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How to change from HTTP to HTTPS

Can we use HTTPS for BioStar 2?

Yes, the BioStar 2 support secure communication protocol called HTTPs between the BioStar 2 Server and the BioStar 2 Clients. HTTPs consists of communication over HTTP with encryption of Secure Socket Layer. This will provide protection of the privacy and the integrity of the data exchanged between the BioStar 2 Server and the BioStar 2 Clients.

To enable HTTPS protocol

1. Login the BioStar 2 as an Administrator account.

Bio	Star 2
admin	
	Login

2. Go to **Setting > SERVER**.

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BioStar	BioStar 2 🔞 Setting () About (?) Help							
CASH BOARD	Setting							
Q USER	8	Ø	E		↓			
DEVICE	ACCOUNT	PREFERENCE	CARD	CARD FORMAT	SERVER			
DOCR	6	(IIII)	(M)	\frown				
	TRIGGER & ACTION	SCHEDULE	ALERT	CLOUD				

3. To enable HTTPS protocol, select **HTTPS** for **Web Server Protocol** and then click **Apply**.

 ✓ Server 								
General								
BioStar IP Address	Any			Ŧ	- Log Upload	Automatic		
BioStar Port	51212				Server Upgrade	Automatic		
Session Timeout	60	Min			Web Server Protocol	🔵 HTTP 🛞 HTTPS		
Password Level		Medium						
User/Device Management								
Automatic User Synchronization	All Devices			Ŧ				
Fingerprint Template Format	Suprema			Ŧ				
License								
Standard								
Activate License Online	Name	Activation Key	Activate					
Activate License Offline	Request offline key	Activate						
							Apply	Cancel

4. Open BioStar Setting program (**All programs** > **BioStar 2** > **BioStar Setting**) and make sure that all service is up and running. You may have the port 443 already designated for another application as displayed below and in this case, make sure you assign the unoccupied **HTTPS Port** and then click **Start** to run the service.

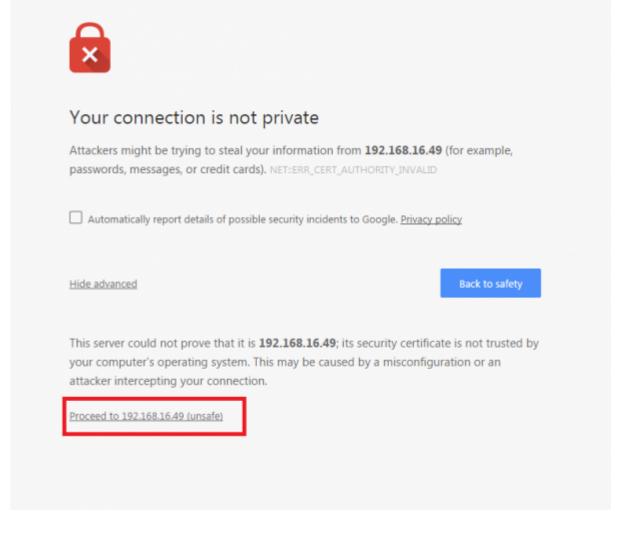
🔯 BioStar Set	ting		X
Service Sta	tus		
B52	The BioStar 2 service has been started.	Running	Stop
	Port 443 in use by "Skype.exe".	Error	Start
-Web Serve	r Configuration		
℀	HTTPS Port 443		

5. Try open the BioStar 2 web page along with the HTTPS port as displayed below.

ttps://192.168.16.49:444	444
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6. The following error page may appear due to the security certificate presented by current BioStar 2 server is not issued by the trusted certificate authority.

If your organization do not have public SSL certificate and want to get rid of the following error message, you can proceed with the following steps to issue a private security certificate using a tool provided by Suprema. Please select Advanced option and click **Proceed to xxx.xxx.xxx(unsafe)** for the temporary access.

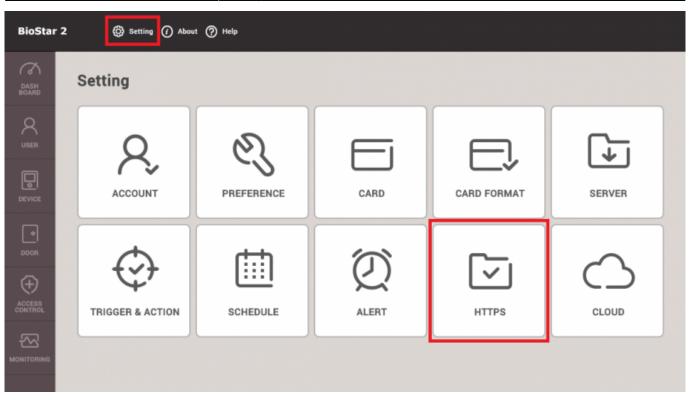


7. Once again, login with the administrator account.

*	BioSta	r 2
admin		
		Login

8. Go to **Setting** > **HTTPS** which is newly created menu when you switch the Web Server protocol to HTTPS.

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9. Click Cert.Download button to obtain a file named cert-register.zip.

+ HTTPS	
Infomation	
In order to use https protocol for BioStar, the certification must be installed. Please download and run certification installation executable before accessing BioStar with https protocol.	
Cert: Dreveleed	

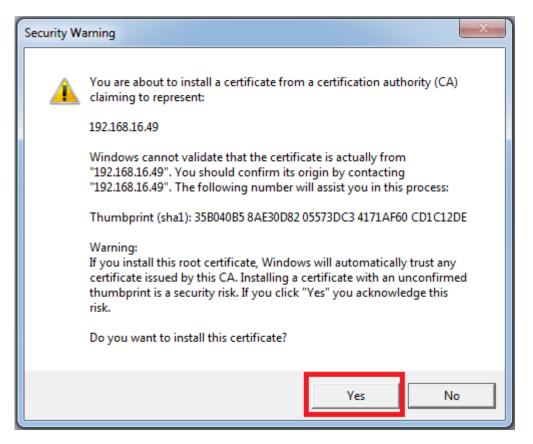
10. Unzip the cert-register.zip and run cert-register.exe file.

Name	Date modified	Туре	Size
Certmgr	12/29/2015 8:10 AM 2/11/2015 4:57 PM	File folder Application	2,211 KB

11. On the **Enrollment Certification** window, please enter the ip address of BioStar 2 server along with the HTTPS port you assigned on step 4 and then click **Enrollment** button.

Enrollment Certification		
Server Address : 192.168.	16.49:444	
	Enrollment	Cancel

12. Read the **Security Warning** message and if you are happy to proceed, please click **Yes**.



13. Once the tool successfully installed the certificate, you will see the following window to complete the process. Please click **OK** to confirm it.



14. To verify the installation, restart the web browser and try open the BioStar 2 web page. Make sure error message you encountered on step 6 is no longer presented.

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