

Citrix NetScaler Technical Training

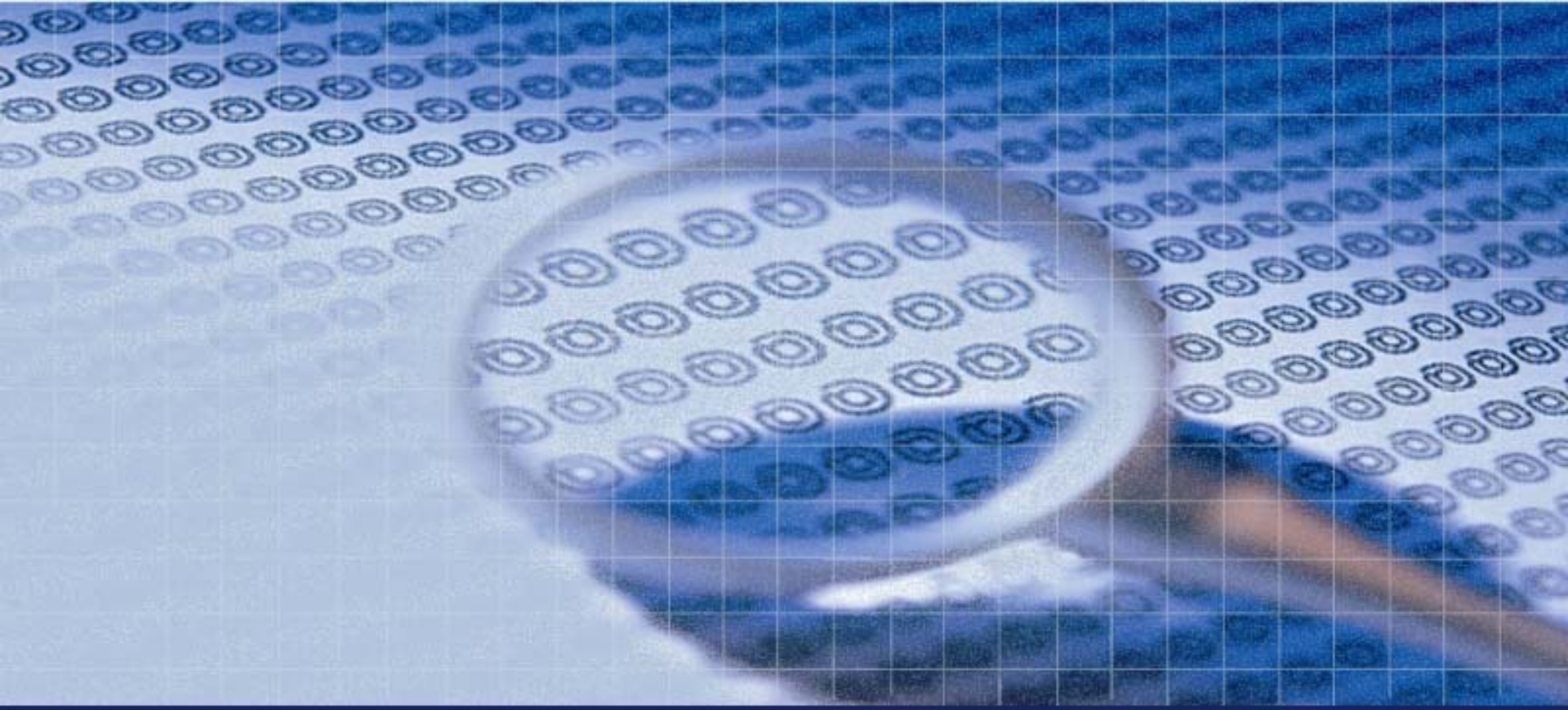
Citrix Gateway

敦陽科技

課程大綱



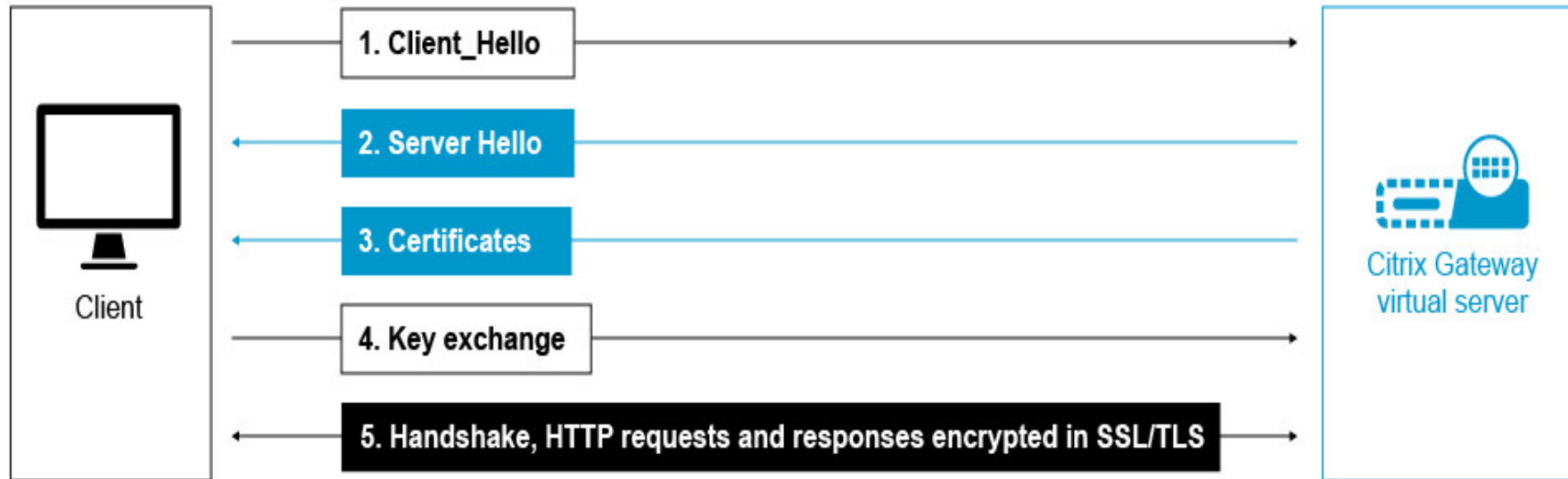
- Citrix Gateway與Storefront運作流程
- Citrix Gateway Inergate
- Troubleshooting



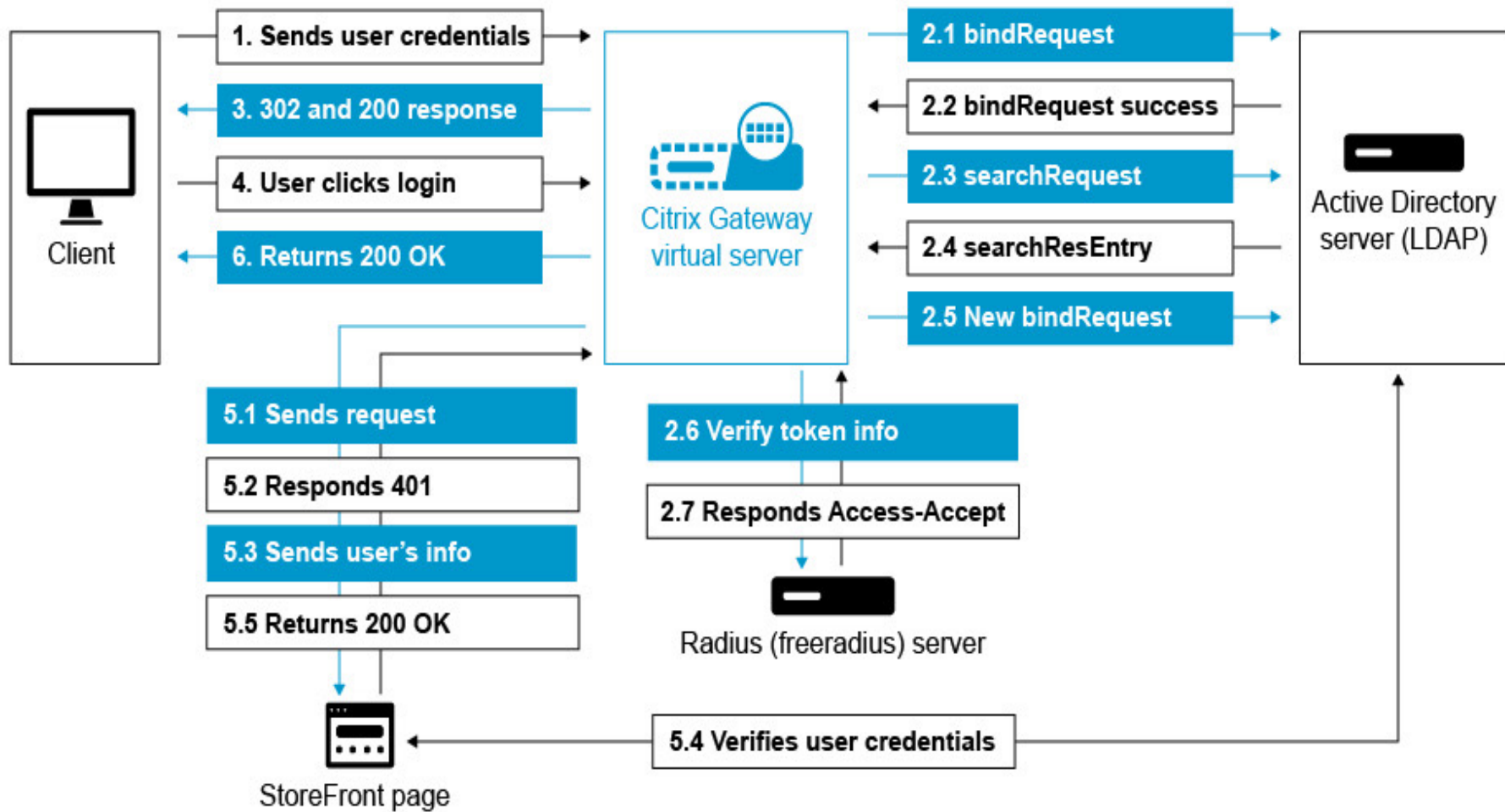
Citrix Gateway與Storefront運作流程



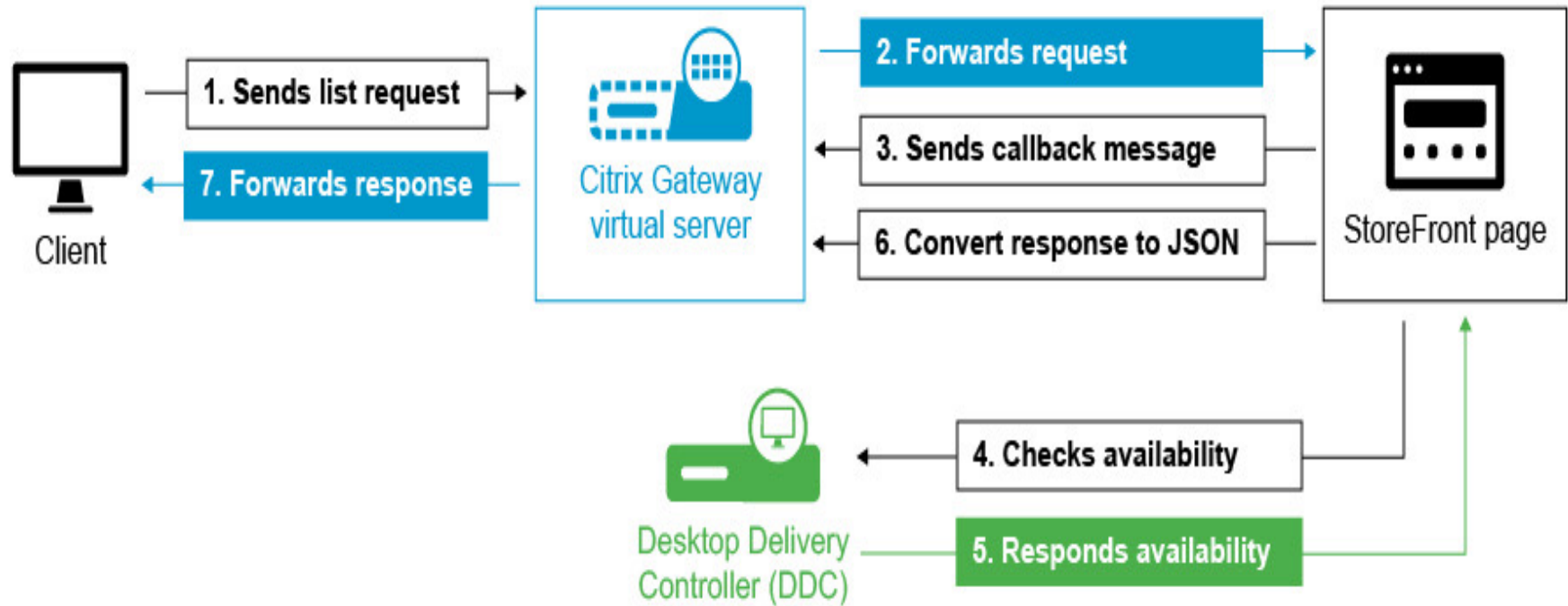
SSL Connection



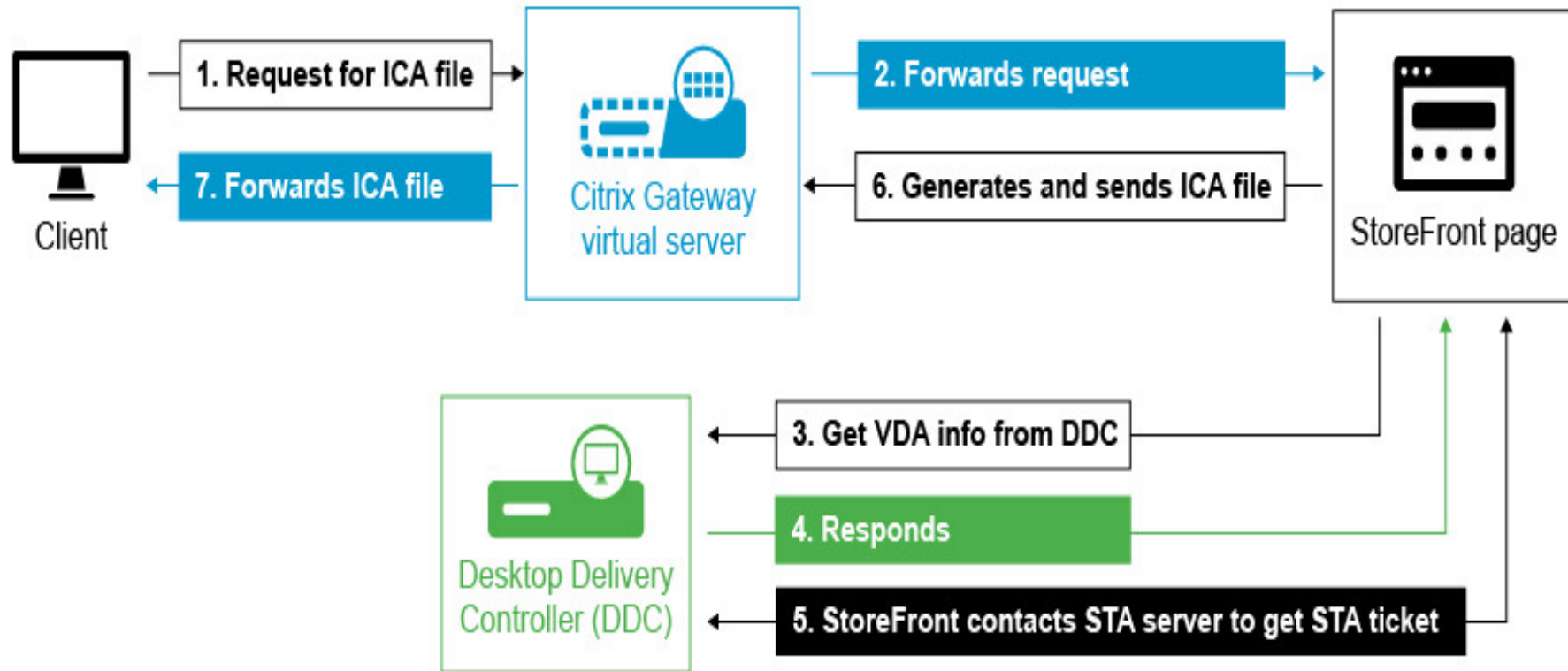
Citrix Gateway Authentication



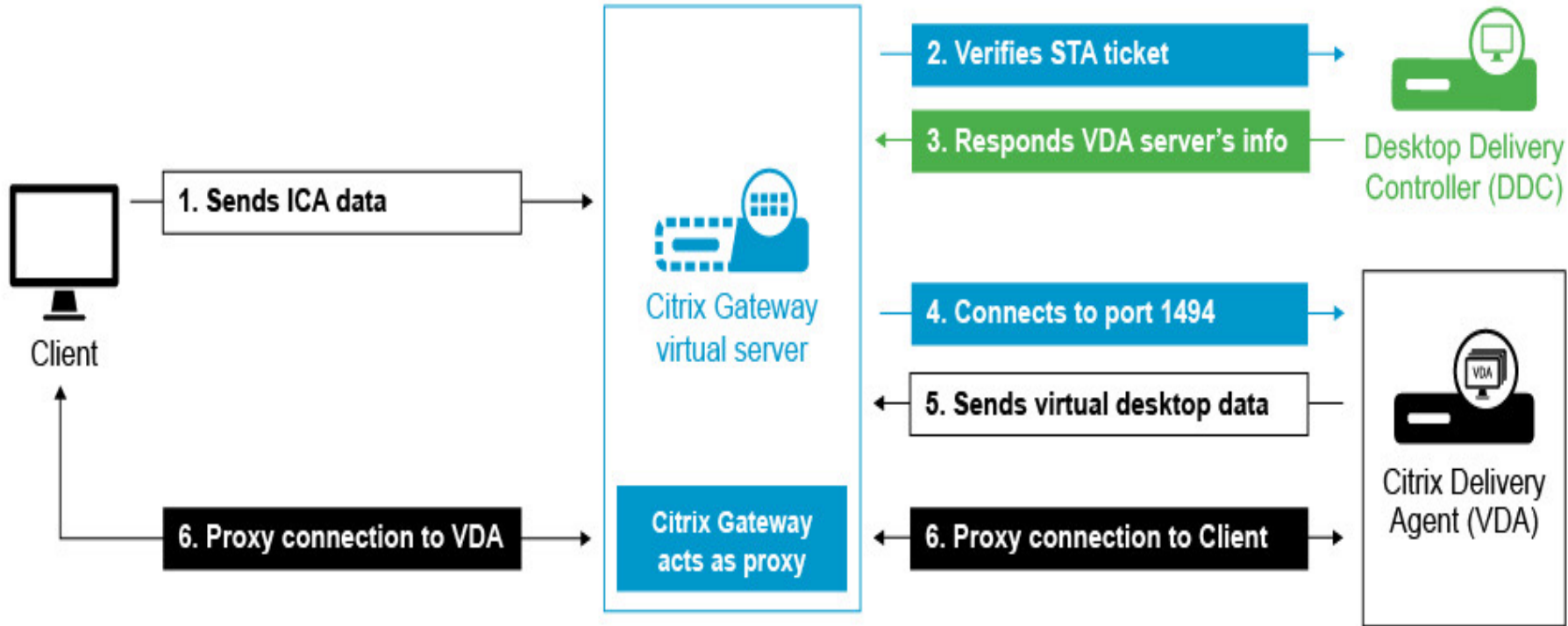
Citrix Gateway Get APP DeskTop List

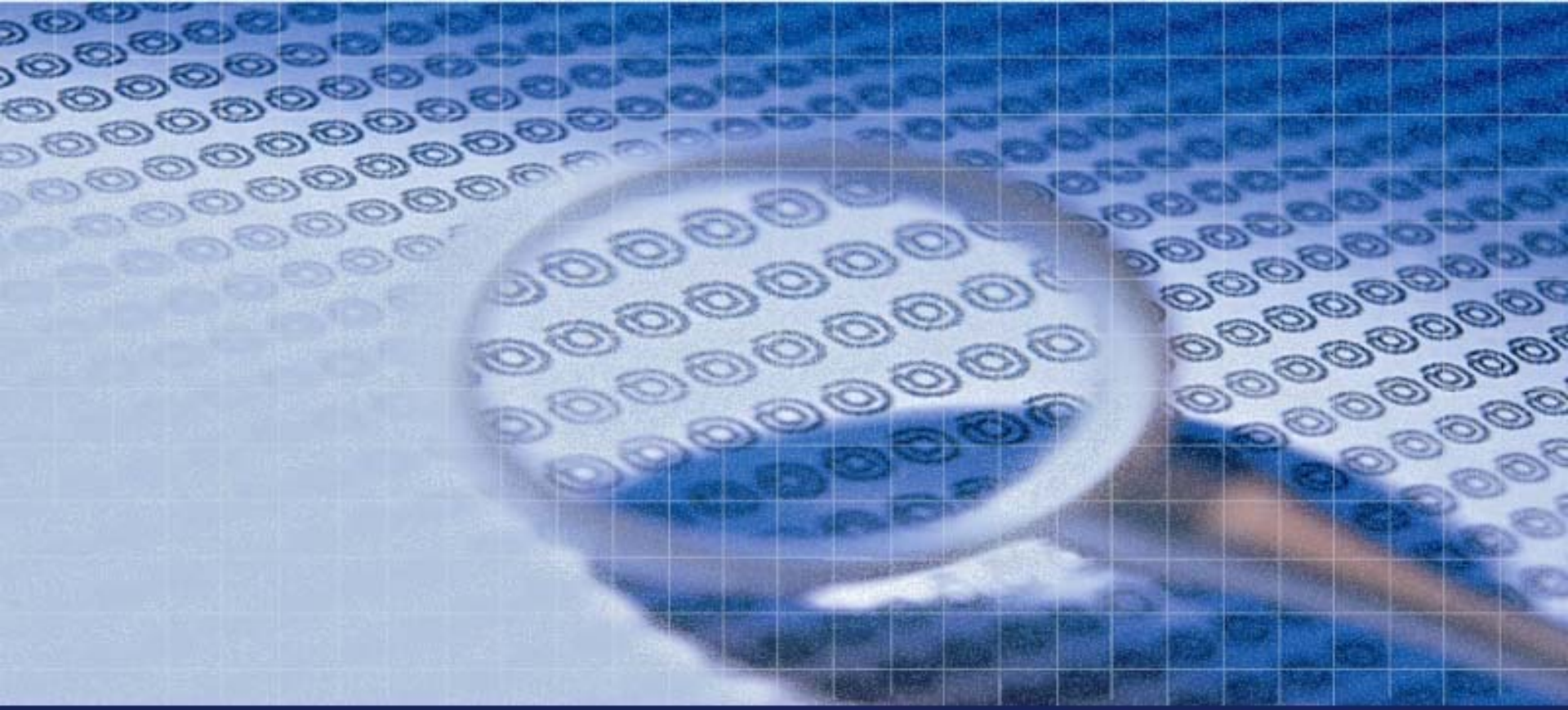


Citrix Gateway Get ICA file



Citrix Gateway Client launch APP





Citrix Gateway Intergrate



設定流程



citrix ADC (8905)

HA Status
● Not configured

Partition
default

nsroot

Dashboard

Configuration

Reporting

Documentation

Downloads



Search in Menu

Citrix Gateway



System >

AppExpert >

Traffic Management >

Optimization >

Security >

Citrix Gateway >

Authentication >

Integrate with Citrix Products

Unified Gateway

XenMobile

XenApp and XenDesktop

Show Unlicensed Features



Getting Started

[Citrix Gateway Wizard](#)

Policy Manager

[Citrix Gateway Policy Manager](#)

Monitor Connections

[Active user sessions](#)

[ICA Connections](#)

[DTLS ICA Connections](#)

Customize Access Interface

[Upload the Access Interface](#)

Update Client Components

[Upgrade EPA Libraries](#)

Configuration Summary

No Citrix Gateway Virtual Server

No AAA Group

No AAA User

[Statistics](#)

設定流程



點擊Get Started，開始設定。

The screenshot shows the Citrix ADC (8905) management console. The top navigation bar includes 'Dashboard', 'Configuration', 'Reporting', 'Documentation', and 'Downloads'. The main content area features a purple banner with the text 'Citrix ADC for XenApp and XenDesktop'. Below the banner, a 'Welcome!' message states: 'This wizard assists you in setting up Citrix ADC for XenApp and XenDesktop deployments. You can use this wizard to configure Citrix ADC to provide access to hosted virtual desktops (XenDesktop) and hosted Windows virtual apps (XenApp) through Citrix Gateway.' A prominent 'Get Started' button is located at the bottom of the main content area, with a red arrow pointing to it. The left sidebar contains a search bar and a list of menu items: System, AppExpert, Traffic Management, Optimization, Security, Citrix Gateway, Authentication, Integrate with Citrix Products (Unified Gateway, XenMobile, XenApp and XenDesktop), and Show Unlicensed Features. The top right corner displays 'HA Status Not configured', 'Partition default', and 'nsroot'.

設定流程



預設就是整合StoreFront，接著點擊Continue按鈕。

The screenshot shows the Citrix ADC (8905) management interface. At the top, there's a dark green header with 'citrix ADC (8905)' on the left, 'HA Status Not configured' in the middle, and 'Partition default' and 'nsroot' on the right. Below the header is a navigation bar with 'Dashboard', 'Configuration', 'Reporting', 'Documentation', and 'Downloads'. The main content area is titled 'XenApp/XenDesktop Setup Wizard'. It features three radio button options: 'StoreFront' (selected), 'Web Interface', and 'Web Interface On Citrix ADC'. Below these is a 'Prerequisites' section with a grey background, listing several requirements: IP address of the Citrix Gateway virtual server, opening firewall ports, LAN access, software version details, StoreFront FQDN, Certificate, and Authentication. At the bottom of the wizard, there are two buttons: 'Continue' (highlighted with a red arrow) and 'Cancel'.

設定流程



Gateway FQDN填入申請憑證的domain，Gateway IP為填入Citrix Gateway VIP，並勾選Redirect requests from port 80 to secure port

citrix ADC (8905) HA Status Not configured Partition default nsroot

Dashboard Configuration Reporting Documentation Downloads

← Citrix Gateway Settings

Citrix Gateway

Gateway FQDN*

 ?

This is the FQDN the user will connect to. Traffic to this FQDN must be forwarded to the 'Gateway IP Address' entered below.

Gateway IP Address*

 ?

Port*

Redirect requests from port 80 to secure port ?

Basic Settings

- 1 Citrix Gateway ✓
- 2 Server Certificate
- 3 StoreFront
- 4 Authentication

設定流程



接著選擇，匯入並安裝好的憑證，接著點擊Continue。

citrix ADC (8905) HA Status Not configured Partition default nsroot

Dashboard Configuration Reporting Documentation Downloads

← Citrix Gateway Settings

Citrix Gateway

Gateway IP Address	140.123.25.249
Gateway FQDN	itvpn2.ccu.edu.tw
Port	443
Redirect requests from port 80 to secure port	No

Server Certificate

The certificate file should contain the complete certificate chain including any Intermediate CA Certificate

Use existing certificate Install Certificate

Server Certificate*
wildcard_ccu

[Continue](#) [Do It Later](#)

Basic Settings

- 1 Citrix Gateway ✓
- 2 **Server Certificate**
- 3 StoreFront
- 4 Authentication

設定流程



填入StoreFront URL，請務必必要讓Citrix ADC解析的到該FQDN.

Dashboard Configuration Reporting Documentation Downloads

← Citrix Gateway Settings

Citrix Gateway		
Gateway IP Address	140.123.25.249	
Gateway FQDN	itvpn2.ccu.edu.tw	
Port	443	
Redirect requests from port 80 to secure port	No	

Server Certificate		
Certificate File	Common Name	Days to Expire
wildcard_ccu	*.ccu.edu.tw	392

StoreFront
StoreFront URL*
<input type="text" value="http://citrix-ddc.citrix.ccu.edu.tw"/>
<input type="button" value="Retrieve Stores"/>
Default Active Directory Domain*
<input type="text" value=""/> ? × Please enter value
Secure Ticket Authority URL*
<input type="text" value="http(s)://sta"/>
<input type="button" value="Test STA Connectivity"/>
<input type="checkbox"/> Use this StoreFront for Authentication
<input type="button" value="Continue"/> <input type="button" value="Cancel"/>

Basic Settings

- 1 Citrix Gateway ✓
- 2 Server Certificate ✓
- 3 StoreFront
- 4 Authentication

設定流程



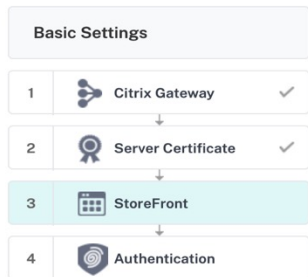
接著點擊Retrieve Stores，Citrix ADC會自動連線到StoreFront，接著Receiver for Web Path，會顯示路徑，如果失敗請確認Citrix ADC是否有正確解析到StoreFront FQDN

← Citrix Gateway Settings

Citrix Gateway		
Gateway IP Address	140.123.25.249	
Gateway FQDN	itvpn2.ccu.edu.tw	
Port	443	
Redirect requests from port 80 to secure port	No	

Server Certificate		
Certificate File	Wildcard	Common Name
wildcard_ccu		*.ccu.edu.tw
		Days to Expire
		392

StoreFront	
StoreFront URL*	<input type="text" value="http://citrix-ddc.citrix.ccu.edu.tw"/>
<input type="button" value="Retrieve Stores"/>	
Receiver for Web Path*	<input type="text" value="/Citrix/DemoWeb"/>
Default Active Directory Domain*	<input type="text" value="ccu.edu.tw"/>
Secure Ticket Authority URL*	<input type="text" value="http://citrix-ddc.citrix.ccu.edu.tw"/>
<input type="button" value="Test STA Connectivity"/>	
<input type="checkbox"/> Use this StoreFront for Authentication	



https://140.123.17.35/menu/main#

設定流程



Default Actoin Directory Domain填入AD Domain，請填入正確的Domain，錯誤會造成AD 認證問題。

← Citrix Gateway Settings

Citrix Gateway	
Gateway IP Address	140.123.25.249
Gateway FQDN	itvpn2.ccu.edu.tw
Port	443
Redirect requests from port 80 to secure port	No

Server Certificate		
Certificate File	Common Name	Days to Expire
wildcard_ccu	*.ccu.edu.tw	392

StoreFront
StoreFront URL* <input type="text" value="http://citrix-ddc.citrix.ccu.edu.tw"/>
Retrieve Stores
Receiver for Web Path* <input type="text" value="/Citrix/DemoWeb"/>
Default Active Directory Domain* <input type="text" value="ccu.edu.tw"/>
Secure Ticket Authority URL* <input type="text" value="http://citrix-ddc.citrix.ccu.edu.tw"/>
Test STA Connectivity
<input type="checkbox"/> Use this StoreFront for Authentication
Continue Cancel

Basic Settings

- 1 Citrix Gateway ✓
- 2 Server Certificate ✓
- 3 StoreFront
- 4 Authentication

https://140.123.17.35/manu/asn#

設定流程



Secure Ticket Authority URL，http可填入IP如下圖所示，填入後點擊Test STA Connectivity按鈕進行檢測，出現UP表示STA Server正常。

Citrix Gateway

Gateway IP Address: 140.123.25.249
Gateway FQDN: itvpn2.ccu.edu.tw
Port: 443
Redirect requests from port 80 to secure port: No

Server Certificate

Certificate File	Common Name	Days to Expire
wildcard_ccu	*.ccu.edu.tw	392

StoreFront

StoreFront URL*: ?

Receiver for Web Path*: ▼

Default Active Directory Domain*: ?

Secure Ticket Authority URL*: + ?

×

Use this StoreFront for Authentication

Basic Settings

- Citrix Gateway
- Server Certificate
- StoreFront
- Authentication

設定流程



接著設定認證方式，下拉選擇，這裡用AD認證就選擇Domain，並填入AD server IP，Base DN輸入AD搜尋帳號規則，Service Account請輸入AD一般使用權限使用者，注意該帳號被鎖定或密碼過期，會造成AD認證問題。

The screenshot displays the 'Authentication' configuration page in the Citrix Gateway management console. The page is divided into two main sections: 'Authentication' on the left and 'Basic Settings' on the right.

Authentication Section:

- Choose Authentication Type*:** A dropdown menu set to 'Domain'.
- IP Address*:** A text input field containing '140 . 123 . 254 . 100'.
- Port*:** A text input field containing '636'.
- Security Type*:** A dropdown menu set to 'SSL'.
- Base DN*:** A text input field containing 'CN=citrixvpn,CN=Users,DC=citrix,I'.
- Service account*:** A text input field containing 'citrixvpn@ccu.edu.tw'.
- Password*:** A password input field with a masked password '.....' and a toggle for visibility.
- Confirm Password*:** A password input field with a masked password '.....'.
- Test Connection:** A button to verify the configuration.
- Time out (seconds)*:** A text input field containing '3'.
- Server Logon Name Attribute*:** A dropdown menu set to '...<< New >>...'.
- Server Logon Name Attribute*:** A text input field containing 'sAMAccountName/userPrincipalN'.

Basic Settings Section:

- A vertical list of four settings, each with a status checkmark:
 - 1 Citrix Gateway ✓
 - 2 Server Certificate ✓
 - 3 StoreFront ✓
 - 4 Authentication ✓

At the bottom of the 'Authentication' section, there are two buttons: 'Continue' and 'Cancel'.

設定流程



AD設定完後，點擊Test Connection按鈕進行測試，

Authentication

Choose Authentication Type*

Domain

IP Address*

140 . 123 . 254 . 100

Port*

389

Security Type*

PLAINTEXT

Base DN*

CN=Users,DC=citrix,DC=ccu,DC=et

Service account*

citrixvpn@ccu.edu.tw

Password*

Confirm Password*

Retrieve Attributes

Test Connection

Time out (seconds)*

3

Server Logon Name Attribute*

sAMAccountName

--<< New >>--

sAMAccountName

userPrincipalName

Basic Settings

- 1 Citrix Gateway ✓
- 2 Server Certificate ✓
- 3 StoreFront ✓
- 4 Authentication

設定流程



測試連線正常，點擊Retrieve Attributes，查詢AD屬性，接著下拉Server Logon Name Attribute，選sAMAccountName。

Authentication

Choose Authentication Type*
Domain

IP Address*
140 . 123 . 254 . 100 Enter the IP address of the Domain server.

Port*
389

Security Type*
PLAINTEXT

Base DN*
CN=Users,DC=citrix,DC=ccu,DC=er

Service account*
citrixvpn@ccu.edu.tw

Password*
.....

Confirm Password*
.....

Retrieve Attributes
Test Connection

Time out (seconds)*
3

Server Logon Name Attribute*
sAMAccountName
--<< New >>--
sAMAccountName
userPrincipalName

Basic Settings

- 1 Citrix Gateway ✓
- 2 Server Certificate ✓
- 3 StoreFront ✓
- 4 **Authentication**

設定流程



點擊Done按鈕，就完成整個Citrix Gateway整合Storefront的設定。

Dashboard Configuration Reporting Documentation Downloads



← Citrix Gateway Settings

Citrix Gateway		
Gateway IP Address	140.123.25.249	
Gateway FQDN	itvpn2.ccu.edu.tw	
Port	443	
Redirect requests from port 80 to secure port	No	

Server Certificate		
Certificate File	Common Name	Days to Expire
wildcard_ccu	*.ccu.edu.tw	392

StoreFront		
StoreFront URL	http://citrix-ddc.citrix.ccu.edu.tw	
Storefront Status	UP	
Receiver for Web Path	/Citrix/DemoWeb	
Default Active Directory Domain	ccu.edu.tw	
List of Secure Ticket Authority URL(s) with status	http://140.123.254.102 ● DOWN	

Authentication			
Type	Domain		
140.123.254.100	Domain	●	Primary

Basic Settings

- 1 Citrix Gateway ✓
- 2 Server Certificate ✓
- 3 StoreFront ✓
- 4 Authentication ✓

Done

設定流程



StoreFront也要配合設定，才有辦法達到SSO。

The screenshot shows the Citrix StoreFront configuration interface. On the left, a tree view shows 'Citrix StoreFront' expanded to 'Stores'. A context menu is open over a 'Store' entry, with 'Manage Authentication Methods' selected. Below, the 'Manage Authentication Methods - Store' dialog box is displayed. It contains a table of authentication methods with checkboxes and settings icons.

Method	Settings
<input checked="" type="checkbox"/> User name and password	
<input type="checkbox"/> SAML Authentication	
<input type="checkbox"/> Domain pass-through <small>Can be enabled / disabled separately on Receiver for Web sites</small>	
<input type="checkbox"/> Smart card <small>Can be enabled / disabled separately on Receiver for Web sites</small>	
<input checked="" type="checkbox"/> HTTP Basic	
<input checked="" type="checkbox"/> Pass-through from Citrix Gateway	

Installing and uninstalling the authentication methods and the authentication service settings are included in the advanced options. Advanced ▾

OK Cancel



Troubleshooting



Troubleshooting



點擊XenApp and XenDesktop，右方就是Citrix Gateway的Dashboard。

System

- System >
- AppExpert >
- Traffic Management >
- Optimization >
- Security >
- Citrix Gateway >
- Authentication >

Integrate with Citrix Products

- Unified Gateway
- XenMobile
- XenApp and XenDesktop**

Show Unlicensed Features

Dashboard

Universal Licenses

1

0 10:52:30 10:52:45 10:53:00

Current Universal Licenses
0

HDX Sessions

1

0 10:52:30 10:52:45 10:53:00

Current HDX Sessions
0

CPU Usage

100
75
50
25
0 10:52:30 10:52:45 10:53:00

Current CPU Usage
0.20%

Memory Usage

100
75
50
25
0 10:52:30 10:52:45 10:53:00

Current Memory Usage
6.44%

Active User Sessions

Username	Group Name	Insert Client IP Address
----------	------------	--------------------------

Create New Gateway

● itvpn2.ccu.edu.tw 140.123.25.249	
STA	1 Up, 0 Down
Storefront	Up

Troubleshooting



在System Log Files，下拉Module選單，並選擇SSLVPN可以看到使用者連線歷程。

citrix ADC (8905) HA Status: Not configured Partition: default nsroot

Dashboard Configuration Reporting Documentation Downloads

System Log Files

Log Messages (202 results) Sort: Newest first

Search

Mon, 12 Jul 2021 09:53:53 <input type="button" value="Info"/>	140.123.17.35 07/12/2021:01:53:53 GMT nslb2 0-PPE-2 : default SSLVPN LOGOUT 1242 0 : Context yafang@140.123.29.141 - SessionId: 33 - User yafang - Client_ip 140.123.29.141 - Nat_ip "Mapped Ip" - Vserver 140.123.25.249:443 - Start_time "07/12/2021:01:21:23 GMT" - End_time "07/12/2021:01:53:53 GMT" - Duration 00:32:30 - Http_resources_accessed 4 - NonHttp_services_accessed 0 - Total_TCP_connections 25 - Total_UDP_flows 0 - Total_policies_allowed 25 - Total_policies_denied 0 - Total_bytes_send 37952 - Total_bytes_recv 59083 - Total_compressedbytes_send 0 - Total_compressedbytes_recv 0 - Compression_ratio_send 0.00% - Compression_ratio_recv 0.00% - LogoutMethod "Explicit" - Group(s) "N/A"
Mon, 12 Jul 2021 09:53:53 <input type="button" value="Info"/>	140.123.17.35 07/12/2021:01:53:53 GMT nslb2 0-PPE-4 : default SSLVPN TCPCONNSTAT 61086 0 : Context yafang@140.123.29.141 - SessionId: 33 - User yafang - Client_ip 140.123.29.141 - Nat_ip 140.123.25.241 - Vserver 140.123.25.249:443 - Source 140.123.29.141:55412 - Destination 140.123.254.102:80 - Start_time "07/12/2021:01:53:53 GMT" - End_time "07/12/2021:01:53:53 GMT" - Duration 00:00:00 - Total_bytes_send 1501 - Total_bytes_recv 662 - Total_compressedbytes_send 0 - Total_compressedbytes_recv 0 - Compression_ratio_send 0.00% - Compression_ratio_recv 0.00% - Access Allowed - Group(s) "N/A"
Mon, 12 Jul 2021 09:53:53 <input type="button" value="Info"/>	140.123.17.35 07/12/2021:01:53:53 GMT nslb2 0-PPE-4 : default SSLVPN HTTPREQUEST 61085 0 : Context yafang@140.123.29.141 - SessionId: 33 - itvpn2.ccu.edu.tw User yafang : Group(s) N/A : Vserver 140.123.25.249:443 - 07/12/2021:01:53:53 GMT : SSO is ON : POST /Citrix/DemoWeb/Authentication/Logoff -
Mon, 12 Jul 2021 09:53:53 <input type="button" value="Info"/>	140.123.17.35 07/12/2021:01:53:53 GMT nslb2 0-PPE-1 : default SSLVPN ICAEND_CONNSTAT 1259 0 : Source 140.123.29.141:54146 - Destination 140.123.254.104:1494 - customername - username:domainname yafang:citrix.ccu.edu.tw - startime "07/12/2021:01:22:14 GMT" - endime "07/12/2021:01:53:53 GMT" - Duration 00:31:39 - Total_bytes_send 16058597 - Total_bytes_recv 2257720 - Total_compressedbytes_send 0 - Total_compressedbytes_recv 0 - Compression_ratio_send 0.00% - Compression_ratio_recv 0.00% - connectionId 368468

File: /var/log/ns.log.7.gz

Filter By: Clear

- Module: **SSLVPN**
- Event Type
- Severity

Troubleshooting



點擊Citrix Gateway，右方有Monitor Connections，點擊Active user sessions，可以看到現有連線中的使用者。

citrix ADC (8905)

Dashboard Configuration Reporting Documentation Downloads

Search in Menu

Citrix Gateway

- System >
- AppExpert >
- Traffic Management >
- Optimization >
- Security >
- Citrix Gateway** ▾
 - Global Settings
 - Virtual Servers
 - Portal Themes
 - User Administration >
 - KCD Accounts
 - Policies >
 - Resources >

Citrix Gateway

Getting Started
[Citrix Gateway Wizard](#)

Monitor Connections
[Active user sessions](#)
[ICA Connections](#)
[DTLS ICA Connect](#) Click to access the configuration utility

Update Client Components
[Upgrade EPA Libraries](#)

Configuration Summary
1 Citrix Gateway Virtual Server
No AAA Group
No AAA User

Statisti

Troubleshooting



點擊進去後預設是看所有使用者連線狀況，點擊All是下拉選單可以選擇只看特定使用者。

citrix ADC (8905)

Dashboard Configuration Reporting Documentation Downloads

← Active User Sessions

Active User Sessions

All

Continue Cancel

citrix ADC (8905)

Dashboard Configuration Reporting Documentation Downloads

← Active User Sessions

Active User Sessions

All

All

Active Users

Active Groups

Intranet IP

Troubleshooting



點擊End按鈕可以將現在連線使用者踢出。

citrix ADC (8905) HA Status Not configured Partition default nsroot

Dashboard Configuration Reporting Documentation Downloads

← Active User Sessions

View Sessions

Type **Active Users**

Active Users*
citrixvpn

Sessions

End

Username	Insert Client IP Address	Client Port	Server IP	Server Port	Intranet IP	Session Key
citrixvpn		0		0	0.0.0.0	7eec29c291dc9fb09fa1103b3bab0e03
citrixvpn	61.219.165.187	54884	140.123.25.249	443	0.0.0.0	7eec29c291dc9fb09fa1103b3bab0e03
citrixvpn	61.219.165.187	6551	140.123.25.249	443	0.0.0.0	7eec29c291dc9fb09fa1103b3bab0e03
citrixvpn	61.219.165.187	55488	140.123.25.249	443	0.0.0.0	7eec29c291dc9fb09fa1103b3bab0e03
citrixvpn	61.219.165.187	4115	140.123.25.249	443	0.0.0.0	7eec29c291dc9fb09fa1103b3bab0e03
citrixvpn	61.219.165.187	6392	140.123.25.249	443	0.0.0.0	7eec29c291dc9fb09fa1103b3bab0e03

Done