GAJSHIELD

Data Security Firewall

How to configure Enterprise cloud

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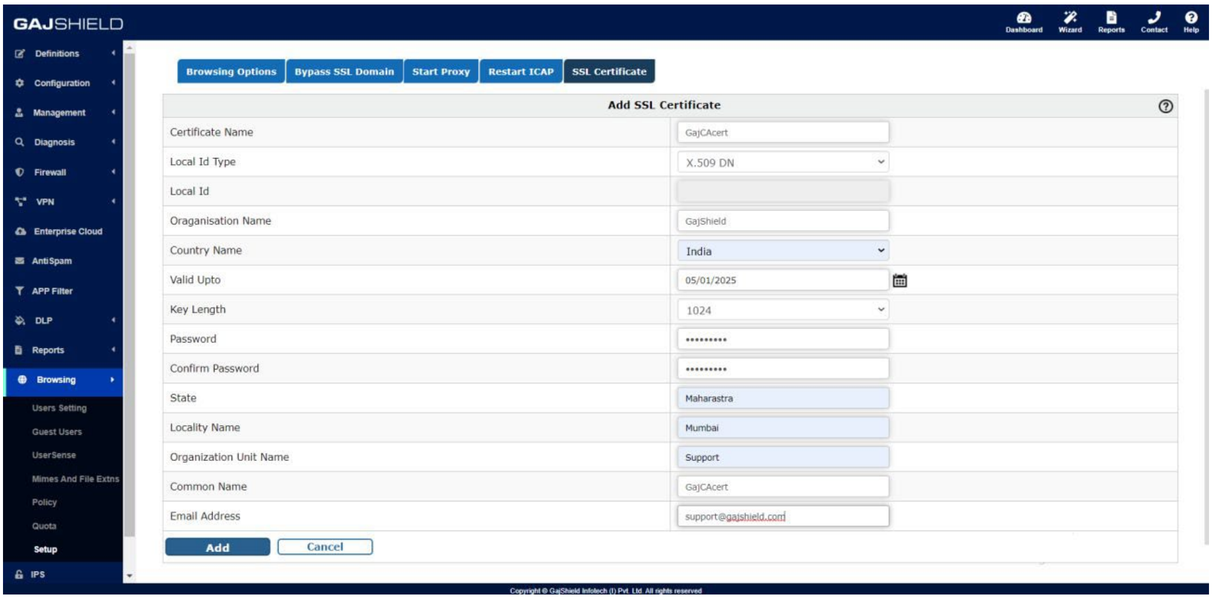
Note: Before configuring Enterprise Cloud on GajShield, make sure you have a cloud license.

Note: If you find that CA certificate has been created beforehand, it is the same certificate created under Browsing >> Setup >> SSL Certificate used for scanning https browsing traffic. You have to now configure additional information fields specified below



Add SSL Certificate

Certificate Name	GajCAcert
Local Id Type	X.509 DN
Local Id	
Oraganisation Name	GajShield
Country Name	India
Valid Upto	05/01/2025
Key Length	1024
Password	•••••••••
Confirm Password	•••••••••
State	Maharastra
Locality Name	Mumbai
Organization Unit Name	Support
Common Name	GajCAcert
Email Address	support@gajshield.com

Go to Enterprise Cloud tab >> Go to Organization Information and fill in the details to configure cloud service information.

If not, you'll have to add all the CA certificate information under Enterprise Cloud -> Organization Information

- **Certificate Name:** A unique name to identify the CA Certificate.
- **Valid up to:** Date till which the CA Certificate is valid, after which the certificate expires.
- **Key Length:** The encryption key size, more the key length, greater the security level & more processing power required.

  Note: Certificate should have key length value set to 1024
- **Password:** The password/passphrase for the CA Certificate.

- **Local ID:** The Local Identifier for the Certificate helps the firewall to identify the CA Certificate.

#FQDN: The Fully Qualified Domain Name (FQDN), FQDN must be in ASCII format. For example, myhost.test.com.

#X.509 DN: An X.509 certificate binds a name to a public key value. The role of the certificate is to associate a public key with the identity contained in the X.509 certificate.

#IP Address: IP address the certificate is associated with. It can be any IP address. For example, 125.11.12.13

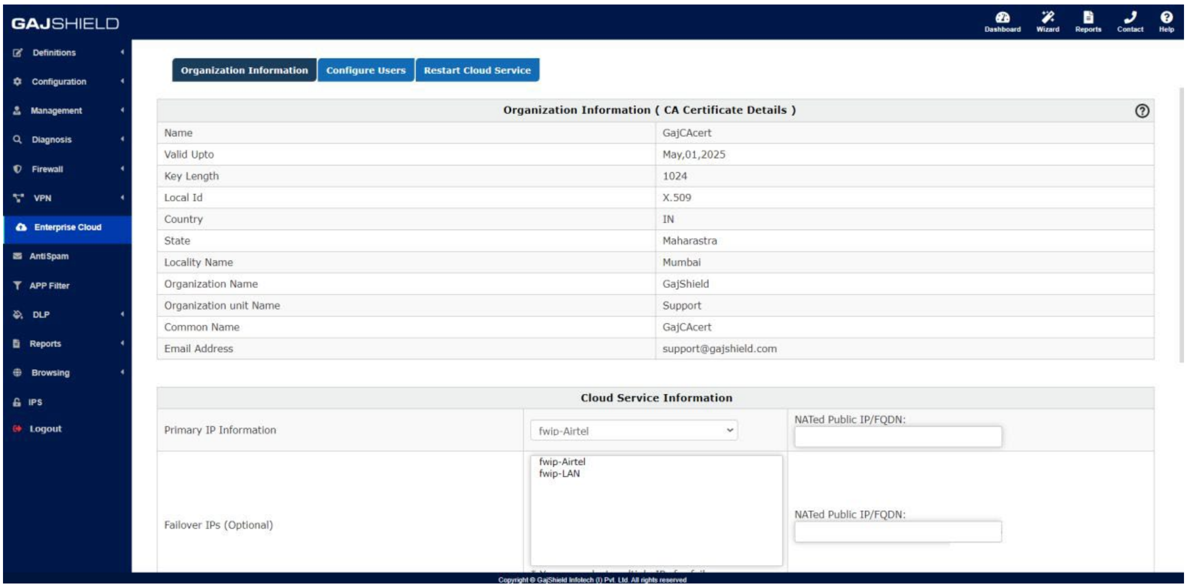
#Email: Email address the certificate is associated with. For example, support@gajshield.com

- **Country Name:** Select the country where the firewall is installed.
- **State / Locality Name:** State and Locality are full names, i.e. 'California', 'Los Angeles'.
- **Organization Name:** Full Legal Company or Personal Name, as legally registered.
- **Organizational Unit Name:** In whichever branch of your company the firewall is getting installed. For example, Accounting, IT etc.
- **Common Name:** Common name is a mandatory bit of uniquely identifying data, such as FQDN or Personal Name.
- **Email Address:** Insert support email address in case of issues.

1. Important: If your current certificate expires and you need to create a new certificate, under Browsing >> Setup >> SSL Certificate after creating the certificate, go to Enterprise Cloud >>Organization.

   Information & click on, without doing any changes in the configuration click on save. After recreating the certificate, you will need to delete the old cloud exe under Configuration Users and create new cloud exe.

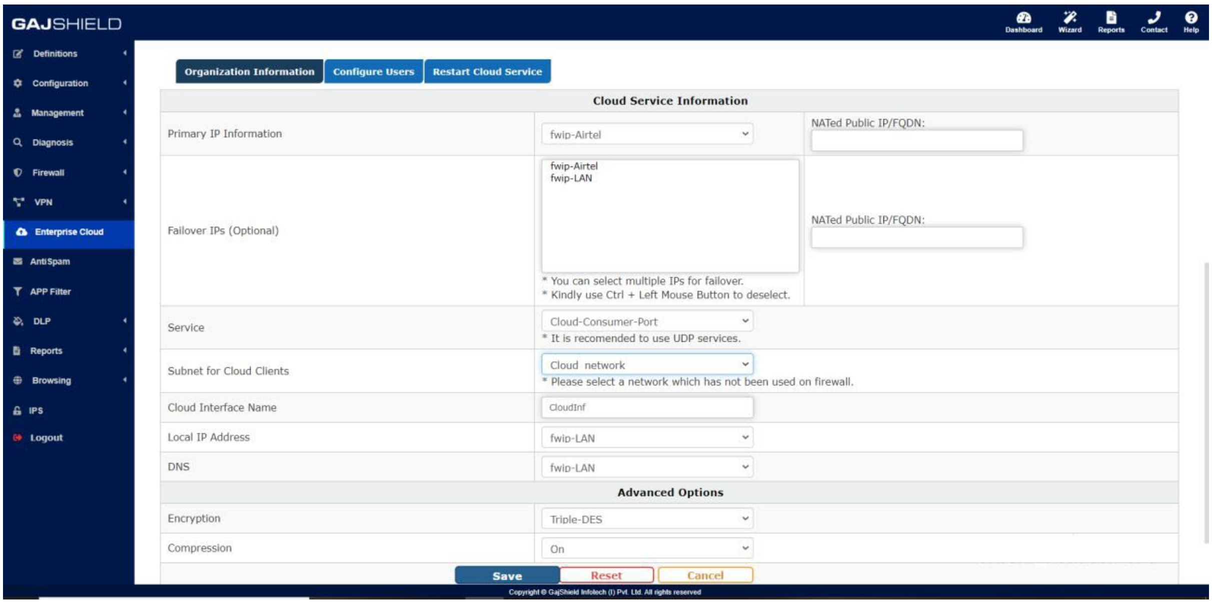
2. Select Cloud configuration as required, under Cloud Service Information.



Organization Information (CA Certificate Details)	
Name	GajCAcert
Valid Upto	May,01,2025
Key Length	1024
Local Id	X.509
Country	IN
State	Maharastra
Locality Name	Mumbai
Organization Name	GajShield
Organization unit Name	Support
Common Name	GajCAcert
Email Address	support@gajshield.com

Cloud Service Information

Primary IP Information	fwip-Airtel	NATed Public IP/FQDN:
Failover IPs (Optional)	fwip-Airtel fwip-LAN	NATed Public IP/FQDN:



Cloud Service Information

Primary IP Information	fwip-Airtel	NATed Public IP/FQDN:
Failover IPs (Optional)	fwip-Airtel fwip-LAN * You can select multiple IPs for failover. * Kindly use Ctrl + Left Mouse Button to deselect.	NATed Public IP/FQDN:
Service	Cloud-Consumer-Port * It is recomended to use UDP services.	
Subnet for Cloud Clients	Cloud network * Please select a network which has not been used on firewall.	
Cloud Interface Name	CloudInf	
Local IP Address	fwip-LAN	
DNS	fwip-LAN	

Advanced Options

Encryption	Triple-DES
Compression	On

- **Primary IP Information:** First priority will be given to this IP by Cloud client.

- **Failover IPs (Optional):** Select multiple IP's of different ISP for failover. Second priority will be given to failover IP's, when primary IP is not reachable.

- **Service:** Create / select port for the cloud client to link with GajShield, use port number greater than 1024 TCP / UDP.

  Note: UDP ports / services will not work when selecting cloud failover option

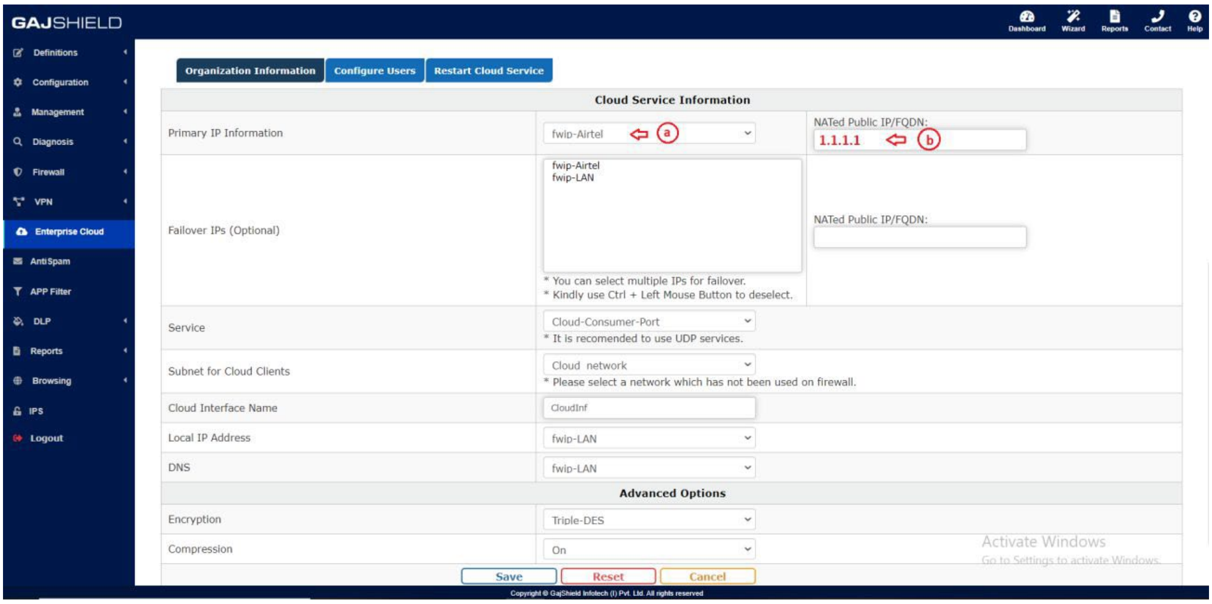
- **Subnet for Cloud Client:** Cloud Clients will use IP address from this Subnet once the clients connect to GajShield.

- **Local IP Address:** Cloud Clients would connect to the LAN network through IP.

- **DNS:** Public or Private IP which can be used by Cloud Clients to resolve DNS to browse Internet / intranet.

- **Encryption:** Data is encrypted between the Cloud client and GajShield firewall, using (Blowfish, AES & Triple-DES). Select any one from the drop-down list.

- **Compression:** Traffic travelling between the cloud client and GajShield firewall is compressed, when this option is kept ON.



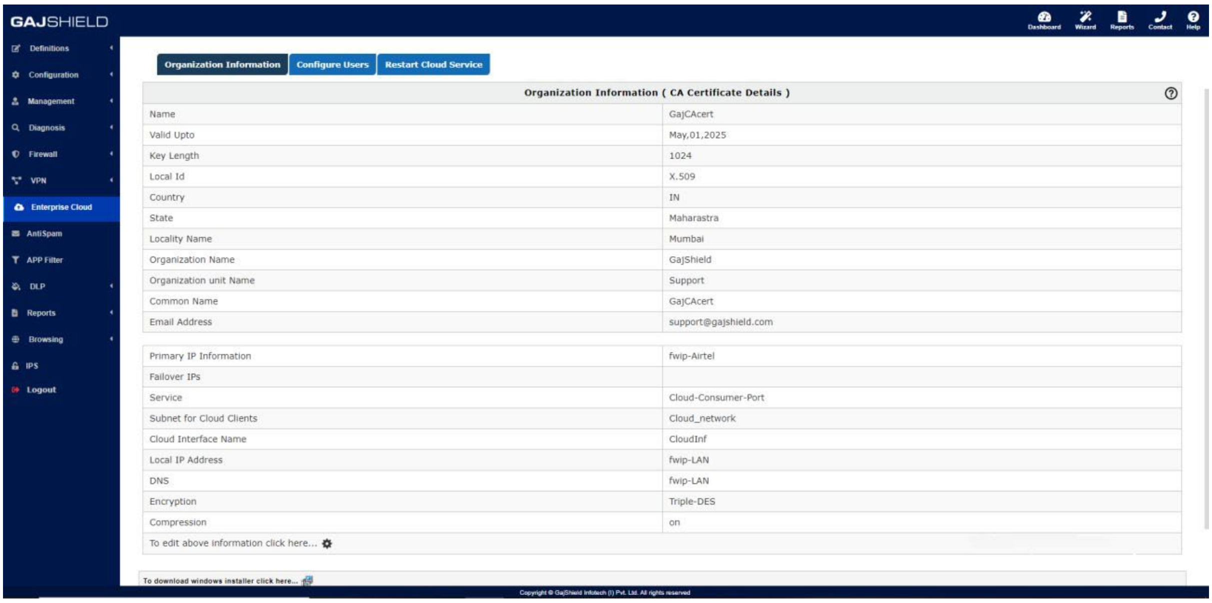
Cloud Service Information

Primary IP Information	fwip-Airtel	NATed Public IP/FQDN: 1.1.1.1
Failover IPs (Optional)	fwip-Airtel fwip-LAN * You can select multiple IPs for failover. * Kindly use Ctrl + Left Mouse Button to deselect.	NATed Public IP/FQDN:
Service	Cloud-Consumer-Port * It is recomended to use UDP services.	
Subnet for Cloud Clients	Cloud network * Please select a network which has not been used on firewall.	
Cloud Interface Name	CloudInf	
Local IP Address	fwip-LAN	
DNS	fwip-LAN	

Advanced Options

Encryption	Triple-DES
Compression	On

3. Final Cloud configuration will look like the below image.



Organization Information (CA Certificate Details)

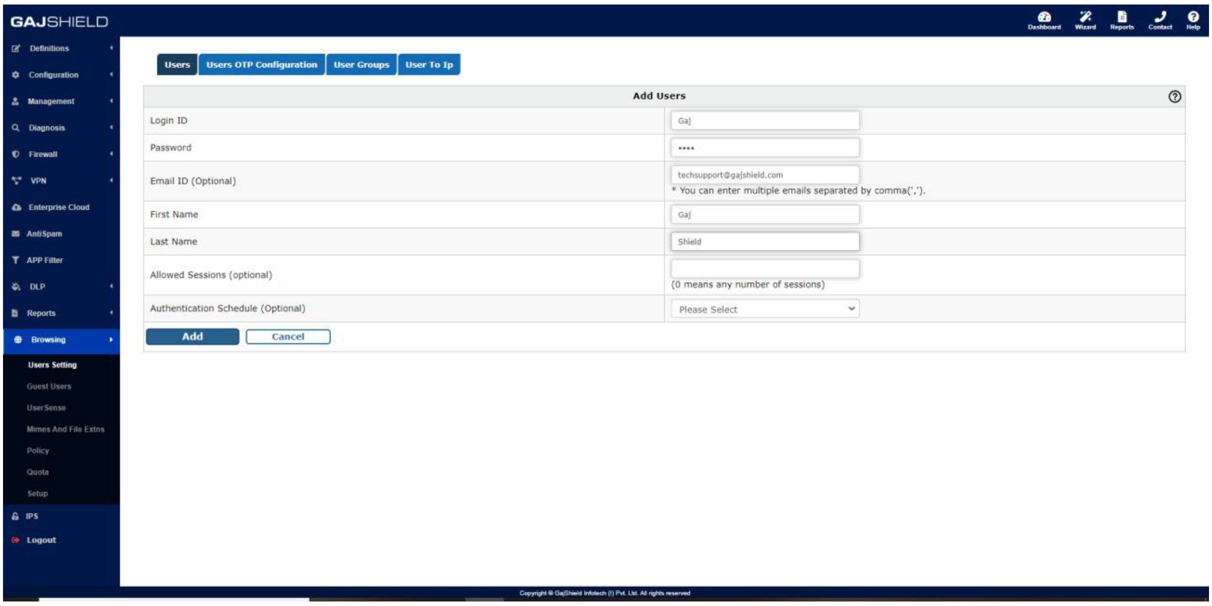
Name	GajCAcert
Valid Upto	May,01,2025
Key Length	1024
Local Id	X.509
Country	IN
State	Maharastra
Locality Name	Mumbai
Organization Name	GajShield
Organization unit Name	Support
Common Name	GajCAcert
Email Address	support@gajshield.com

Primary IP Information	fwip-Airtel
Failover IPs	
Service	Cloud-Consumer-Port
Subnet for Cloud Clients	Cloud_network
Cloud Interface Name	CloudInf
Local IP Address	fwip-LAN
DNS	fwip-LAN
Encryption	Triple-DES
Compression	on

To edit above information click here...

To download windows installer click here...

4. Now you need to create a user from Browsing >> User Setting >> Users >> +
   After adding fields click on Add button.



Add Users

Login ID	Gaj
Password	••••
Email ID (Optional)	techsupport@gajshield.com * You can enter multiple emails separated by comma(',').
First Name	Gaj
Last Name	Shield
Allowed Sessions (optional)	(0 means any number of sessions)
Authentication Schedule (Optional)	Please Select

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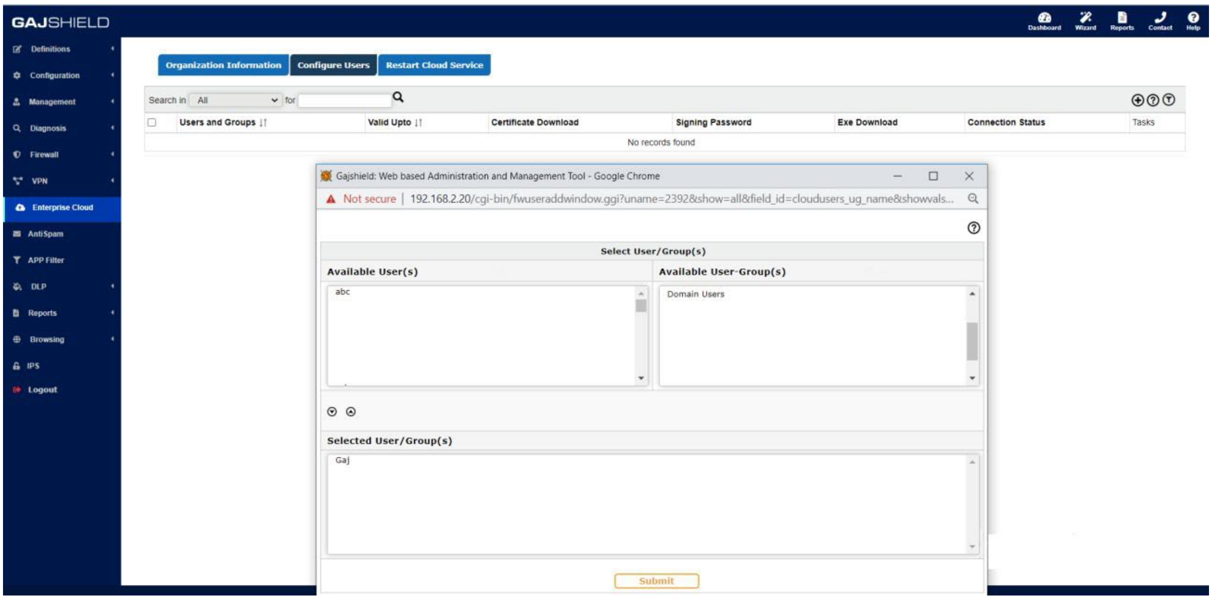
5. Go to Enterprise Cloud >> Configure Users >> +



□	Users and Groups	Valid Upto	Certificate Download	Signing Password	Exe Download	Connection Status	Tasks

No records found

Gajshield: Web based Administration and Management Tool - Google Chrome

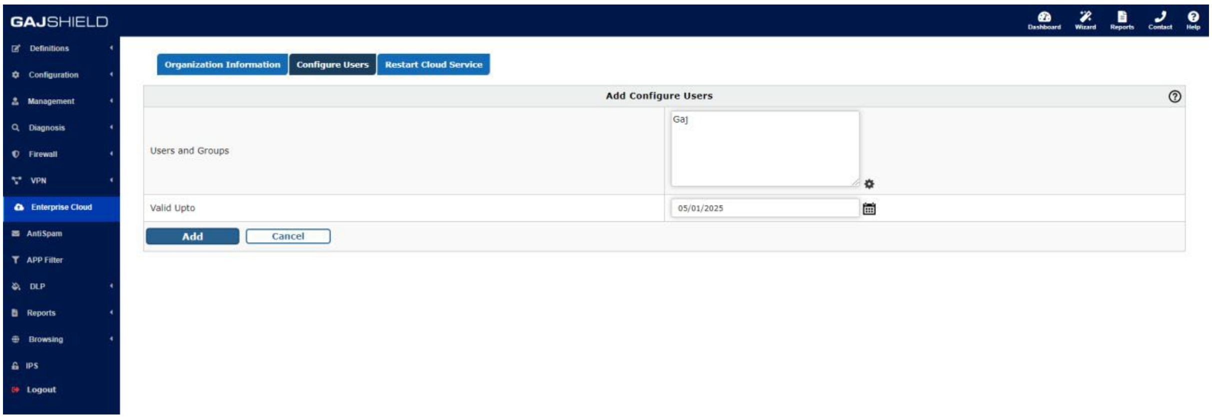
Not secure | 192.168.2.20/cgi-bin/fwuseraddwindow.ggi?uname=2392&show=all&field_id=cloudusers_ug_name&showvals...

Select User/Group(s)

Available User(s)	Available User-Group(s)
abc	Domain Users

Selected User/Group(s)

Gaj



Add Configure Users

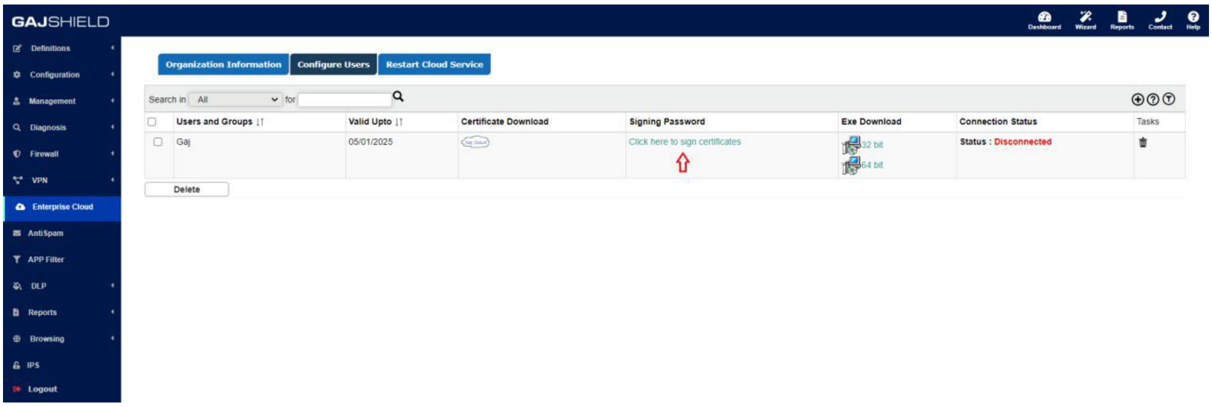
Users and Groups	Gaj
Valid Upto	05/01/2025

- Move users or group by simply selecting them and clicking on, from Available Users or Available Groups tab to Selected Users & Users Group List. To remove user or groups from Selected Users & Users Group List, select the users or group and click on.

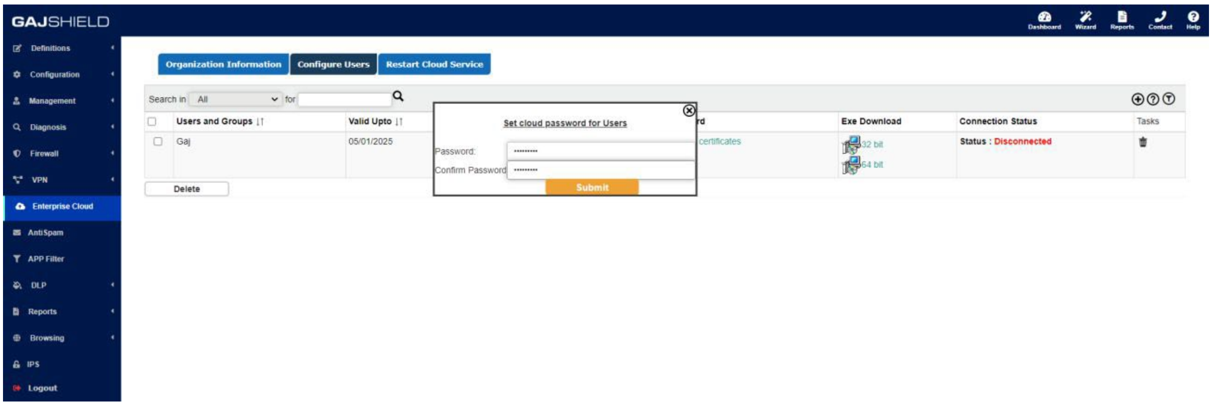
- **Valid Up to:** Set expire date by clicking on for the cloud client, after the said date the cloud client will not be functional.

Note: To add new users or group in clouds Available Users or Available Groups list, add them from Browsing >> Users setting.

6. After adding the user to cloud services, sign the exe by clicking on Click here to sign



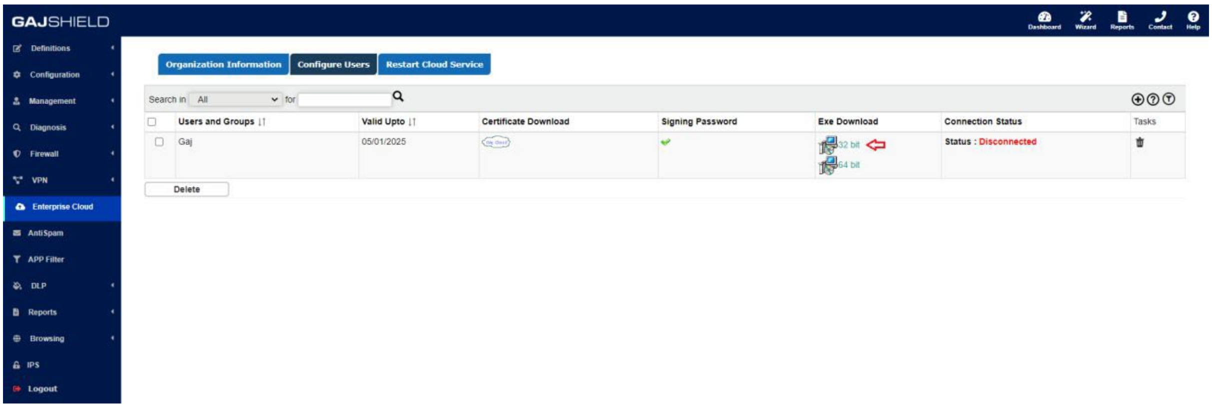
□	Users and Groups ↓↑	Valid Upto ↓↑	Certificate Download	Signing Password	Exe Download	Connection Status	Tasks
□	Gaj	05/01/2025	Gaj Cloud	Click here to sign certificates	32 bit 64 bit	Status : Disconnected	🗑



Set cloud password for Users

Password: ••••••••••

Confirm Password: ••••••••••



□	Users and Groups	Valid Upto	Certificate Download	Signing Password	Exe Download	Connection Status	Tasks
□	Gaj	05/01/2025		✓	32 bit 64 bit	Status : Disconnected	🗑

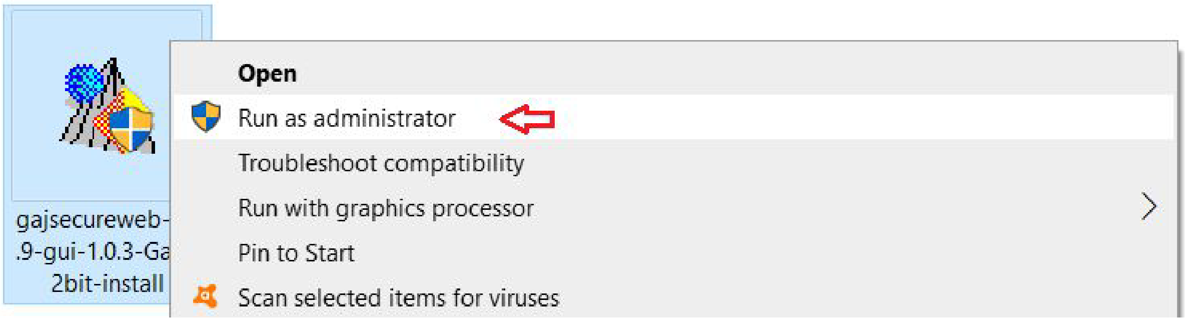
- Insert same password in both the boxes and click on submit.

Note: This password can be used to disconnect or uninstall the cloud client.

Important: Restart Cloud Service, if you make any changes in Organization Information tab.

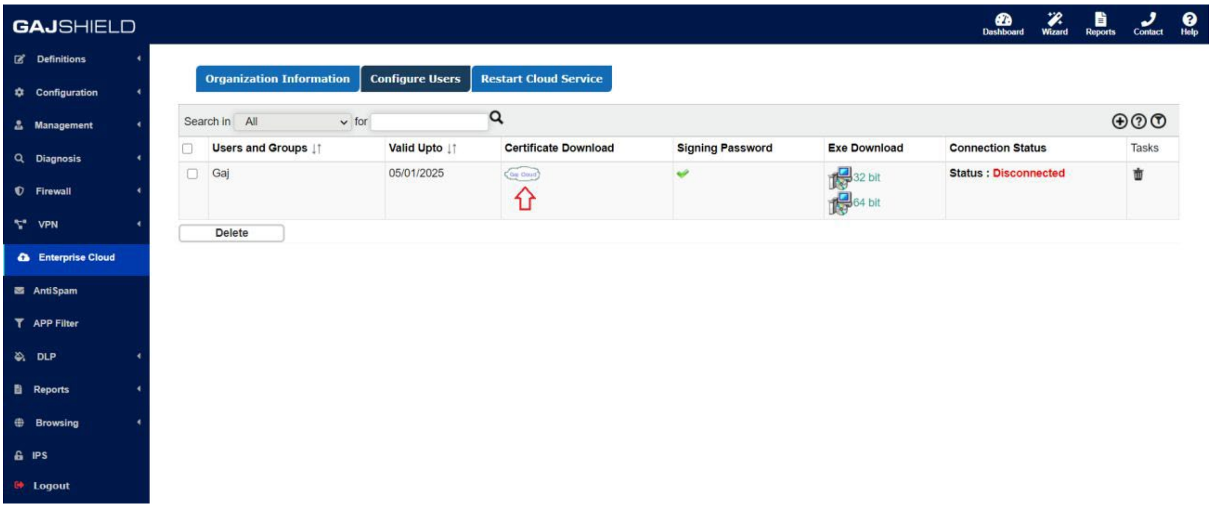
7. Now you can download the cloud client exe by clicking on . If you want to download only the user certificate click on save the zip folder containing 3 files. For example (ca.crt, guest-client.crt, guest-client.key)

Important: Install cloud client on normal user login, & use "Run as Administrator" to install cloud client.

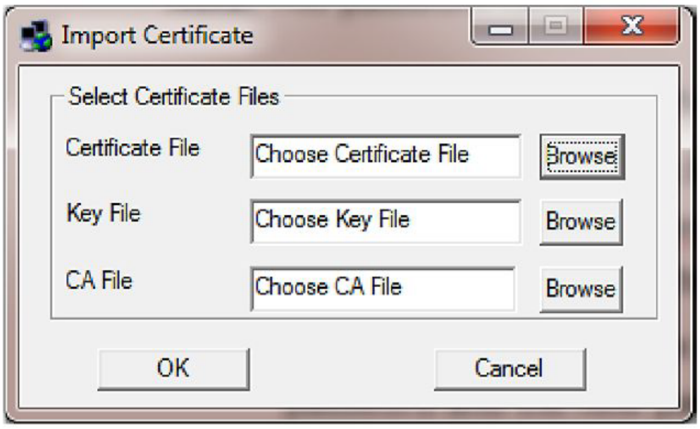

gajsecureweb-
.9-gui-1.0.3-Ga
2bit-install
Open
Run as administrator
Troubleshoot compatibility
Run with graphics processor
Pin to Start
Scan selected items for viruses

8. To change password of the cloud client on users PC, where the cloud client is installed. Right click on cloud icon shown on the right side of your taskbar. Select Change Password, a pop-up will open insert old password and the new password.

9. If you have forgotten the password of the cloud client exe, you will have to re- create the user exe (repeat step 4 & 5) and download the new user certificate from the firewall (see step 6) and not the cloud client exe. Import the 3 files downloaded from the firewall in the respective boxes as shown below.



□	Users and Groups	Valid Upto	Certificate Download	Signing Password	Exe Download	Connection Status	Tasks
□	Gaj	05/01/2025	Gaj Cloud	✓	32 bit 64 bit	Status : Disconnected	



Certificate downloaded from the firewall for example is guest-client.zip, contains 3 files as show below

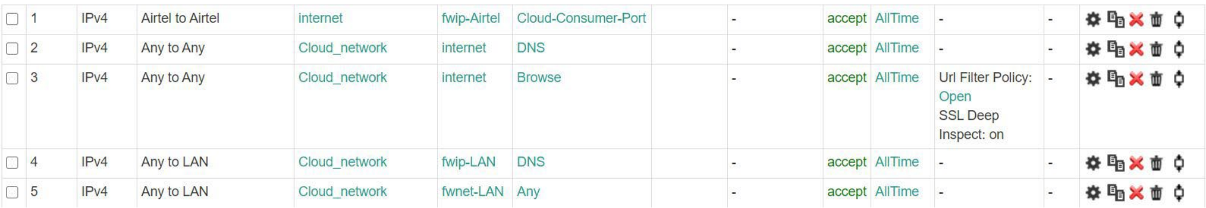
1. ca.crt
2. guest-client.crt
3. guest-client.key

Note: Import the above three files in their respective sections.

- Certificate File: Import “guest-client.crt”
- Key File: Import “guest-client.key”
- CA File: Import “ca.crt”

10. After configuring enterprise cloud, you will need to add firewall policy to allow mobile users to connect to the firewall.

Go to Firewall >> Policies >> Rules and add policies according to your organizations requirements. Show below is an example of firewall policy for cloud client.



□	1	IPv4	Airtel to Airtel	internet	fwip-Airtel	Cloud-Consumer-Port		-	accept	AllTime	-	-
□	2	IPv4	Any to Any	Cloud_network	internet	DNS		-	accept	AllTime	-	-
□	3	IPv4	Any to Any	Cloud_network	internet	Browse		-	accept	AllTime	Url Filter Policy: Open SSL Deep Inspect: on	-
□	4	IPv4	Any to LAN	Cloud_network	fwip-LAN	DNS		-	accept	AllTime	-	-
□	5	IPv4	Any to LAN	Cloud_network	fwnet-LAN	Any		-	accept	AllTime	-	-

You have successfully configured Enterprise Cloud on your firewall.