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WORLD SEE

Milestone Systems

XProtect® Rapid REVIEW

Installation and deployment guide



Contents

| | |
|--|----------|
| Copyright, trademarks, and disclaimer | 3 |
| XProtect Rapid REVIEW | 4 |
| Installation and deployment steps | 5 |
| STEP 1 - Installation prerequisites | 5 |
| STEP 2 - Run the installation script | 6 |
| Troubleshooting | 11 |
| STEP 3 - Activate the BriefCam license | 12 |
| STEP 4 - Set up the deployment | 13 |
| STEP 5- Define and activate the cameras | 16 |
| STEP 6 - Disable face recognition and license plate recognition (optional) | 18 |
| STEP 7 - Update the SSO address | 19 |
| STEP 8 - Install BriefCam Embedded Client for Milestone XProtect plug-in | 19 |
| STEP 9 - Using an HTTPS host (optional) | 22 |
| Recommendations | 22 |
| Prerequisites | 23 |
| Steps | 23 |
| Generic configurations | 26 |
| Logging | 27 |

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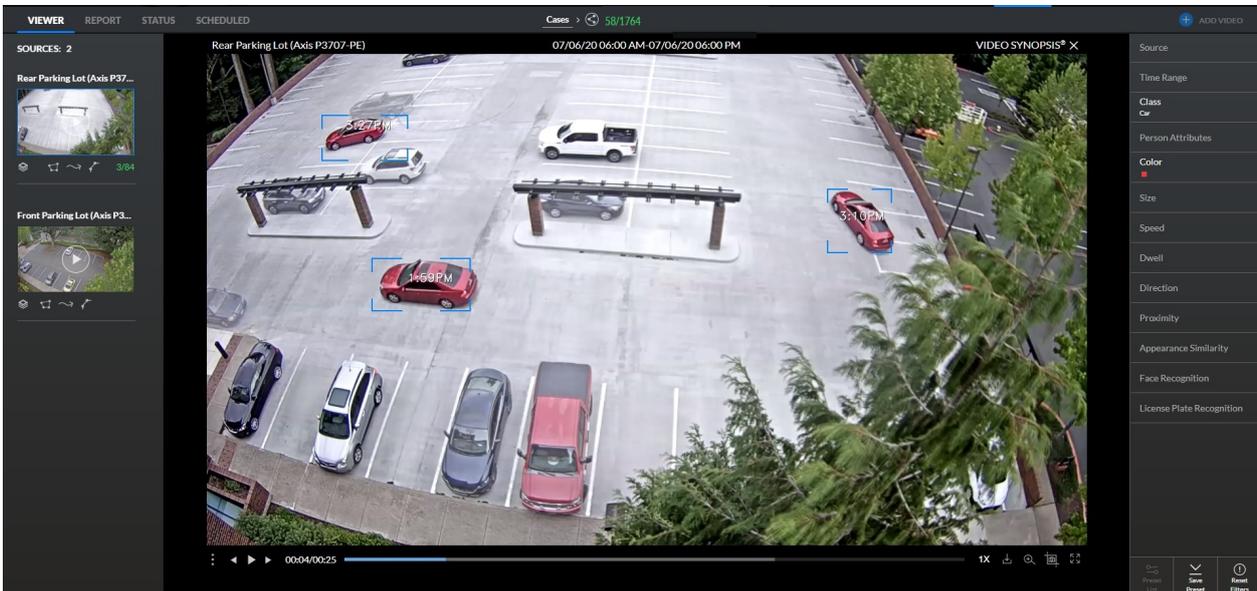
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XProtect Rapid REVIEW

This Installation and deployment guide outlines the installation and deployment of XProtect Rapid REVIEW for rapid time-to-value.

Get started and accelerate investigations with XProtect Rapid REVIEW

- Review hours of video in minutes with VIDEO SYNOPSIS®
- Pinpoint objects of interest with robust multi-camera search capabilities supporting 29 classes and attributes, face recognition, appearance similarity, color, size, speed, path, direction, and dwell time
- Quickly and effectively organize all video assets of an investigation with collaborative case management
- Rapidly visualize activity level, dwell time, common paths and background changes with powerful visual layers



Installation and deployment steps

1. Installation prerequisites
2. Run the installation script
3. Activate the BriefCam license
4. Set up the deployment
5. Define and activate the cameras
6. Disable face recognition and license plate recognition (optional)
7. Update the SSO address
8. Install BriefCam Embedded Client for Milestone XProtect plug-in
9. Using an HTTPS host (optional)

STEP 1 - Installation prerequisites

1. Download a supported version of the [NVIDIA driver](#) (461.72 or higher). For the Tesla family of cards, the supported versions are 461.33 or higher.
2. If the computer is running Windows 10 or Windows Server 2016, download and install [.NET Framework 4.7.2 Runtime](#) or higher. Lastly, another thing that came up in the Tech Training that ought to be mentioned is that the installation may error out if the default system language is not set to English. I'd include this as an Installation prerequisite in section 1. Users can set this back to their preferred system language after installation.
3. Set the default system language to English during the installation. If the language is a language other than English, the installation may end with an error. The system language can be set to any preferred language after the installation.
4. Disable antivirus scans from all BriefCam folders. For more information, see the [Antivirus guidelines](#) from BriefCam.
5. Restart the computer.

STEP 2 - Run the installation script

1. Extract the XProtect Rapid REVIEW package (RapidREVIEW_v6.1.xxxxx.zip)

The extracted folder includes a main folder called **deploy** with the installation script and multiple installer files:

- BriefCam Milestone plug-in
- BriefCam PostgreSQL
- BriefCam Server
- BriefCam Web Services



Note: You do not need to run any of the installers. The installation script automatically installs XProtect Rapid REVIEW for you.

- If you want to change the target directory for a server application or its associated data from C:// to a different location, open the **config.json** file (located in the **deploy** folder) and change the paths that are highlighted in the illustration below.

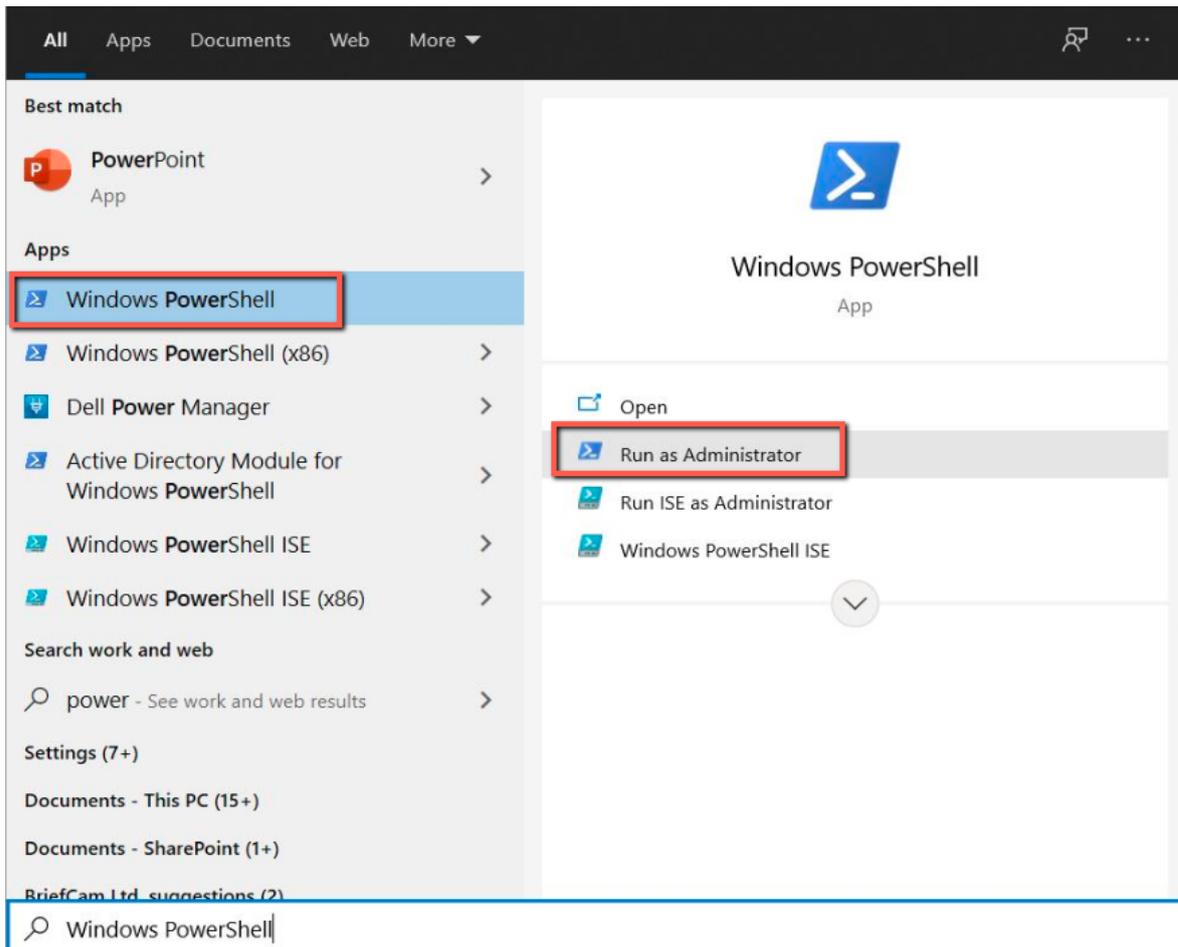
```
{
  "common": {
    "bc_domain": null,
    "shared_directory": {
      "host": "localhost",
      "parent_directory": "c:\\",
    },
    "file_server_host": "10.0.0.101",
    "file_server_port": 8000
  },
  "hosts": {
    "localhost": {
      "components": {
        "db": {
          "pkg_name": "BriefCamPostgreSQL_6.1.32338.exe",
          "parameters": {
            "DB_INSTALLDIR": "C:\\PostgreSQL",
            "POSTGRES_PORT": 5432,
            "POSTGRES_DATA_DIR": "C:\\PostgreSQL Data",
            "APPDIR": "C:\\Program Files\\Briefcam\\Briefcam PostgreSQL"
          }
        },
        "web_services": {
          "pkg_name": "BriefCamWebServices_6.1.32338.exe",
          "parameters": {
            "APPDIR": "%env:ProgramFiles\\briefcam\\BriefCam Web Services",
            "WS_HOST": "%env:computername",
            "WS_PORT": 80,
            "LICENSE_SERVER_ADDR": "%env:computername",
            "USAGE_DATA_SETTINGS": "false"
          }
        },
        "server": {
          "pkg_name": "BriefCamServer_6.1.32338.exe",
          "parameters": {
            "APPDIR": "c:\\Program Files\\briefcam\\BriefCam Server",
            "NOTIFICATION_PORT": 7080,
            "VIDEOGATEWAY_PORT": 5010,
            "IS_VIDEO_STREAMING": "YES"
          }
        }
      }
    }
  }
}
```

| Parameter | Description |
|---------------------|---|
| "parent_directory" | Location where video files and processing artifacts will be stored. |
| "DB_INSTALLDIR" | Location where the Postgres SQL database will be installed. |
| "POSTGRES_DATA_DIR" | Location where Postgres SQL data and scripts are stored. |
| "APPDIR" | Location where the application files will be installed. |

- If a domain user is required, set the domain name itself in the config file (config.json):

"bc_domain:"user-domain-name"

4. Open Windows PowerShell 64 bit as an Administrator.



5. Run the following PowerShell command to enable running remote signed scripts:

```
Set-ExecutionPolicy RemoteSigned
```

6. When asked if you want to change the execution policy, type in **a** and press **Enter**.
7. Open the **deploy** installation folder:

```
cd [your extracted folder]\deploy
```

8. Set seven variables by running each of the below commands separately. Replace the text in quotation marks (" ") with your values. Note that all of the strings should only have whole numbers and/or English letters:

| Command | Description |
|--|--|
| <code>\$env:BC_USR="USER_NAME"</code> | The user that runs BriefCam services. |
| <code>\$env:BC_PWD="USER_PASSWORD"</code> | The user's password. |
| <code>\$env:PG_BC_USR="PG_BC_USR"</code> | The BriefCam application user for the PostgreSQL database. This cannot be the same as the PG_BC_ADMIN_USR mentioned below. |
| <code>\$env:PG_BC_PWD="PG_BC_PWD"</code> | The password of the user above (PostgreSQL user). |
| <code>\$env:PG_BC_ADMIN_USR="PG_BC_ADMIN_USR"</code> | The root admin user for the PostgreSQL database. This cannot be the same as the PG_BC_USR mentioned above. |

| | |
|--|--|
| <code>\$env:PG_BC_ADMIN_PWD="PG_BC_ADMIN_PWD"</code> | The password of the user above (PostgreSQL root admin user). |
| <code>\$env:BC_PASS_PHRASE = "Welcome1"</code> | This pass phrase will be used to generate an encryption key to secure connection strings and other sensitive data. |

For the most reliable performance, the user that runs BriefCam services, the **BC_USR**, should be part of the **Administrators** role in XProtect Management Client and additionally, this user should have local administrator rights on the server where the deployment is performed.



If a user that runs BriefCam services logs on using the **Windows authentication (current user)** option and this user is not part of the **Administrators** role in XProtect Management Client, authentication in BriefCam via the Briefcam Milestone SSO provider might fail. The failure to authenticate will have the effect that the **BriefCam** tab in XProtect® Smart Client will load without content.

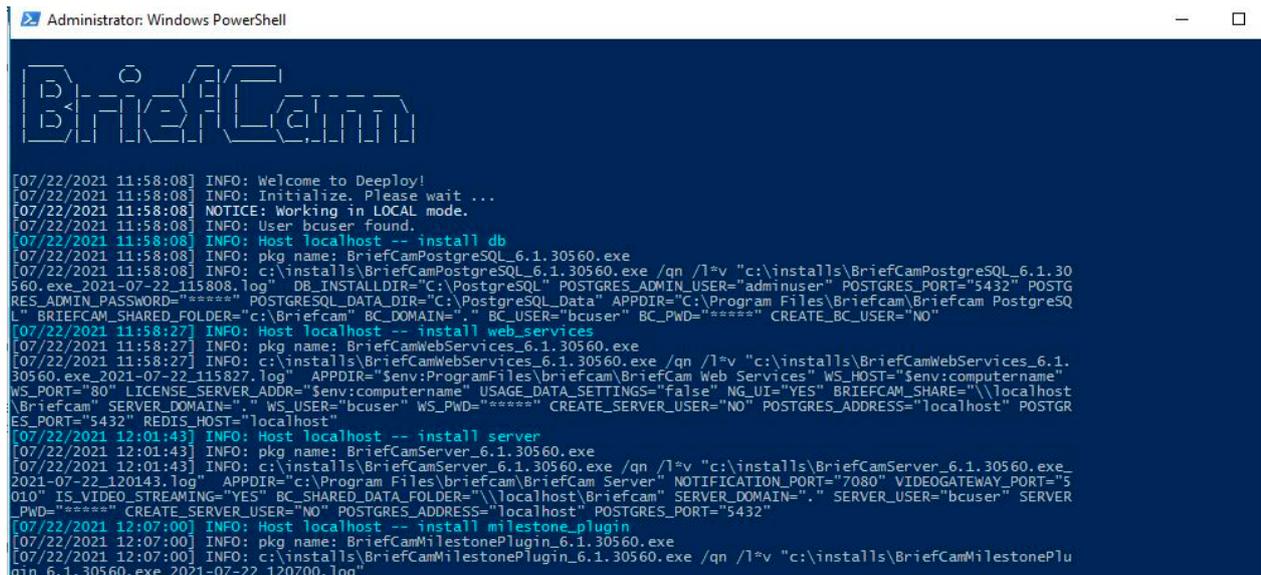
9. Run the following command to start the installation:

```
.\deploy.ps1 -local
```

For example:

```
C:\RapidReview\deploy> .\deploy.ps1 -local
```

The installation may take 10-25 minutes.



Troubleshooting

If an error occurs, the error appears in the screen above and in the **deploy.log** and **deploy-trace.log** files, which are located in the **deploy** directory.

If you receive the following error, you ran the wrong version of PowerShell:

```
ERROR: The term 'get-localuser' is not recognized as the name of a cmdlet, function, script file or operable program. Check the spelling of the name, or if a path was include, verify that the path is correct and try again.
```



If the installation failed:

1. Investigate the log files (deploy.log and deploy-trace.log) and fix the issue.
2. Reinstall BriefCam:
 - a. Run the following command in PowerShell to remove all installation components:

```
.\deploy.ps1 -uninstall -local -purge
```

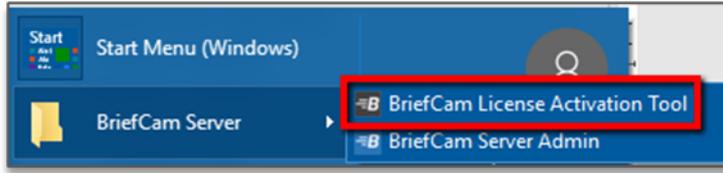
For example:

```
C:\RapidReview\deploy> .\deploy.ps1 -uninstall -local -purge
```

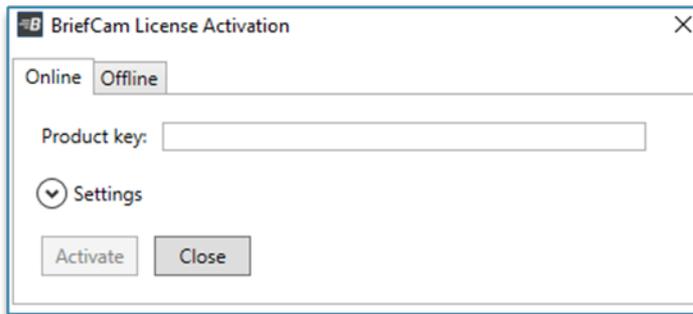
- b. Rerun the installation script.

STEP 3 - Activate the BriefCam license

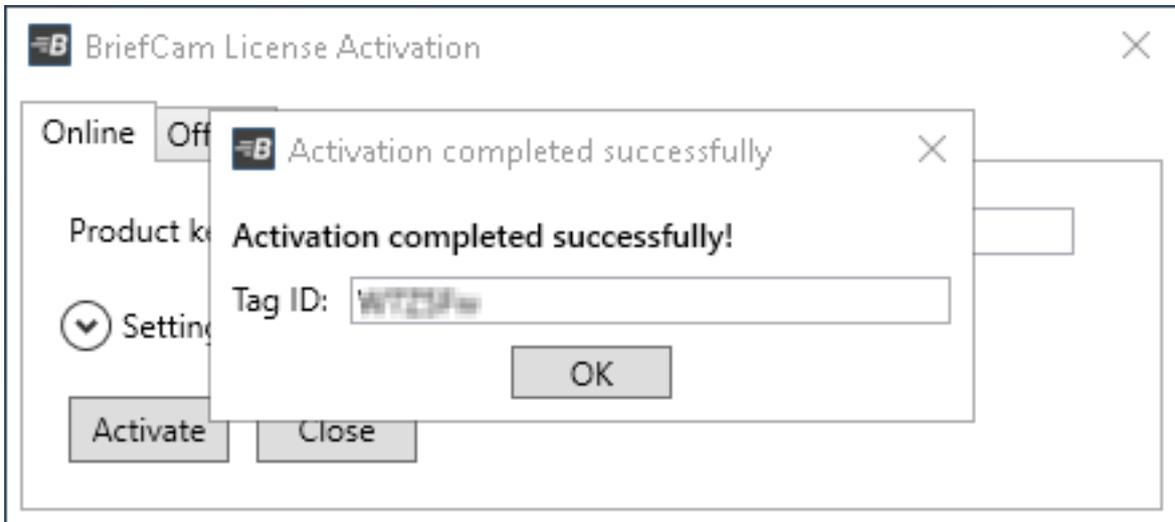
1. On the XProtect Rapid REVIEW computer, launch the BriefCam License Activation application from the **Start** menu.



2. Enter the product key that you received from BriefCam, and click **Activate**.



3. Upon successful activation, the following dialog box will appear.

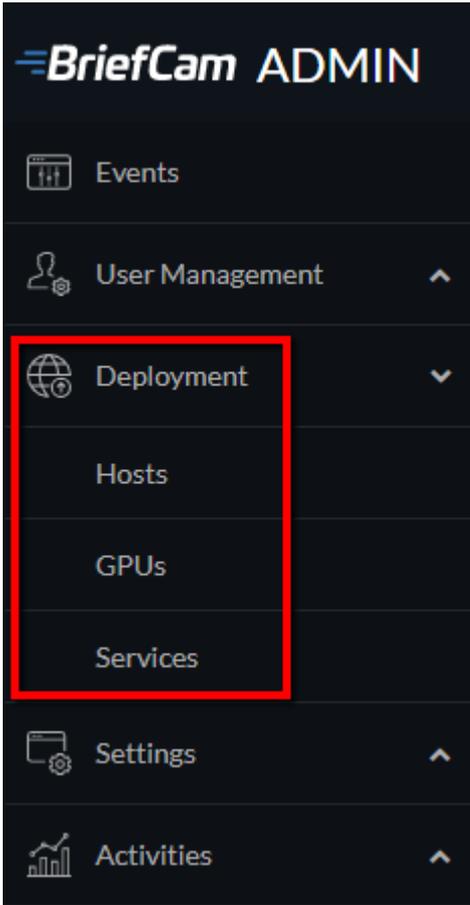


4. Click **OK** to close the dialog box, and then click **Close** in the main application window to close the License Activation application.

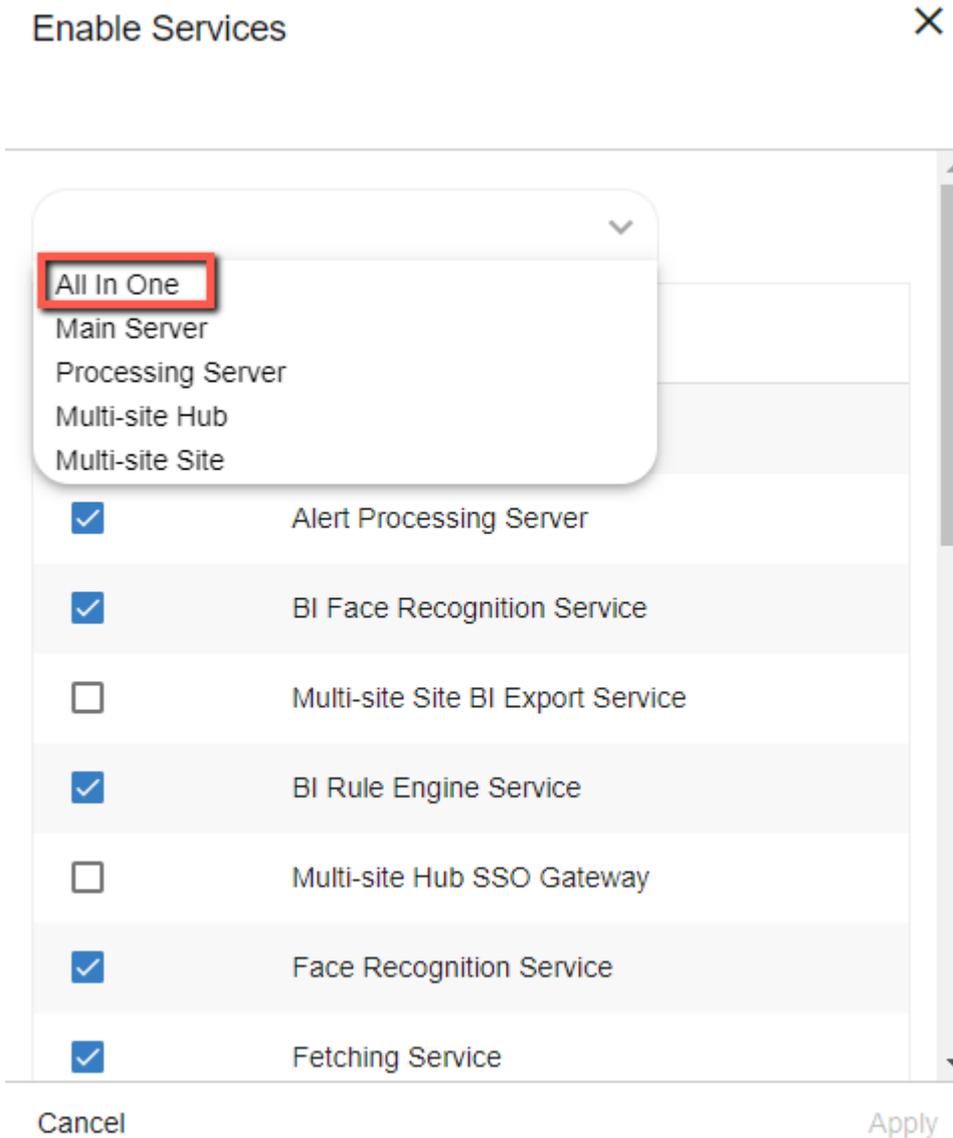
STEP 4 - Set up the deployment

1. In a browser, enter the URL of the computer where XProtect Rapid REVIEW was installed followed by slash (/) and the word **admin**, that is: **http://[computer name]/admin**. The BriefCam Administrator Console will open.
2. Log into the console. The user is **Administrator** and the password is **changeit**.
3. Change the password.

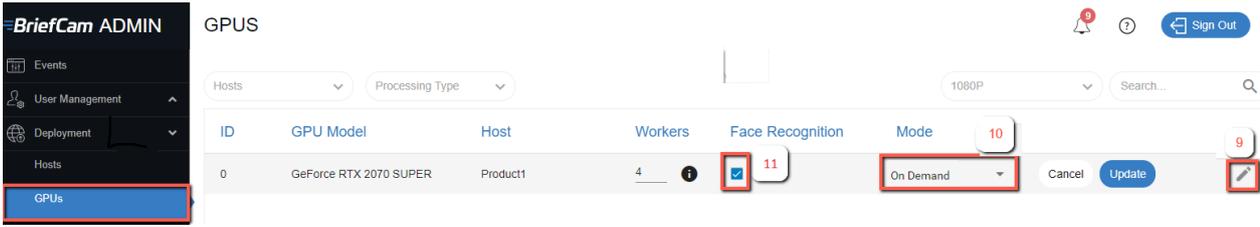
You'll now set up the deployment from the **Deployment** section.



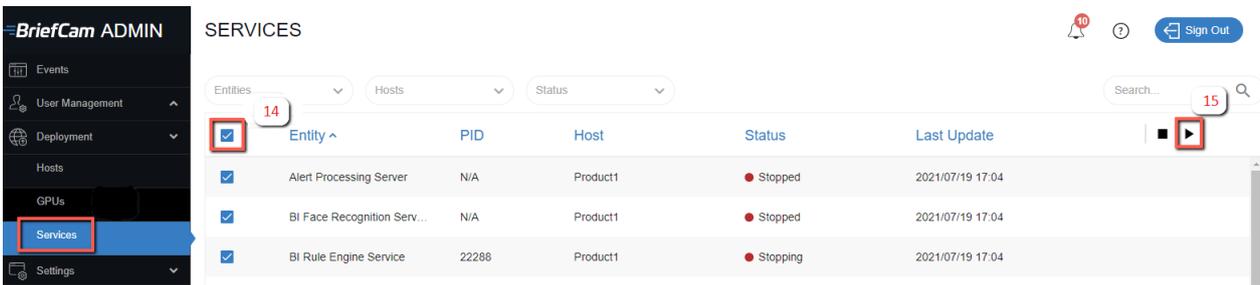
4. From the **Deployment** section, click **Hosts**.
5. Next to the host name, click on the settings icon .
6. From the **Templates** menu, select **All In One**, and click **Apply**.



7. Clear the **Alert Processing Server**, **BI Face Recognition Service**, and **BI Rule Engine Service** check boxes.
8. From the **Deployment** section, click **GPUs**.
9. Click on the edit icon ().
10. In the **Mode** column, select **On Demand**.
11. If face recognition will be used, select the **Face Recognition** check box.

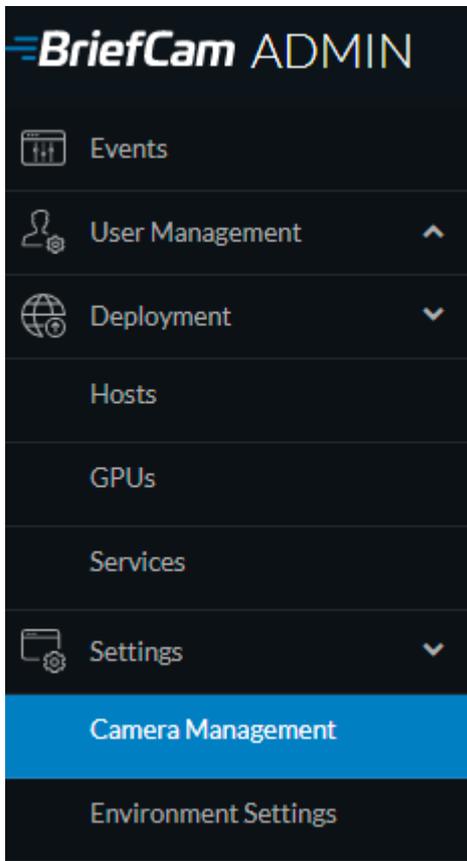


- 12. Verify that the number of workers under **Workers** is set to 4.
- 13. From the **Deployment** section, click **Services**.
- 14. Select the check box at the top left of the table.
- 15. Click the start button (as shown in the image below).



STEP 5- Define and activate the cameras

1. Open the **Settings** section and click **Camera Management** (as shown in the image below).



2. Click **Add directory**. The **Add Directory** dialog box opens.

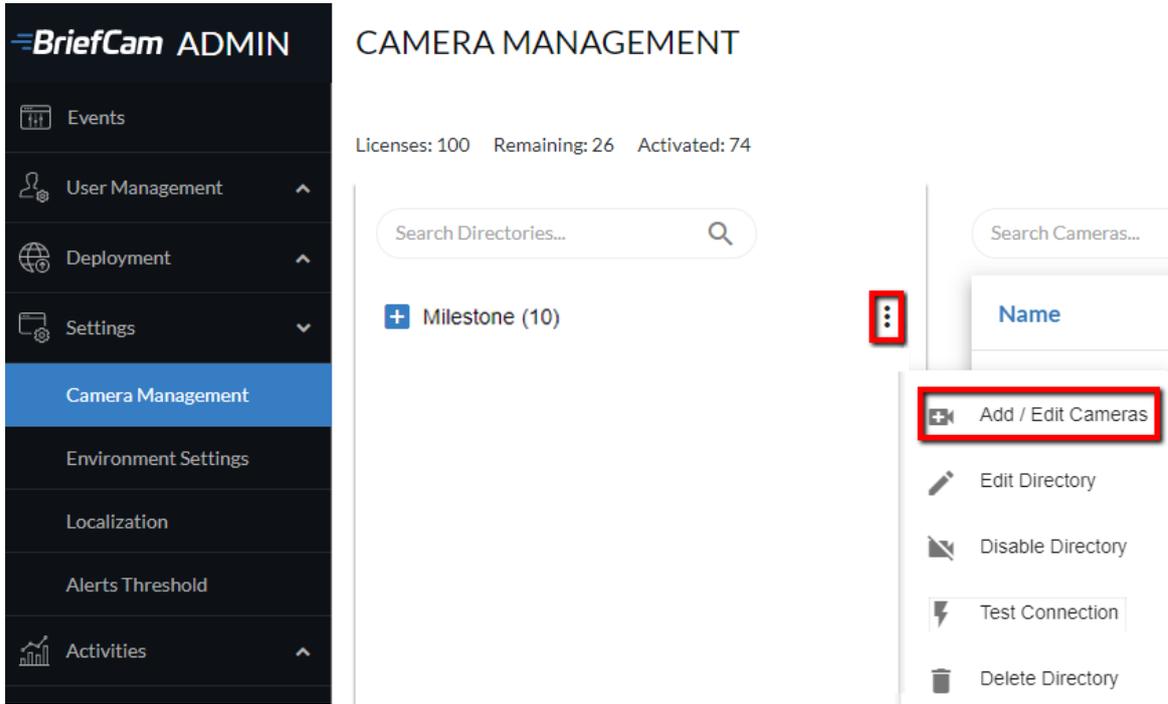
The screenshot shows a dialog box titled "Add Directory" with a close button (X) in the top right corner. Below the title bar, it says "Fill in the fields below". There are five input fields:

- Video Integration ***: A dropdown menu with "Milestone Integration" selected.
- Directory Name ***: A text field containing "Milestone".
- Address ***: A text field containing "[VMS IP Address]".
- User Name ***: A text field containing "admin".
- Password**: A text field with masked characters "****".

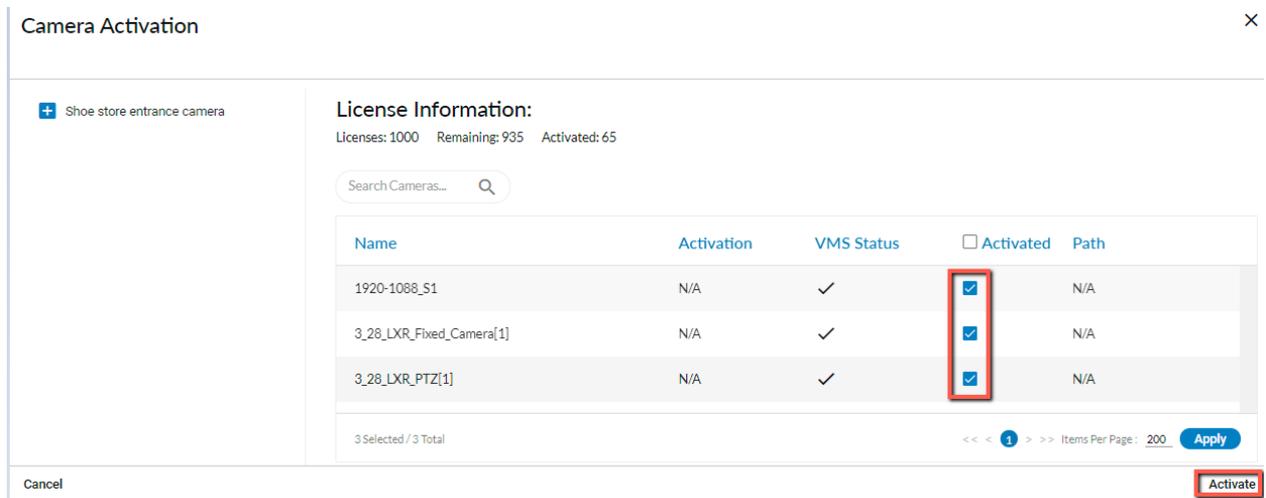
At the bottom of the dialog, there are two buttons: "Cancel" on the left and "Add" on the right.

3. From the **Video Integration** field, select **Milestone Integration**.
4. In the **Directory Name** field, enter a display name for the user directory.
5. In the **Address** field, enter the address of the Milestone VMS server.
6. In the **User name** and **Password** fields, enter an administrator user name and password of the VMS server. With an admin user you can make sure that all cameras can be accessed.
7. Click **Add** to add the directory.

- Click the zoom (⋮) icon to the right of the new directory and select the **Add / Edit Cameras** option.



- For all of the cameras, select the check box in the camera's **Activated** column and click the **Activate** button (located in the bottom right corner), as shown in the image below.



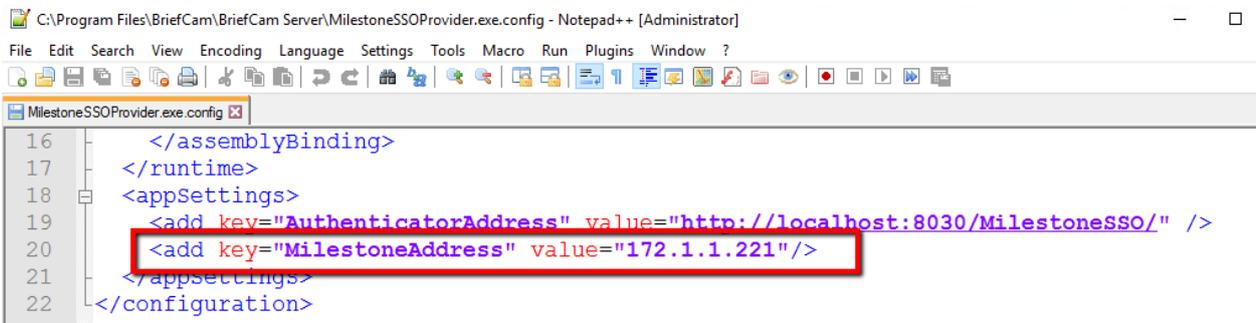
STEP 6 - Disable face recognition and license plate recognition (optional)

If you want to disable face recognition and/or license plate recognition:

1. Set the **clientEnableFaceRecognition** environment setting to **false**. This removes the Face Recognition functionality from the UI.
2. Set the **MetaData.EnableFaceRecognition** environment setting to **false**. This disables the Face Recognition engine.
3. Set the **EnableLPR** environment setting to **false**. This removes the License Plate Recognition functionality from the UI.

STEP 7 - Update the SSO address

1. On the XProtect Rapid REVIEW computer, go to C:\Program Files\BriefCam\BriefCam Server and open the MilestoneSSOProvider.exe.config file.
2. Edit the **MilestoneAddress** setting with the IP address of the Milestone VMS server.



```
C:\Program Files\BriefCam\BriefCam Server\MilestoneSSOProvider.exe.config - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
MilestoneSSOProvider.exe.config
16 </assemblyBinding>
17 </runtime>
18 <appSettings>
19 <add key="AuthenticatorAddress" value="http://localhost:8030/MilestoneSSO/" />
20 <add key="MilestoneAddress" value="172.1.1.221" />
21 </appSettings>
22 </configuration>
```



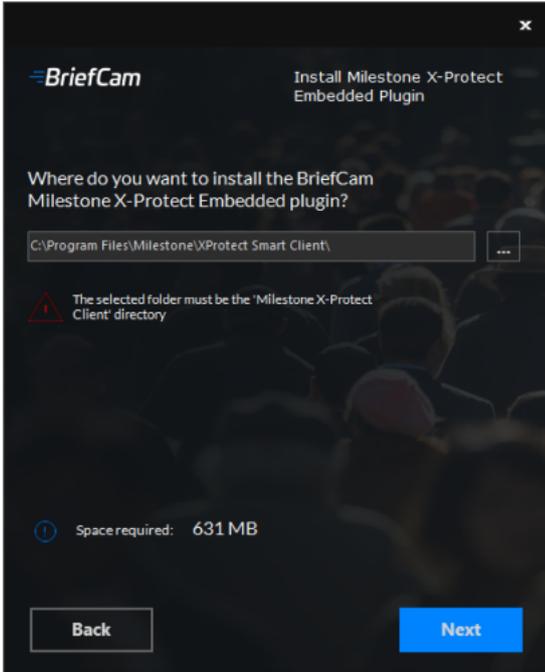
Note: If STEP 7 is performed later, you will need to restart the IIS services.

STEP 8 - Install BriefCam Embedded Client for Milestone XProtect plug-in

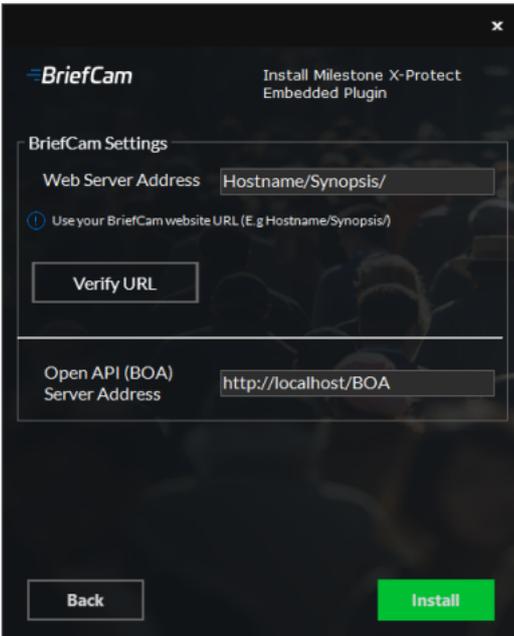
On each XProtect Rapid REVIEW client computer, install BriefCam’s embedded client for Milestone XProtect plugin.

1. Click the **BriefCam Embedded Client for Milestone XProtect** plug-in file to download it and then run it.
2. The installation checks for prerequisites, such as Microsoft .NET Framework 4.7.2 Full and Microsoft Visual C++ 2015 2017 2019 Redistributable Package (x64).
3. If anything is missing, you will be prompted to install the missing prerequisites and click **Install**.
4. In the Welcome screen, click **Get Started**.
5. Read the license, accept the License Agreement terms and click **Next**.
6. Select the installation destination path and click **Next**.

Note that the installation path must be the same directory where **Milestone XProtect Smart Client** is installed. (This may vary slightly between client computers and between Milestone versions.)

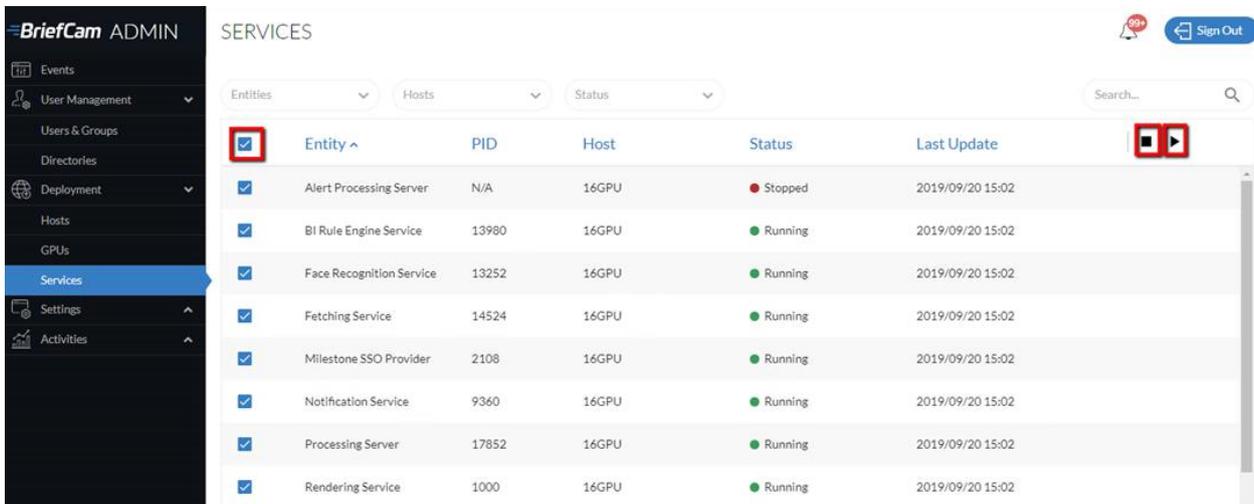


7. Enter the BriefCam Web Application URL (which is the address of the BriefCam computer followed by **/synopsis** and verify that the provided URL is correct by clicking the **Verify URL** button (as shown below).



8. In the **BriefCam Open API (BOA) Server Address** field, enter the address of the BriefCam computer followed by **/BOA**.
9. Click **Next**.
10. Click **Install** and then click **Finish**.

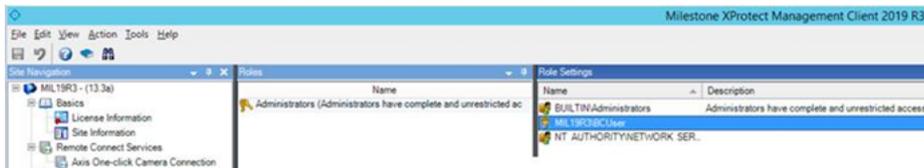
- In the BriefCam Administrator Console, restart the services by selecting all of the services, clicking the stop button (■) and then the start button (▶), as shown in the image below.



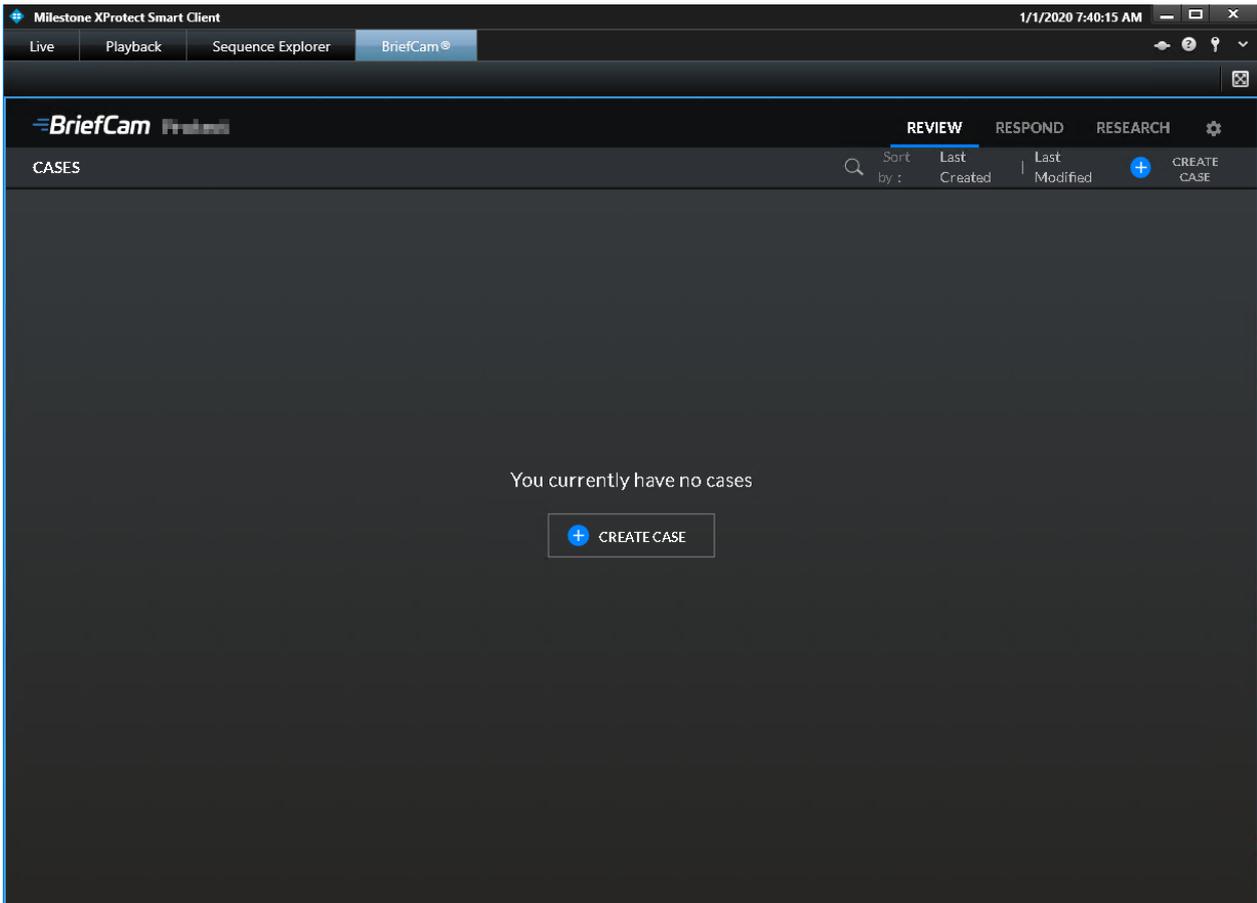
- Restart IIS by opening the Windows services and right-click the **World Wide Web Publishing Service**. Then click **Restart**.

 Note: An admin user is automatically created by the SSO when logging into the Milestone client using the **Basic authentication** or **Windows authentication** method.

If you want to log into the Milestone client using the **Windows authentication (current user)** option, add the **BriefCam user** (by default this is **BCUser**) to the **Administrators** group in Milestone XProtect Management Client.



When you have completed the steps, a **BriefCam** tab will appear in the Milestone XProtect Smart Client.



In BriefCam, for security reasons, users are automatically logged out if no activity is detected for 20 minutes. Therefore, a user may be automatically logged off the BriefCam functionality while the Milestone VMS is still running.

STEP 9 - Using an HTTPS host (optional)



To work with SSL and BriefCam, using a load balancer is required.

This section describes the steps to take to use the NGINX load balancer as an https host for BriefCam services.

Recommendations

BriefCam recommends using NGINX.

It is recommended to install the load balancer on a separate computer.

If you are working in a virtualized environment, the load balancer must be on a separate computer.

If you are working in a non-virtualized (physical servers) environment, you can have the load balancer on the same computer as the Web Services (although it is not recommended). However, if you install the load balancer on the same computer as the Web Services, IIS must be on a different port than port 80, since port 80 is for NGINX.

Prerequisites

- Make sure that port 80 is not in use by another application.
- If IIS is installed, make sure to stop it or change its default port.

Steps

1. Download NGINX 1.19.x load balancer or later from this link: <http://nginx.org/en/download.html>.
2. Extract the NGINX zip files to drive C:. It is important to have the NGINX extracted so that the path is: **C:\NGINX**.
3. Create or use an already created self-signed certificate separated into two files: .crt and .key:

For information about how to create a certificate, see one of these links:

- <https://slproweb.com/products/Win32OpenSSL.html>
- <https://helpcenter.gsx.com/hc/en-us/articles/115015960428-How-to-Generate-a-Self-Signed-Certificate-and-Private-Key-using-OpenSSL>
- https://www.akadia.com/services/ssh_test_certificate.html

To use an already created certificate from the current folder, place both the certificate's .crt and .key files in the following path: **C:\NGINX\certificates**.

4. Download the **nginx.conf** file from: <https://bcftpuser:BCreleases01!@bcftp.briefcam.com/nginx/nginx.conf> and save it to **c:\nginx\conf** (replacing the existing file).
5. In the **nginx.conf** file's **http** section, modify the server name where the components are running (web services, notification services, and Video Streaming Gateway Services).
6. If you have multiple nodes of a service, add a semicolon (;) after the first node and add a second row with the name of the second node. In the example below, there are two Web Services nodes.

| Original | Example |
|---|--|
| <pre> 16 17 http { 18 include mime.types; 19 default_type application/octet-stream; 20 client_max_body_size 1500M; 21 proxy_read_timeout 300; 22 proxy_connect_timeout 300; 23 proxy_send_timeout 300; 24 25 map \$http_upgrade \$connection_upgrade { 26 default upgrade; 27 '' close; 28 } 29 30 # Notification service 31 upstream notification-backend { 32 server briefcam-server:7080; 33 } 34 35 # Video Streaming service 36 upstream video-streaming-backend { 37 server briefcam-server:5010; 38 } 39 40 # Pro Web Client Servers 41 upstream briefcam-webservices-backend { 42 server briefcam-server; 43 } </pre> | <pre> 16 17 http { 18 include mime.types; 19 default_type application/octet-stream; 20 client_max_body_size 1500M; 21 proxy_read_timeout 300; 22 proxy_connect_timeout 300; 23 proxy_send_timeout 300; 24 25 map \$http_upgrade \$connection_upgrade { 26 default upgrade; 27 '' close; 28 } 29 30 # Notification service 31 upstream notification-backend { 32 server SynopsisServer:7080; 33 } 34 35 # Video Streaming service 36 upstream video-streaming-backend { 37 server SynopsisServer:5010; 38 } 39 40 # Pro Web Client Servers 41 upstream briefcam-webservices-backend { 42 server WS1; 43 server WS2; 44 } </pre> |

7. In the `nginx.conf` file's **BriefCam System using SSL certificate** section you set up HTTPS as follows:
 - a. In the `server_name` node, replace `www.example.com` with the address of the load balancer.
 - b. Comment the `alias` node by adding an ampersand (`#`) at the beginning of the row.
 - c. In the `ssl_certificate` row, enter the full path to the `.crt` file including the file name.
 - d. In the `ssl_certificate_key` row, enter the full path to the `.key` file including the file name.

| Original | Example |
|---|---|
| <pre> 68 # Redirect all http traffic to https (except Processing Gateway) 69 # BriefCam System using HTTP (not secured) 70 server { 71 listen 80; 72 server_name www.example.com example.com; 73 alias research.example.com; 74 75 location / { 76 rewrite ^ https://\$host\$request_uri? permanent; 77 } 78 79 location /VideoProcessingGateway/ { 80 proxy_set_header Host \$host; 81 proxy_pass http://briefcam-webservices-backend; 82 } 83 } 84 85 # BriefCam System using SSL certificate (Recommended) 86 server { 87 listen 443 default_server ssl; 88 server_name www.example.com example.com; 89 alias research.example.com; 90 91 ssl_certificate C:\NGINX\certificates\example.crt; 92 ssl_certificate_key C:\NGINX\certificates\example.key; 93 } </pre> | <pre> 68 # Redirect all http traffic to https (except Processing Gateway) 69 # BriefCam System using HTTP (not secured) 70 server { 71 listen 80; 72 server_name LoadMachine; 73 #alias research.example.com; 74 75 location / { 76 rewrite ^ https://\$host\$request_uri? permanent; 77 } 78 79 location /VideoProcessingGateway/ { 80 proxy_set_header Host \$host; 81 proxy_pass http://briefcam-webservices-backend; 82 } 83 } 84 85 # BriefCam System using SSL certificate (Recommended) 86 server { 87 listen 443 default_server ssl; 88 server_name LoadMachine; 89 #alias research.example.com; 90 91 ssl_certificate C:\NGINX\certificates\certificate.crt; 92 ssl_certificate_key C:\NGINX\certificates\privateKey.key; 93 } 94 </pre> |

8. Download the latest release of the NSSM zip files from this link: <https://nssm.cc/download> and place them on the load balancer computer.
9. Extract the NSSM zip file to a folder, for example: `C:\NSSM`.

10. Open CMD as **administrator**, navigate to the new **NSSMwin32** folder and run the following commands:

- nssm install NGINX "C:\nginx\nginx.exe"
- nssm set NGINX AppDirectory C:\nginx
- nssm set NGINX DisplayName "NGINX Web Server"
- nssm set NGINX Description "NGINX Web Server"
- nssm set NGINX Start SERVICE_AUTO_START



In the examples below, replace the string **www.example.com** with the address of the load balancer.

For example: Load balancer = LB01.briefcam.com.

11. On any host that is running the application (browser), make sure the domains (or host name) can be resolved by the DNS. If no DNS is available, you can edit the **hosts** file and add the IP address of the load balancer using the following syntax:

- 10.x.x.x www.example.com

For example: 10.0.0.143 www.example.com

12. Restart the load balancer computer, open **services.msc** and try to start the newly created **NGINX Web Server** service.

- If the service does not start, there may be an issue with its path. To try and solve this issue, run NSSM install on the same folder as described under step 8 and define the service via the NSSM GUI (making sure to specify the parameters properly).

13. Edit both web config .js files on the BriefCam server (located at C:\Program Files\BriefCam\WebServices\ProWebClient\webConfig.js and C:\Program Files\BriefCam\WebServices\ProWebAdminClient\web.config.js) using the syntax below. This syntax refers to the load balancer address. The endpoints in both files must point to the load balancer.

- //www.example.com/ProWebApi/
- //www.example.com/AdminApi/

14. In the BriefCam Administrator Console, set the environment settings with the following values:

- DB.LocalStorageAddress : "//www.example.com/ProWebApiStorage"
- BaseVideoUrl: "https://www.example.com/vsg"
- ClientNotificationEndPoint: "//www.example.com/signals" (without port 7080)



VideoProcessingGatewayUrl in https is **not** supported.



VideoProcessingGateWayUrl will use **http** and not **https** because it is communicating between two internal processes (real-time engine and Video Processing gateway web service). This is on purpose to save resources.

15. You now need to update certain parameters, so that the embedded client will reach BriefCam using an HTTPS protocol. In order to do this:

- a. Open the **BriefCam.MilestoneEmbeddedViewer.dll.config** file, which is located at: C:\Program Files\Milestone\XProtect Smart Client\MIPPlugins\BriefCam.
- b. Change the URLs (highlighted below) to include HTTPS:

```
<appSettings>
<!--Client site address-->
<add key="serverAddress" value="https://SMB29/Synopsis" />
<!--Boa site address-->
<add key="boaServerAddress" value="https://SMB29/BOA" />
<!--add key="boaVersion" value="1.0" /-->
<!--add key="keepAliveIntervalMS" value="60000" /-->
<!--add key="httpTimeout" value="5000" /-->
<!--add key="pageLoadTimeoutMS" value="1000" /-->
<!--add key="BrowserLogLocation" value="c:\DotNetBrowserLog.txt" /-->
</appSettings>
```

16. Browse to the application and make sure that it works with https requests.

For example:

- <https://www.example.com/synopsis>
- <https://www.example.com/admin>

Generic configurations

For any other type of load balancer, you need to configure the following redirect rules based on the URL:

1. Notification Service

Search for: /signalr

Redirect to: notification-server:7080

2. Video Streaming Gateway

Search for: /vsg

Use rewrite rule to remove /vsg from the url

Redirect to: videostreaming-server:5010

3. Web Services>

Search for: /

Redirect to: briefcam-webserver

Logging

To handle the log rotation:

1. Download the log rotation text from here: [Log rotation script](#) and create a bat file:
 - a. Copy the text from the link to a .txt file and name it LogRotation.
 - b. Change the file extension from .txt to .bat.
2. Save the script (.bat file) to **C:\NGINX**.
3. Create an OS user (such as **bcuser**), a user on the OS level, or create a Windows user account. The user does not need admin rights.
4. Edit the **C:\NGINX** folder's security options and assign full control to the user that you created in step 3.
5. Click **Start** (Windows key) and type **secpol.msc** to open the **Local Security Policy** utility.
6. Go to **Security settings > Local Policies > User Rights Assignment**.
7. Right-click **Log on as a batch job** and add the user.
8. Add a daily scheduled task to run the **C:\NGINX\LogRotation.bat** file. Make sure to select **Run whether user is logged on or not**. By default, the last 10 days will be retained (retention period in days). If you want a different number of days, when running the batch file, enter the required number of days as a command line argument. For example, for 20 days, use: **C:\NGINX\LogRotation.bat 20**.

