Deployment Guide
Apr. 2016 rev. a

Deploying AG Series SSL VPN and DesktopDirect with Citrix XenApp 6.x

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1 Introduction

Array Networks' 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

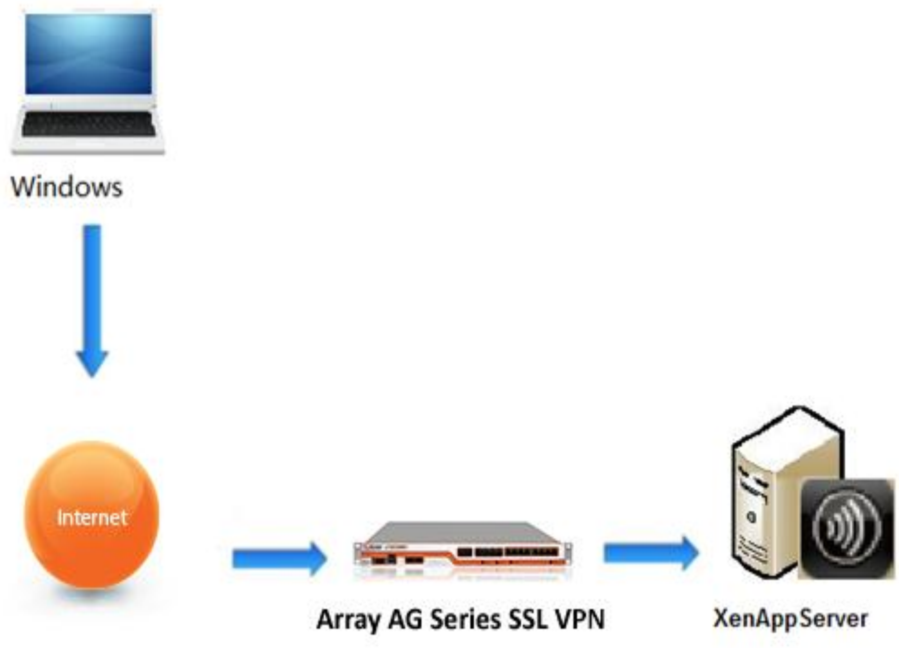
Remote desktop access allows employees to use their work PCs and laptops from any location as if they were in the office.

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 at 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 Configurations for the Array Networks AG Series

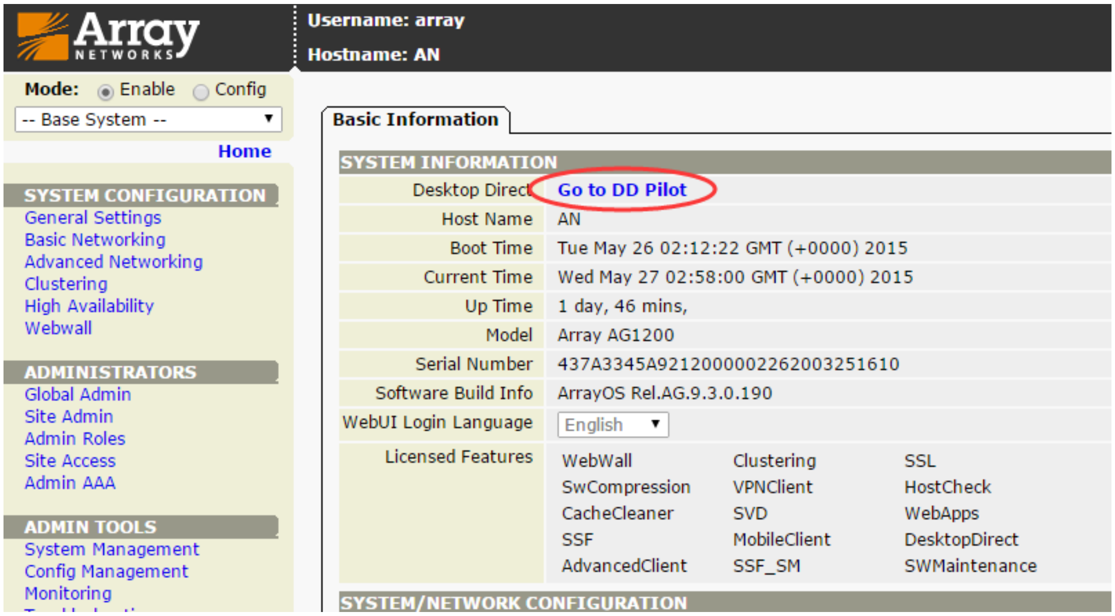
This document is written based upon this basic configuration:



2 Configuration Steps for the AG Series

2.1 Create the DesktopDirect Site

1. Click "**Go to DD Pilot**"

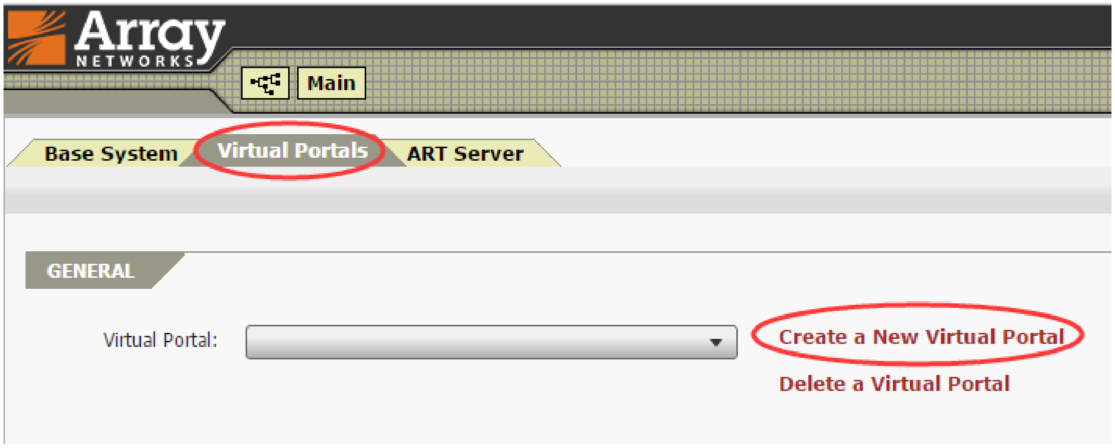


Username: array
Hostname: AN

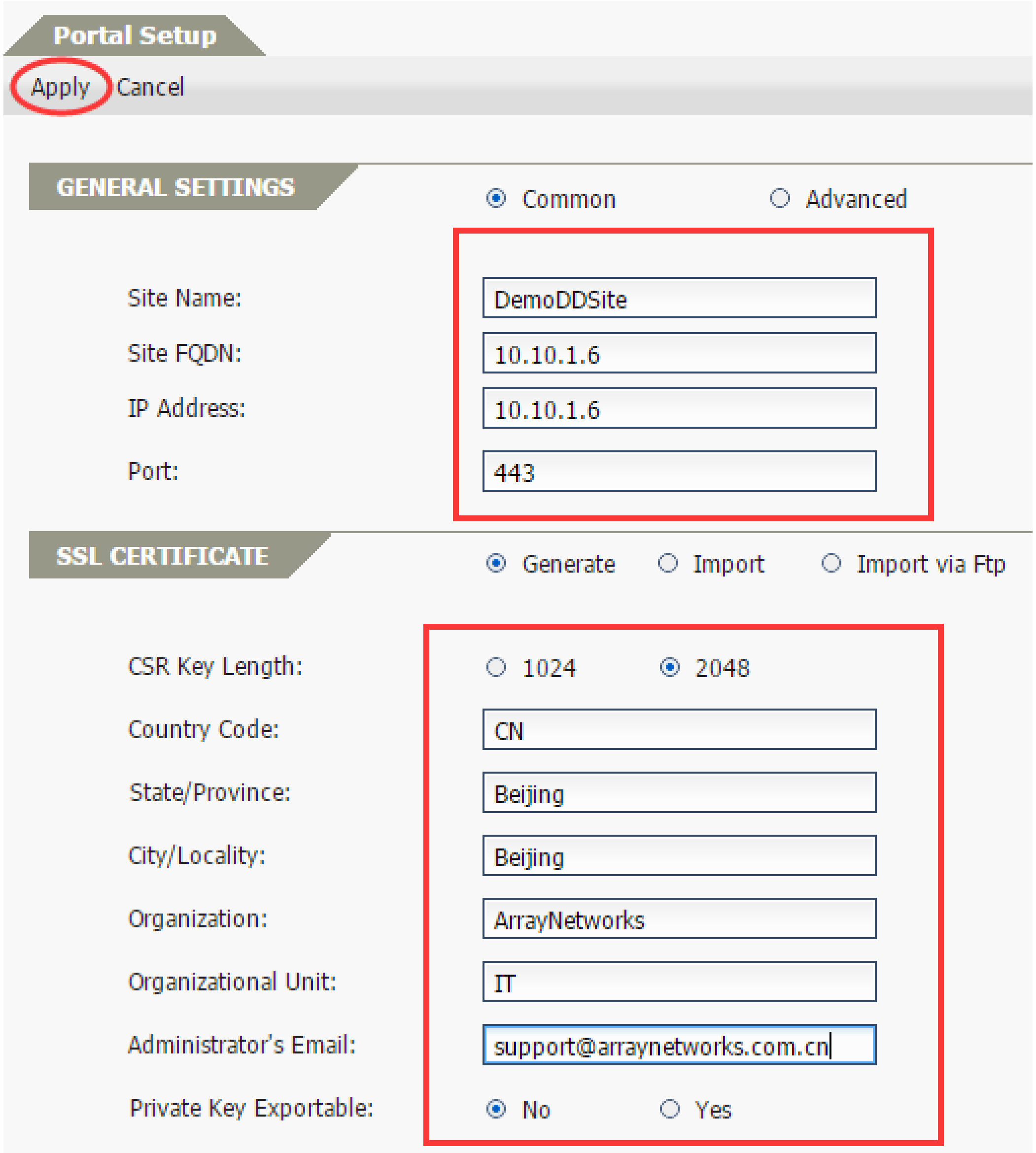
SYSTEM INFORMATION

Desktop Direct	Go to DD Pilot
Host Name	AN
Boot Time	Tue May 26 02:12:22 GMT (+0000) 2015
Current Time	Wed May 27 02:58:00 GMT (+0000) 2015
Up Time	1 day, 46 mins,
Model	Array AG1200
Serial Number	437A3345A9212000002262003251610
Software Build Info	ArrayOS Rel.AG.9.3.0.190
WebUI Login Language	English
Licensed Features	WebWall SwCompression CacheCleaner SSF AdvancedClient Clustering VPNClient SVD MobileClient SSF_SM SSL HostCheck WebApps DesktopDirect SWMaintenance

2. Click "**Create a New Virtual Portal**" in the Virtual Portals tab



3. Input the portal information and SSL certificate information based on your environment.



GENERAL SETTINGS ● Common ○ Advanced

Site Name: DemoDDSite

Site FQDN: 10.10.1.6

IP Address: 10.10.1.6

Port: 443

SSL CERTIFICATE ● Generate ○ Import ○ Import via Ftp

CSR Key Length: ○ 1024 ● 2048

Country Code: CN

State/Province: Beijing

City/Locality: Beijing

Organization: ArrayNetworks

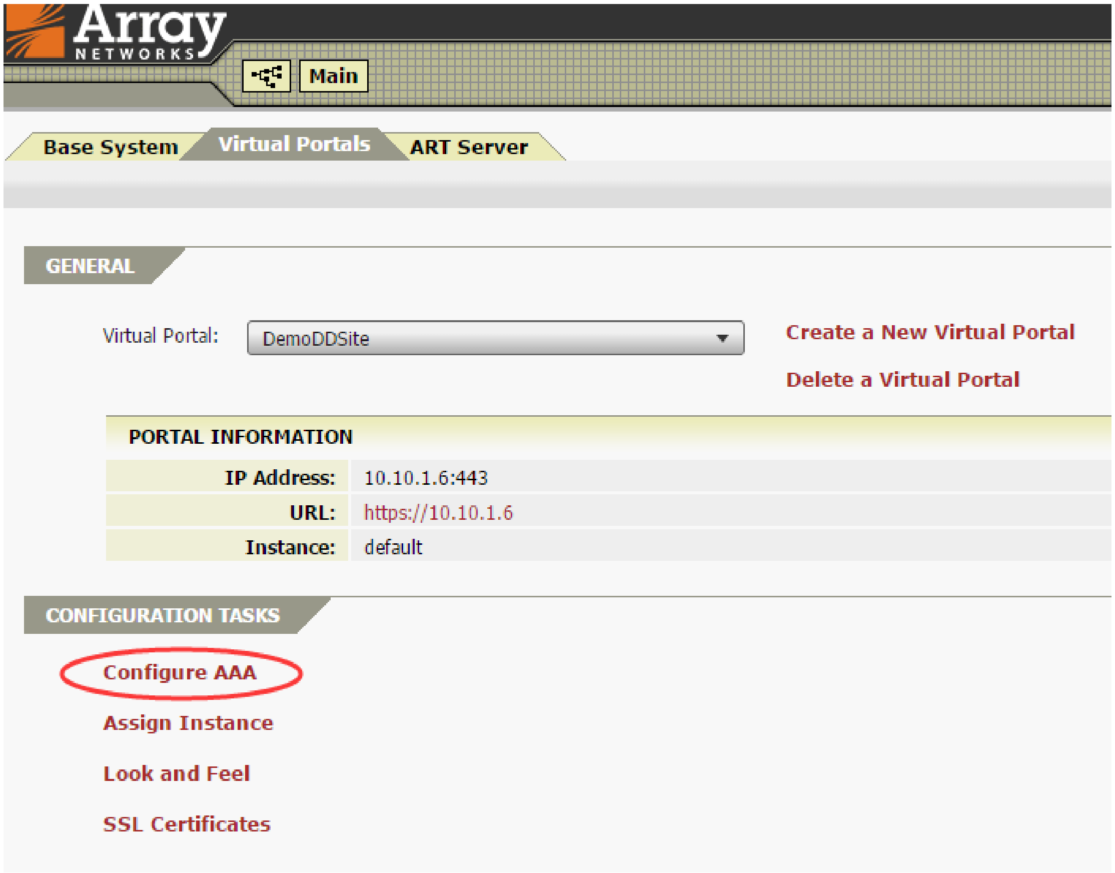
Organizational Unit: IT

Administrator's Email: support@arraynetworks.com.cn

Private Key Exportable: ● No ○ Yes

2.2 Configure AAA

1. Click "**Configure AAA**".

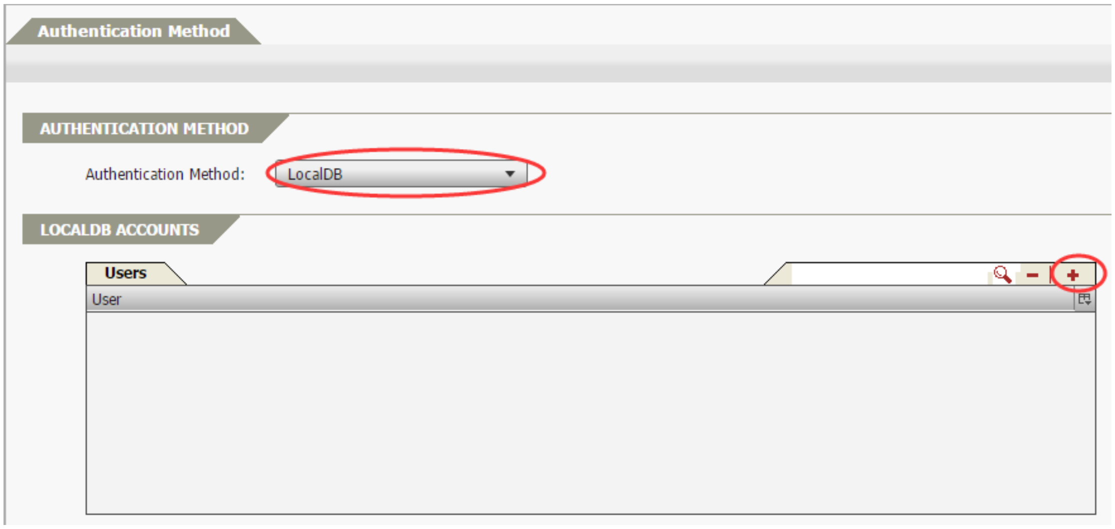


Virtual Portal: DemoDDSite

PORTAL INFORMATION

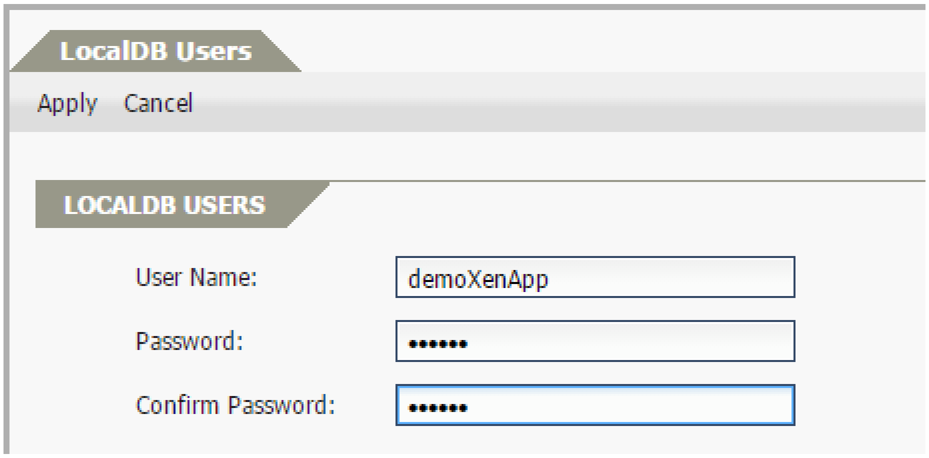
IP Address:	10.10.1.6:443
URL:	https://10.10.1.6
Instance:	default

2. Select the authentication method "**LocalDB**" and click "**+**".



Authentication Method: LocalDB

3. Input the user account information.

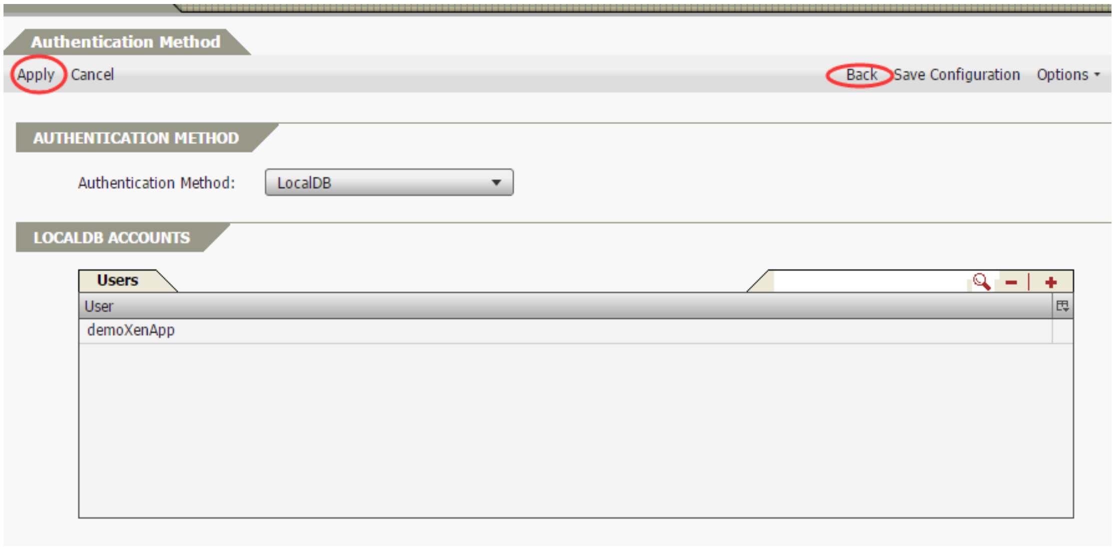


User Name: demoXenApp

Password: ••••••

Confirm Password: ••••••

4. Click "**Apply**" then "**Back**".

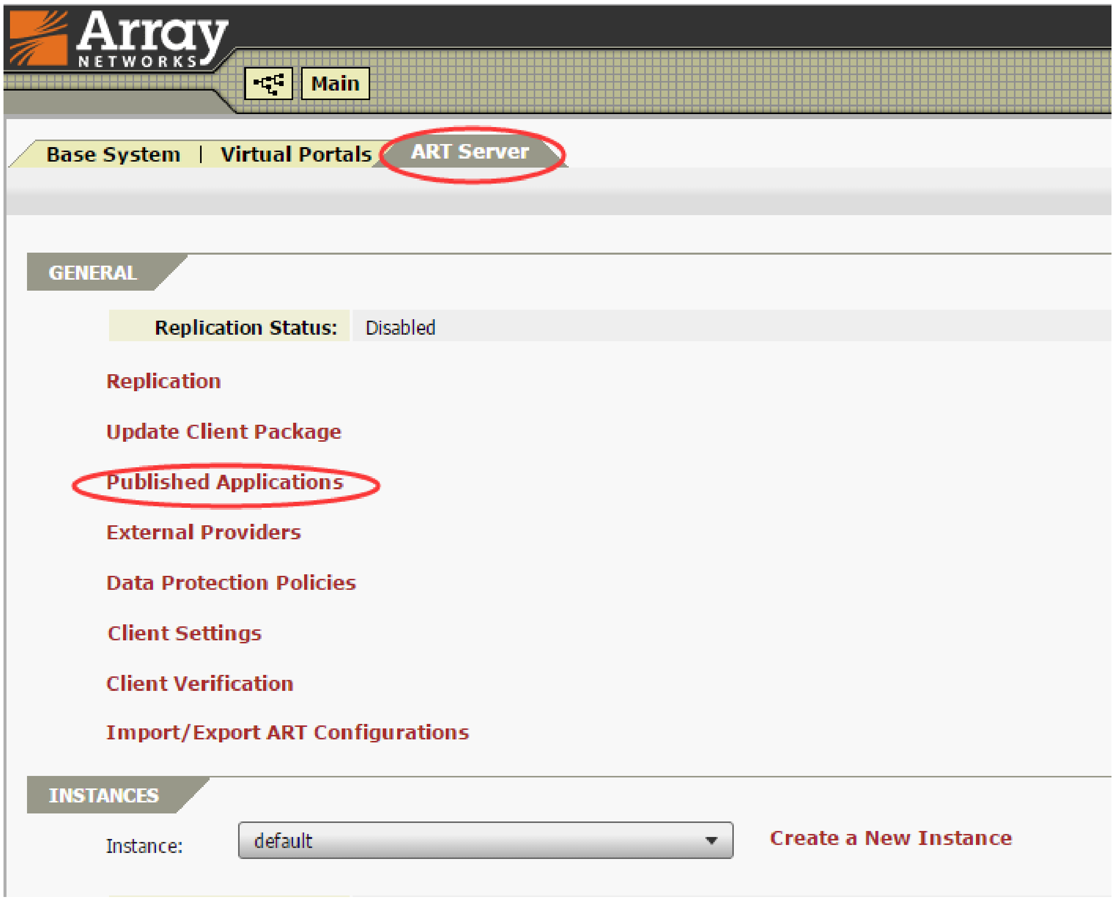


Authentication Method: LocalDB

User
demoXenApp

2.3 Configure the XenApp Server

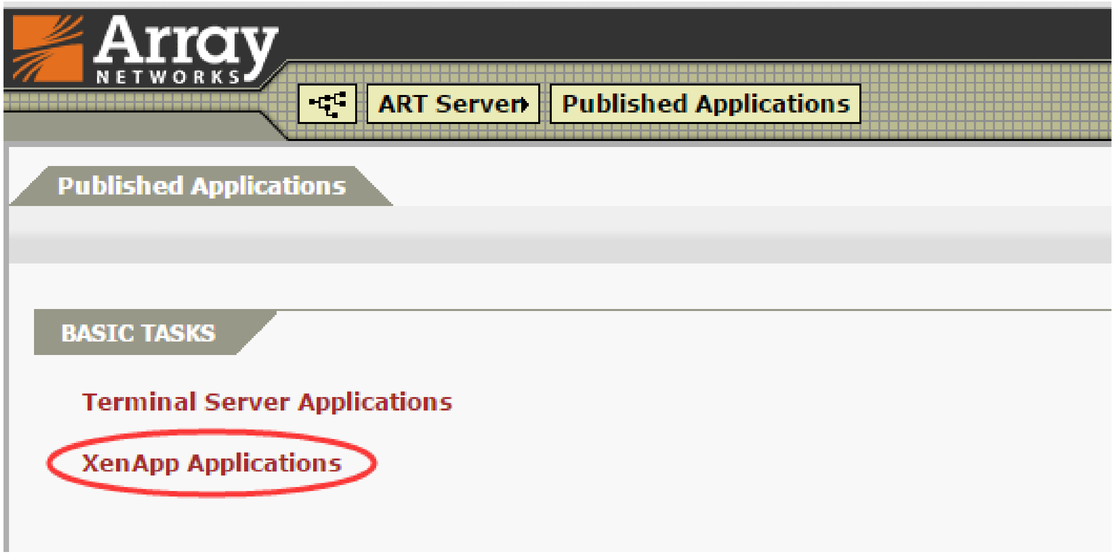
1. Click "**Published Applications**" in the ART Server tab



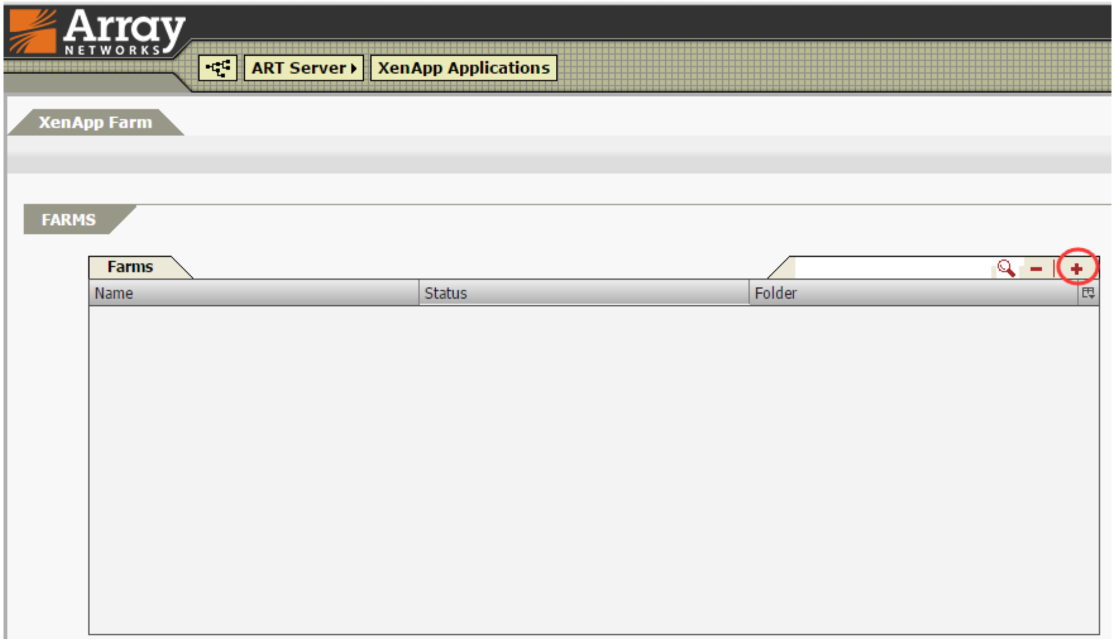
Replication Status: Disabled

Instance: default

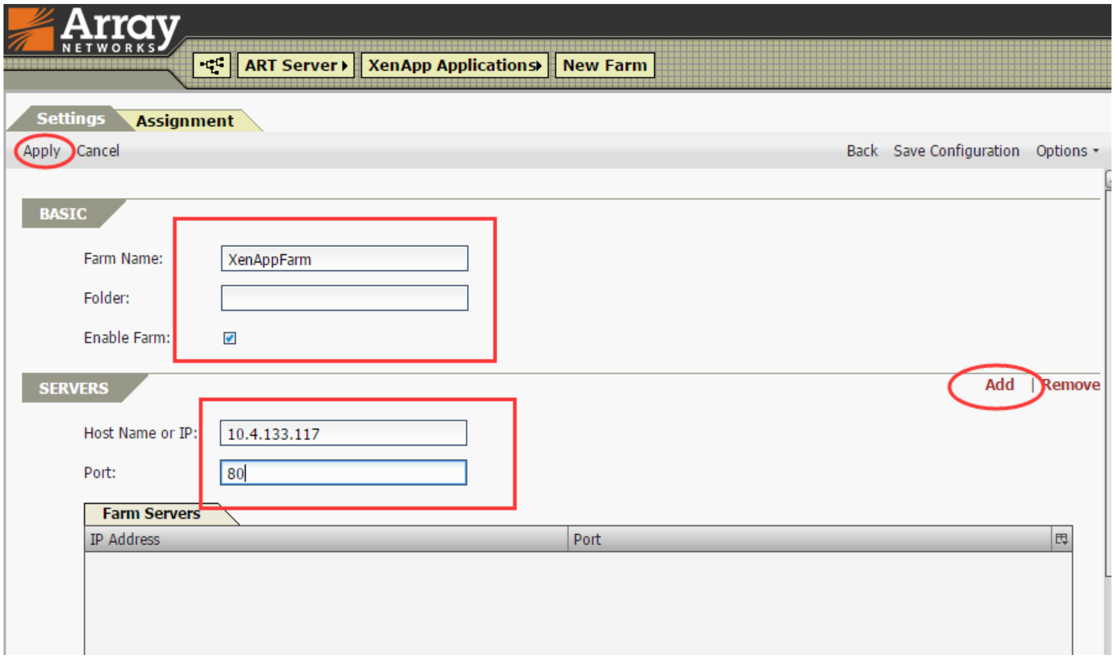
2. Click "**XenApp Applications**".



3. Click "**+**" to add a XenApp farm.



4. Input the XenApp server information based on your environment, then click "**Add**" then "**Apply**".



Farm Name: XenAppFarm

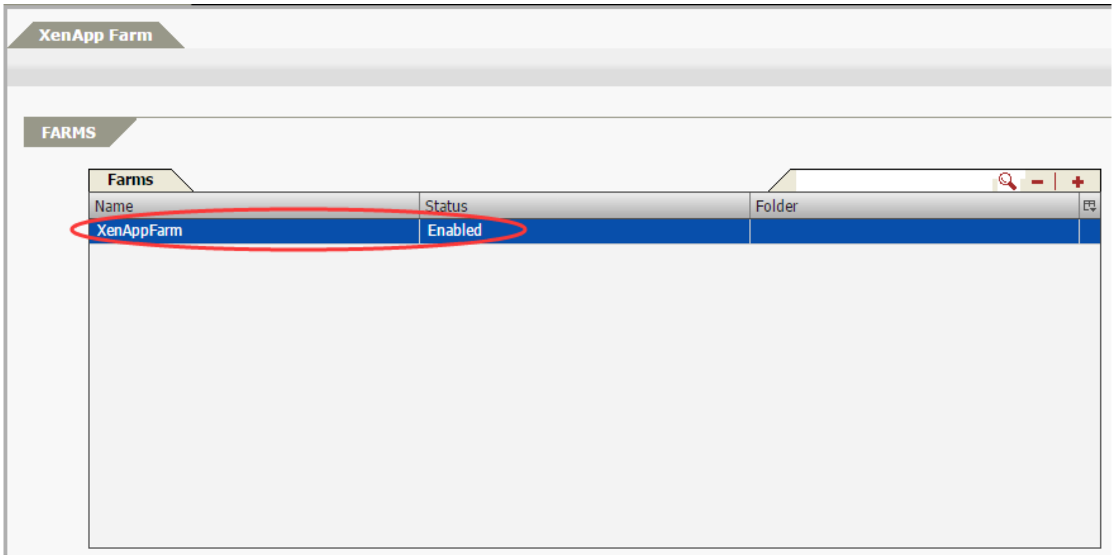
Folder:

Enable Farm: ☑

Host Name or IP: 10.4.133.117

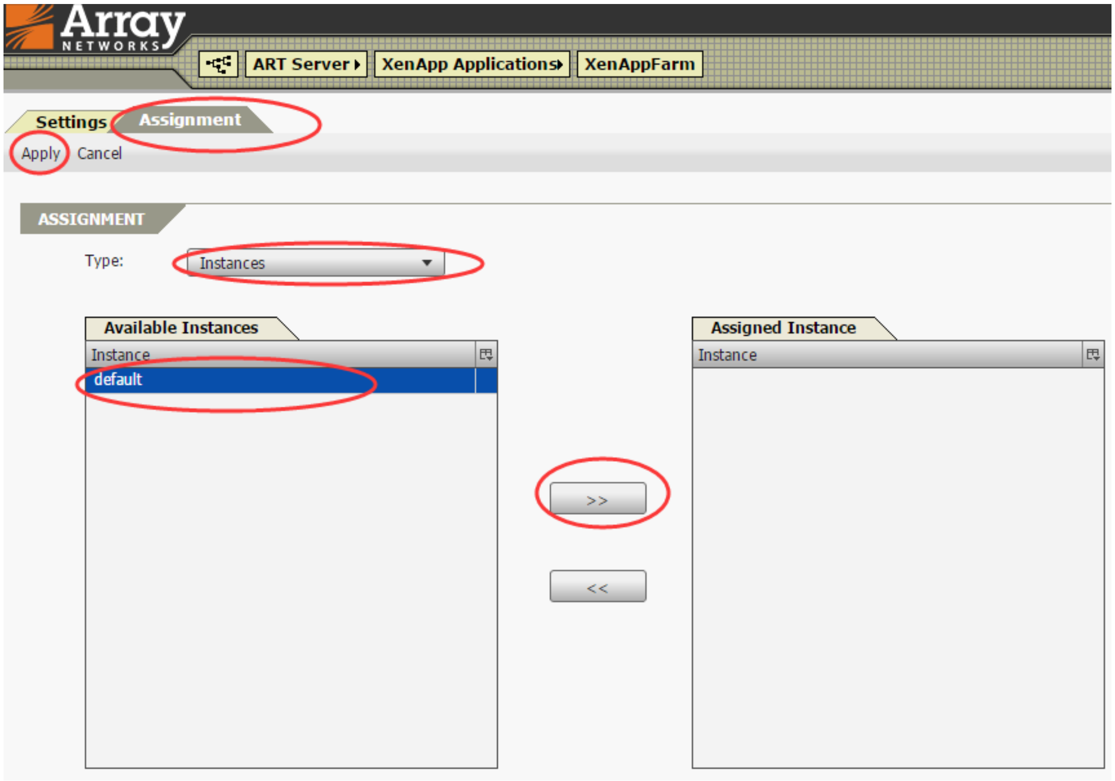
Port: 80

5. Double click the XenApp farm item.



Name	Status	Folder
XenAppFarm	Enabled	

6. Select the Assignment type as “**Instances**” and select “default”, then click “**>>**”.

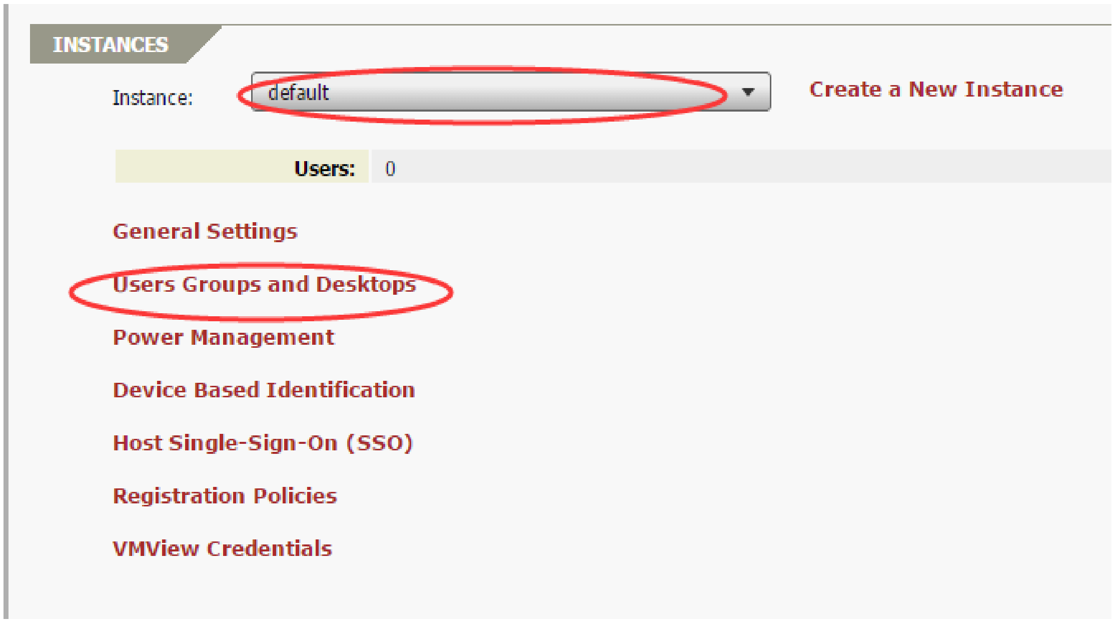


Type: Instances

Instance
default

2.4 Configure the ART Server

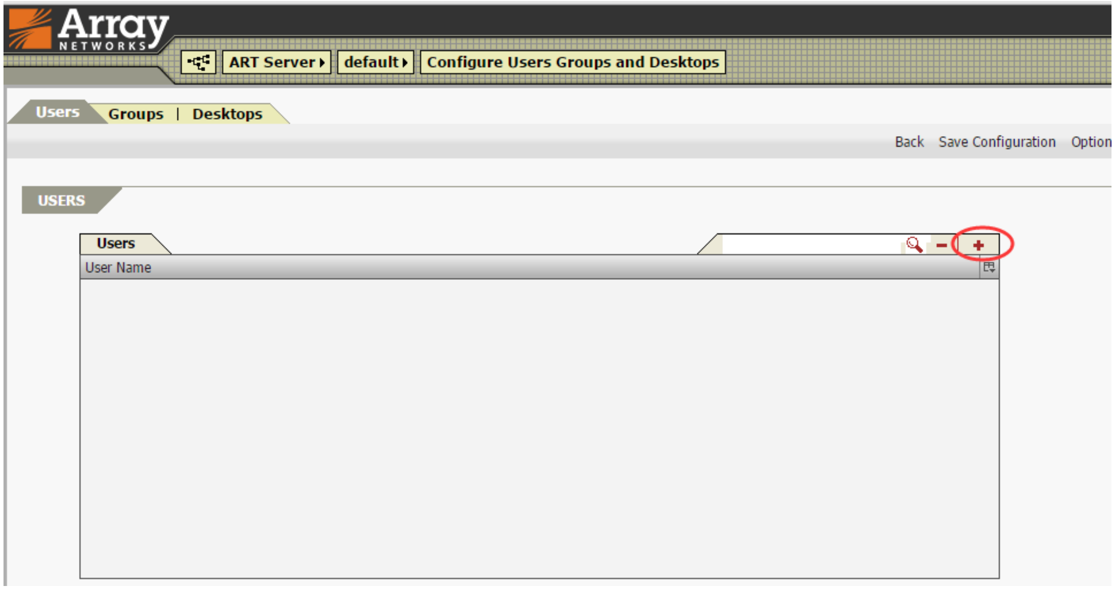
1. Click “**Users Groups and Desktops**” in the ART (Array Registration Technology) Server tab.



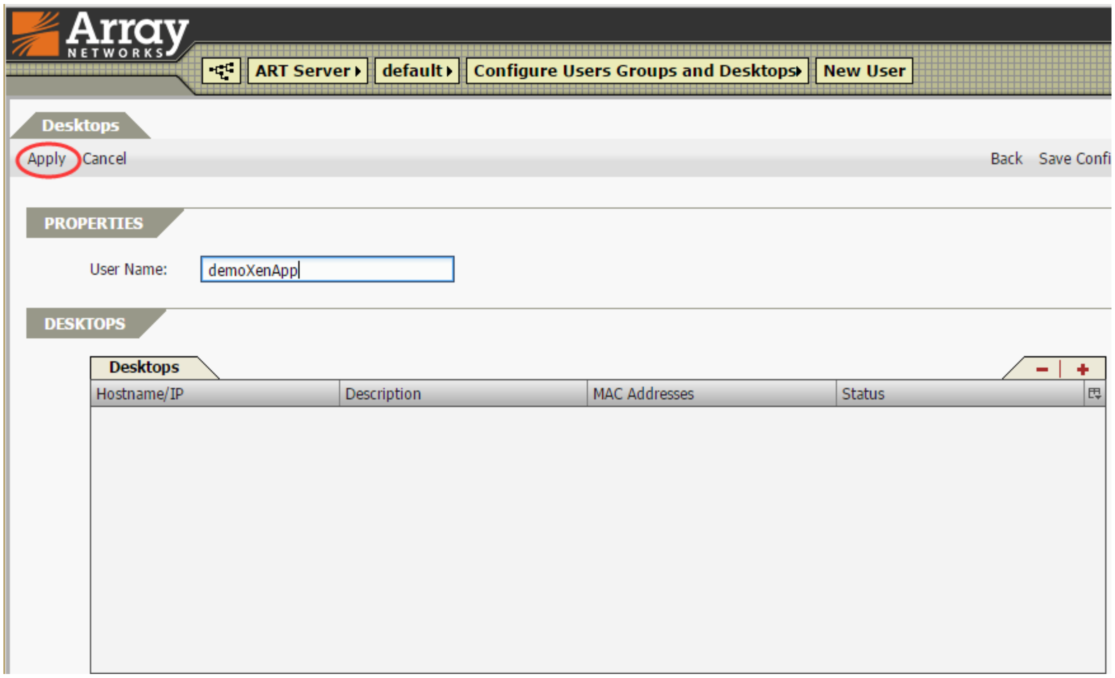
Instance: default

Users: 0

2. Click "**+**" to add a user.



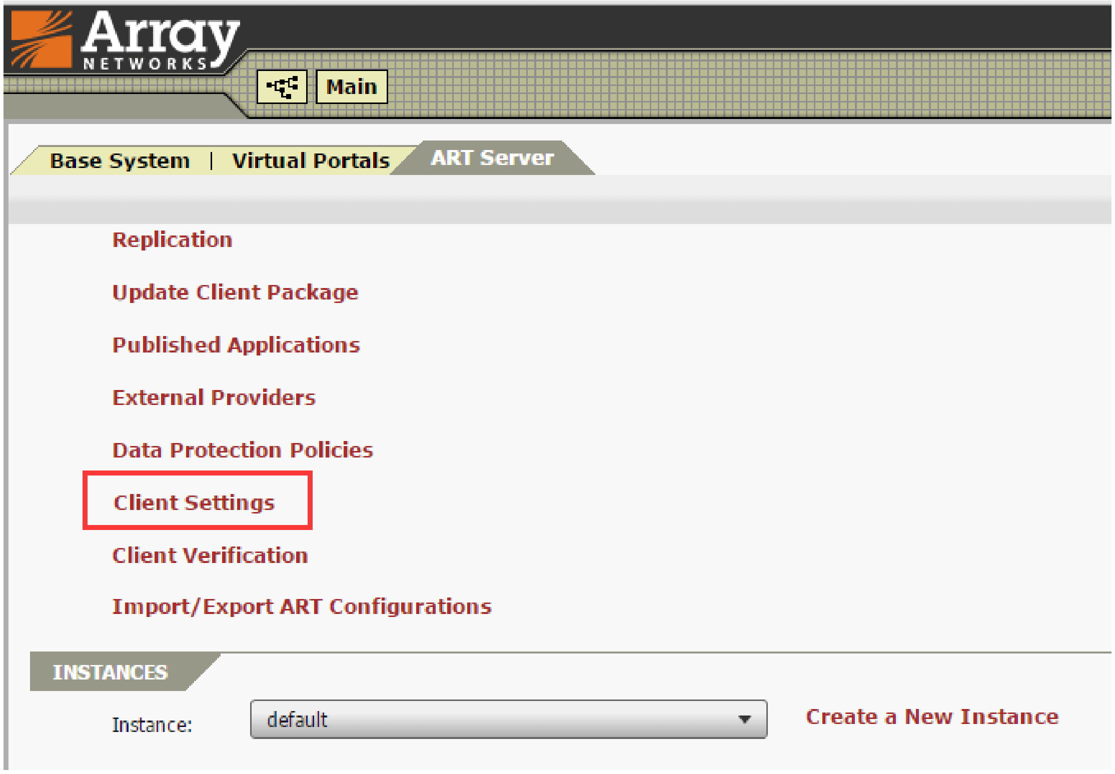
3. Input the username and then click "**Apply**".



User Name: demoXenApp

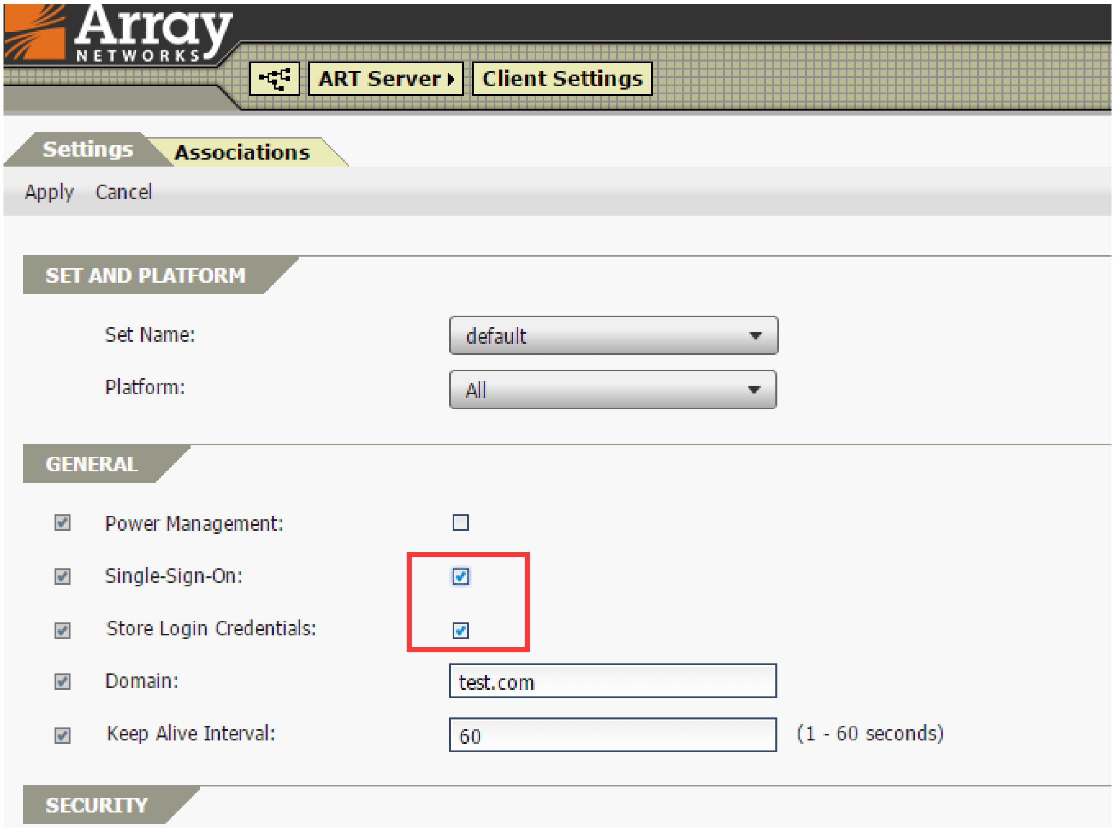
2.5 Configure Single Sign-On

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



Instance: default

1. Select both Single-Sign-On and Domain, then select the domain information, and input the domain based on the customer's environment.



SET AND PLATFORM

Set Name: default

Platform: All

GENERAL

☑ Power Management: □

☑ Single-Sign-On: ☑

☑ Store Login Credentials: ☑

☑ Domain: test.com

☑ Keep Alive Interval: 60 (1 - 60 seconds)

SECURITY

Note:

When you login to the DesktopDirect portal, the DesktopDirect portal will try to authenticate to the XenApp server with the following credentials:

domain: Domain in the client setting

username: login username

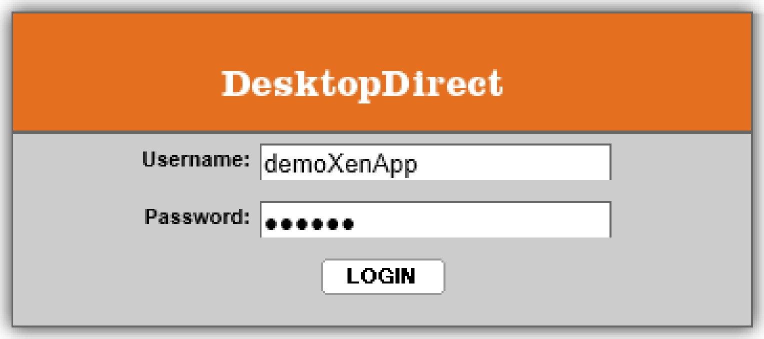
password: login password

If the credentials are not correct for the XenApp server, it will prompt a dialog and allow you to input other credentials manually.

3. Validate the Service

Note: You will need to install the Citrix Receiver on the client PC first.

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

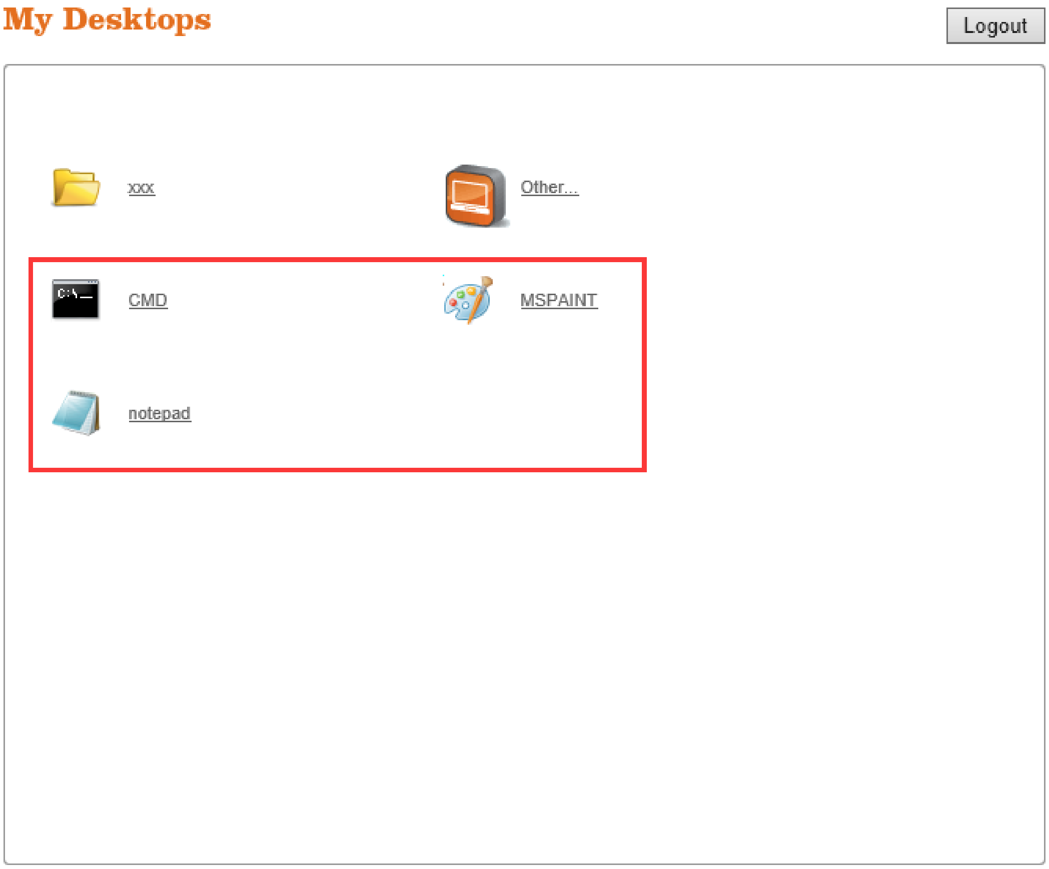


DesktopDirect

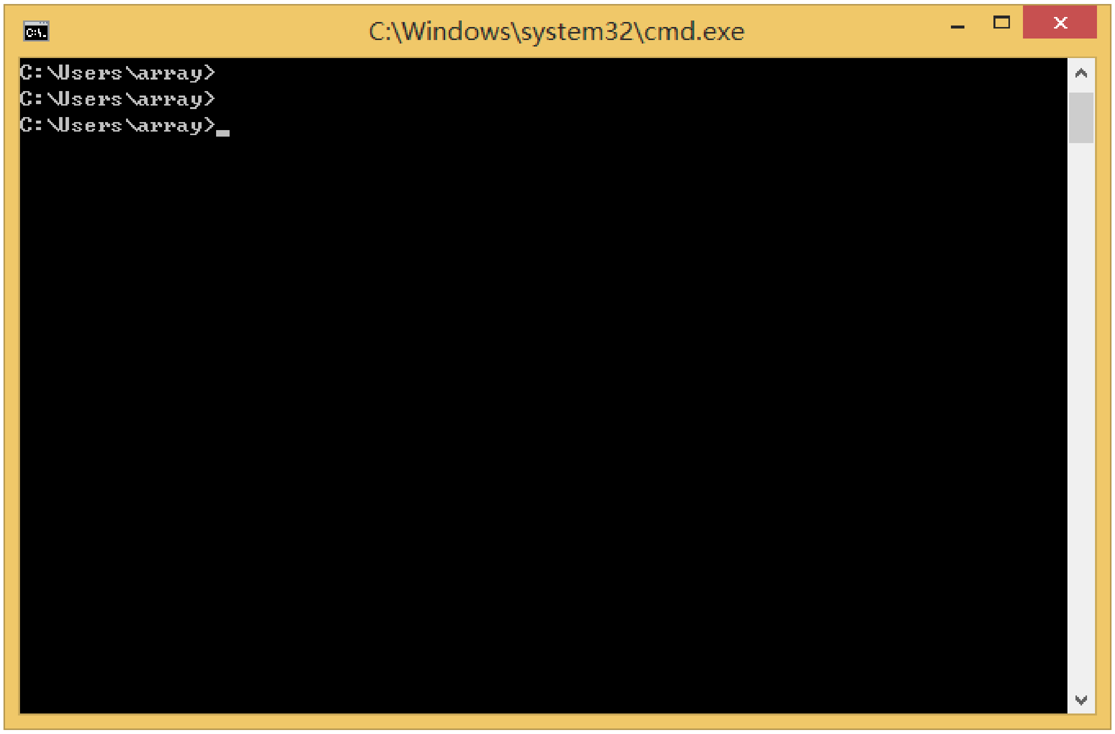
Username: demoXenApp

Password: ●●●●●●

Depending on the XenApp administrator’s settings, the screen will show the desktop resources available for your use. Click on the XenApp icon you would like to access. In this case, we clicked on CMD.



The application is available to use.



```
C:\Users\array>
C:\Users\array>
C:\Users\array>_
```

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 2500 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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