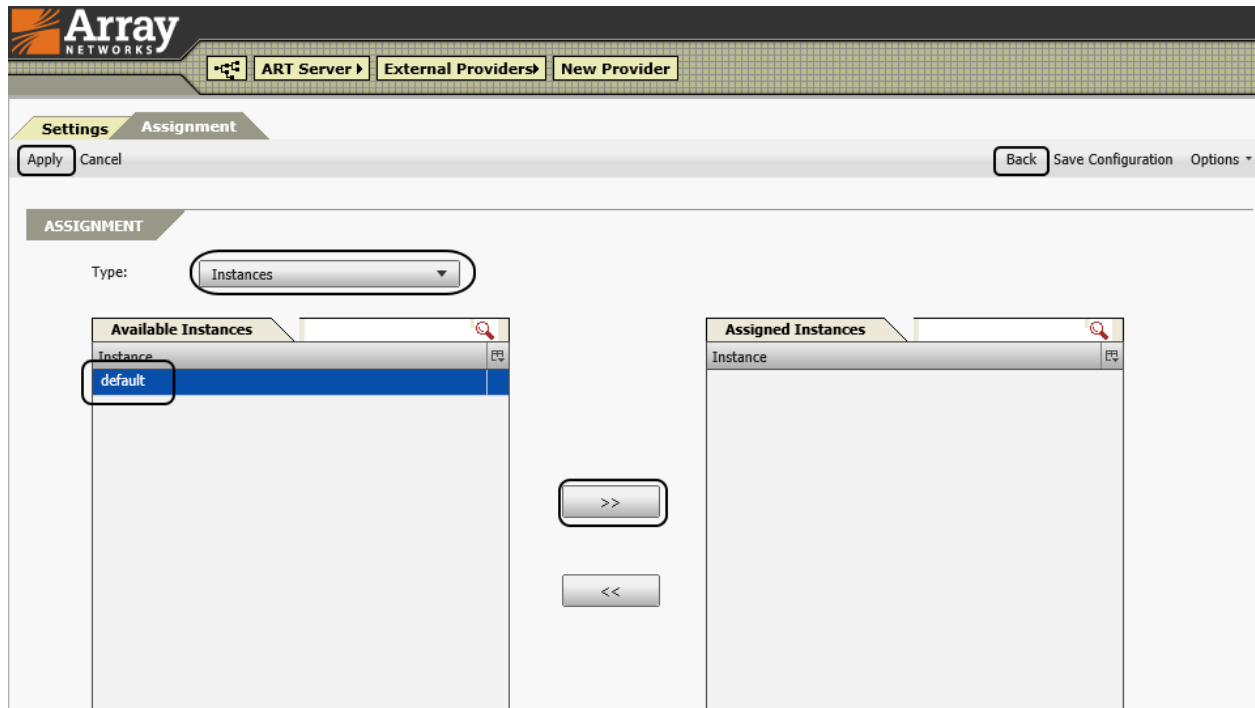
Select "VMView".

The screenshot shows the Array Networks web interface. At the top, there is a navigation bar with the Array Networks logo and three buttons: "ART Server", "External Providers", and "New Provider". Below this is a "Settings" section with a sub-tab "Assignment". In the "Assignment" section, there are "Apply" and "Cancel" buttons on the left, and "Back" and "Save Configuration" on the right. The main content area is titled "GENERAL" and contains a "Type:" label followed by three radio buttons: "VMView" (which is selected and circled in red), "XenDesktop", and "EAPI".

Input the VMware Horizon Connection server information base in your environment and click "Add", then click the **Assignment** tab.

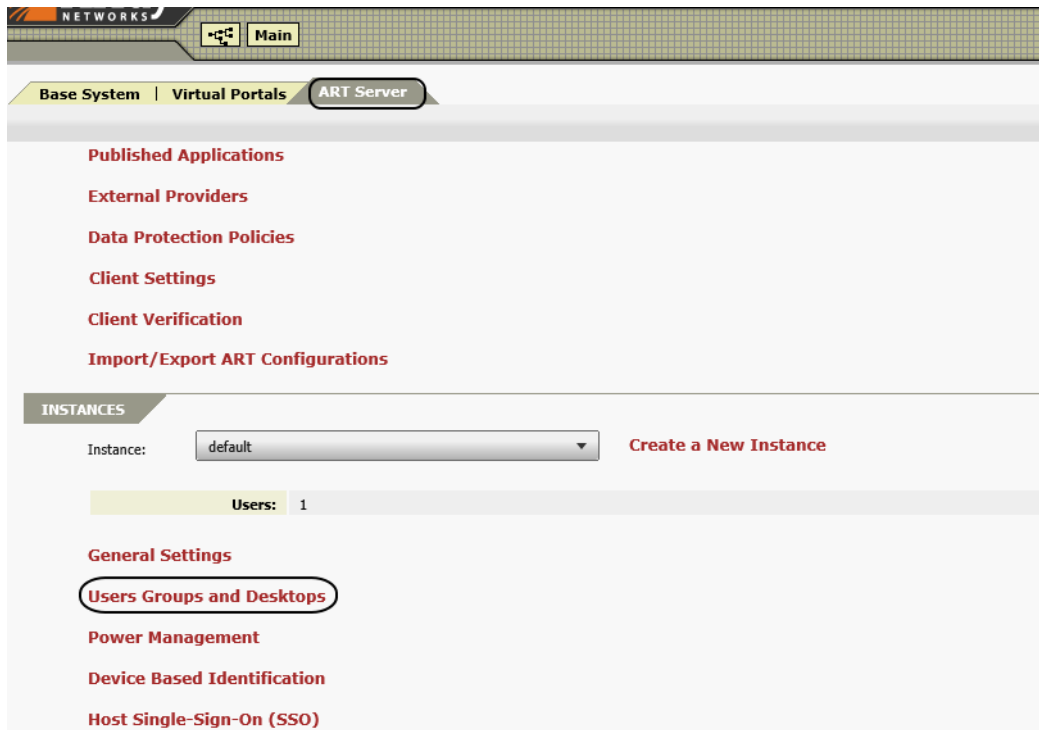
The screenshot shows the Array Networks web interface. At the top, there is a navigation bar with the Array Networks logo and three buttons: "ART Server", "External Providers", and "New Provider". Below this is a "Settings" section with a sub-tab "Assignment". In the "Assignment" section, there are "Apply" and "Cancel" buttons on the left, and "Back", "Save Configuration", and "Options" on the right. The main content area is titled "SERVER" and contains several input fields: "Name:" (VMviewConnection01), "Type:" (VMView), "Host Name or IP:" (10.1.100.44), "Port:" (443), "Domain:" (view.local), and "Timeout:" (60). To the right of these fields is a red "Add | Remove" button, which is circled in red. Below the "SERVER" section is a "Servers" table with columns for "IP", "Port", "Domain", and "Timeout".

Select the Assignment type as “Instances” and select “default” and click “>>” .

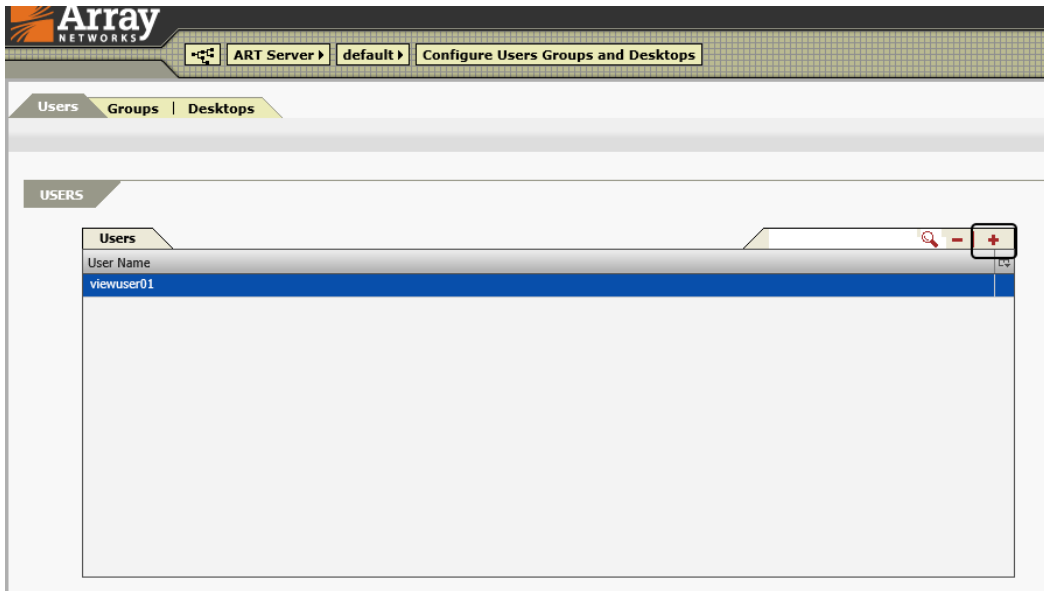


## 2.4 Configure the ART Server

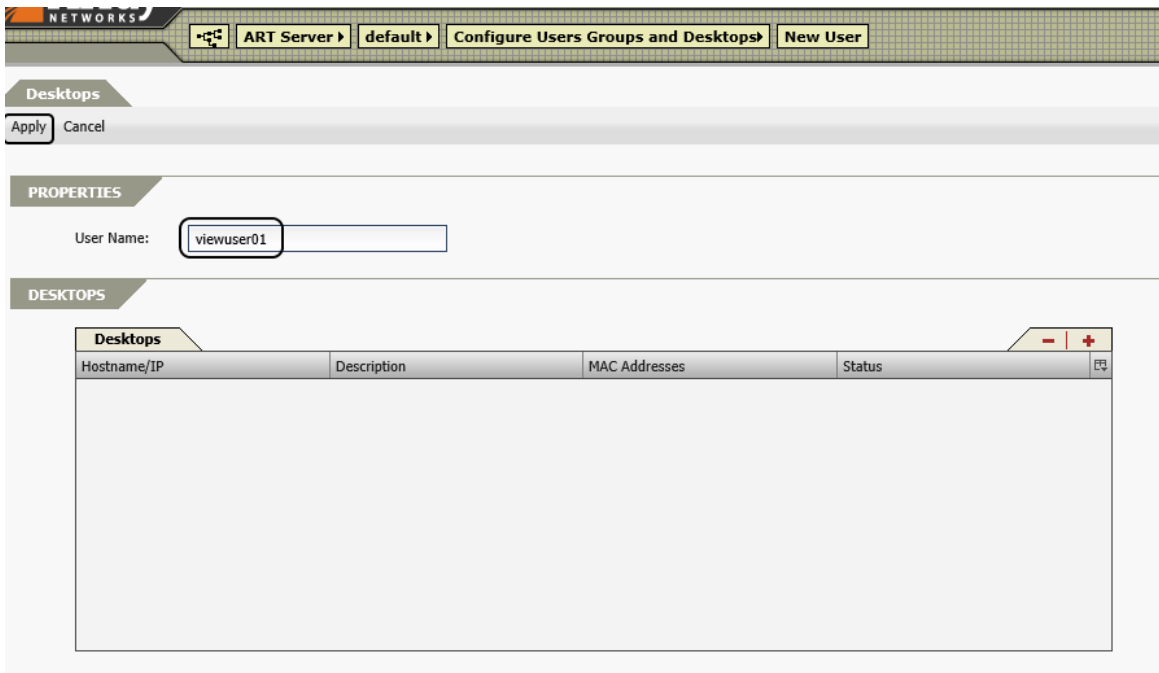
Click “Users Groups and Desktops” in the ART (Array Registration Technology) Server tab.



Click “+” to add a user.

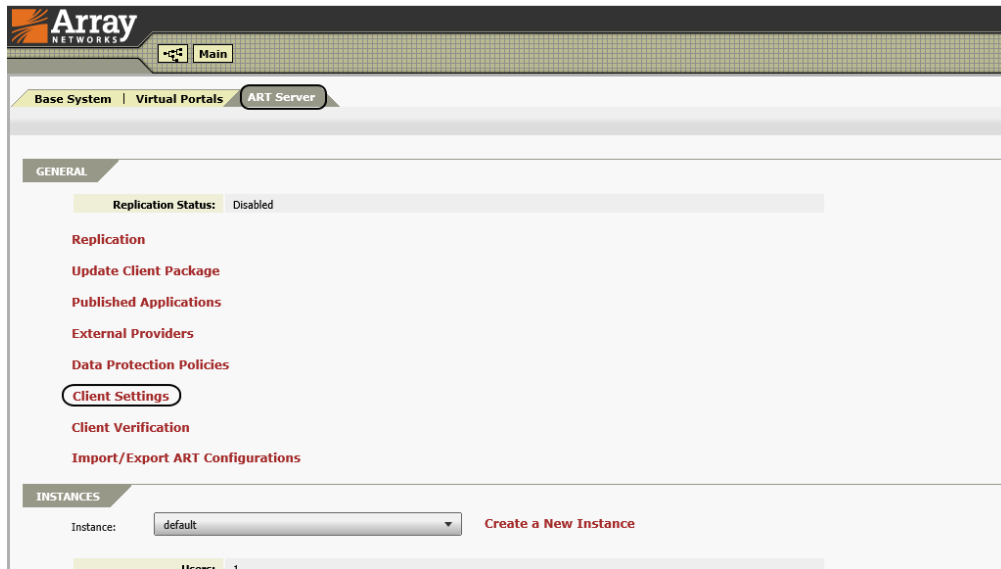


Input the User Name then click "Apply".

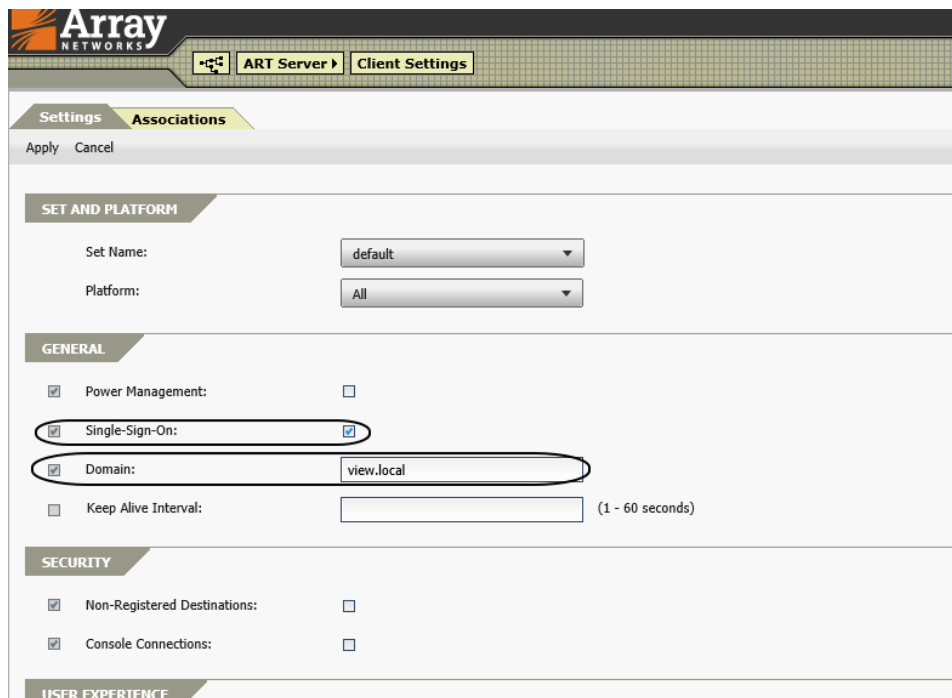


## 2.5 Configure Single Sign-On

To fully integrate with Active Directory (AD), we can enable the Single Sign-On capability in the AG Series. To do this, click "**Client Settings**" in the ART Server tab.

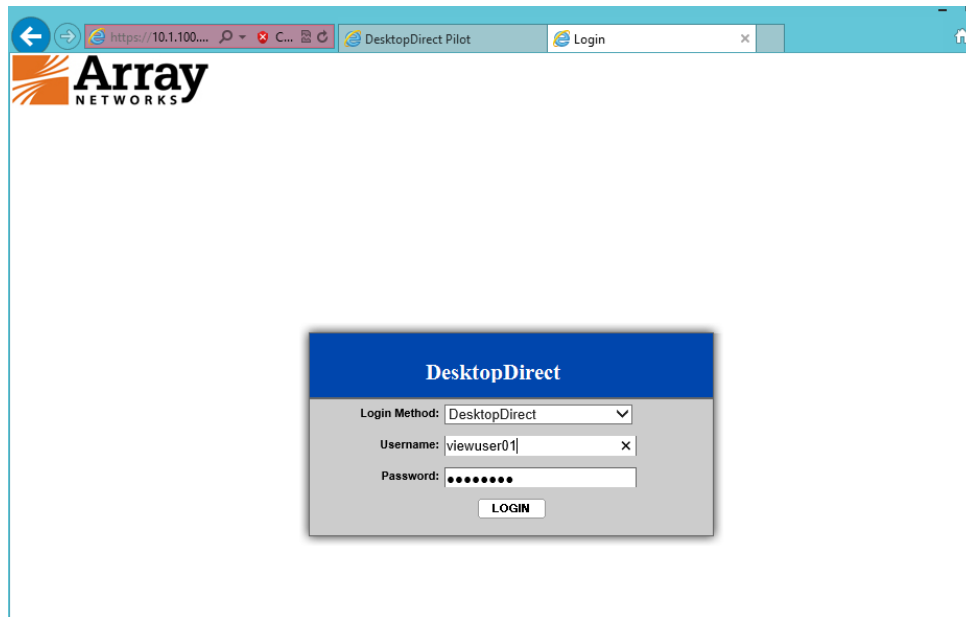


Select both **Single-Sign-On** and **Domain**, then select the domain information.

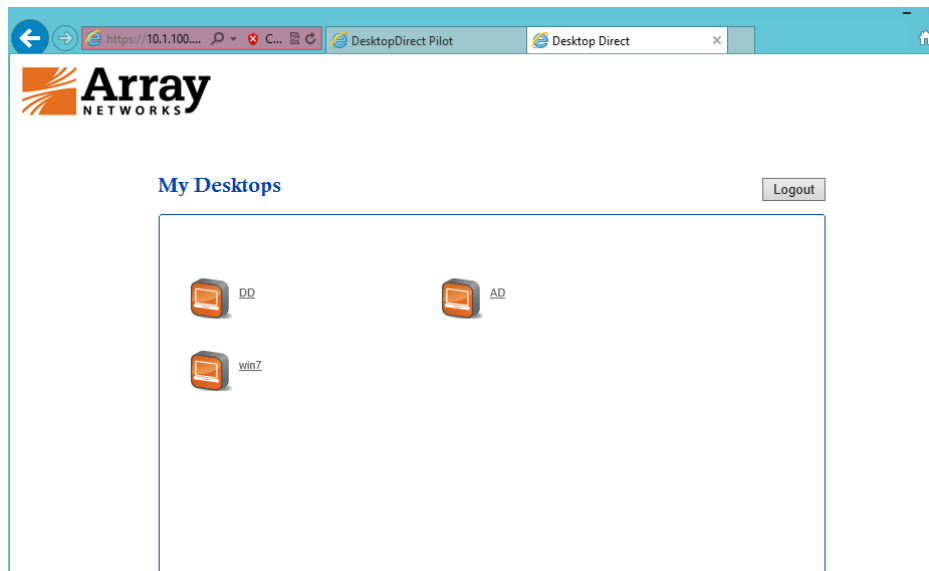


### 3 Validate the Service

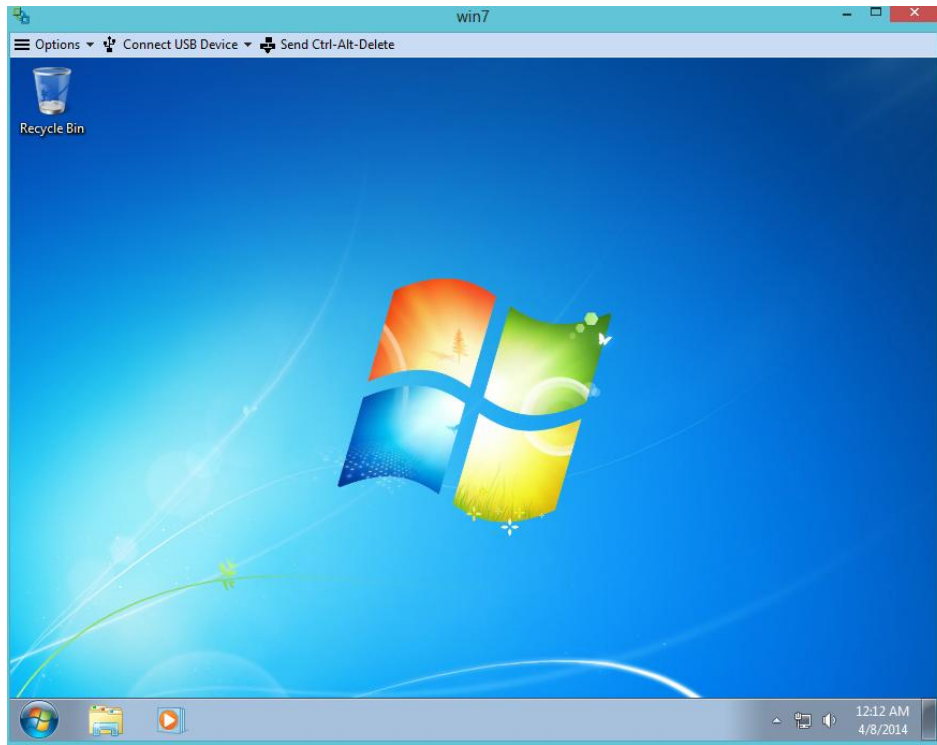
Open Internet Explorer and navigate to the site's fully qualified domain name (FQDN). Input the account credentials.



Depending on the VMware Horizon administrator's settings, the screen will show the desktop resource available for your use. Click on the desktop you would like to access.



The desktop is now available to use.





## About Array Networks

Array Networks is a global leader in application delivery networking with over 5000 worldwide customer deployments. Powered by award-winning SpeedCore software, Array application delivery, WAN optimization and secure access solutions are recognized by leading enterprise, service provider and public sector organizations for unmatched performance and total value of ownership. Array is headquartered in Silicon Valley, is backed by over 300 employees worldwide and is a profitable company with strong investors, management and revenue growth. Poised to capitalize on explosive growth in the areas of mobile and cloud computing, analysts and thought leaders including Deloitte, IDC and Frost & Sullivan have recognized Array Networks for its technical innovation, operational excellence and market opportunity.



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