



How to set up the GV-Failover Server with 2 GV-VMS Systems

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Applied to

GV-VMS

GV-Failover Server

Summary

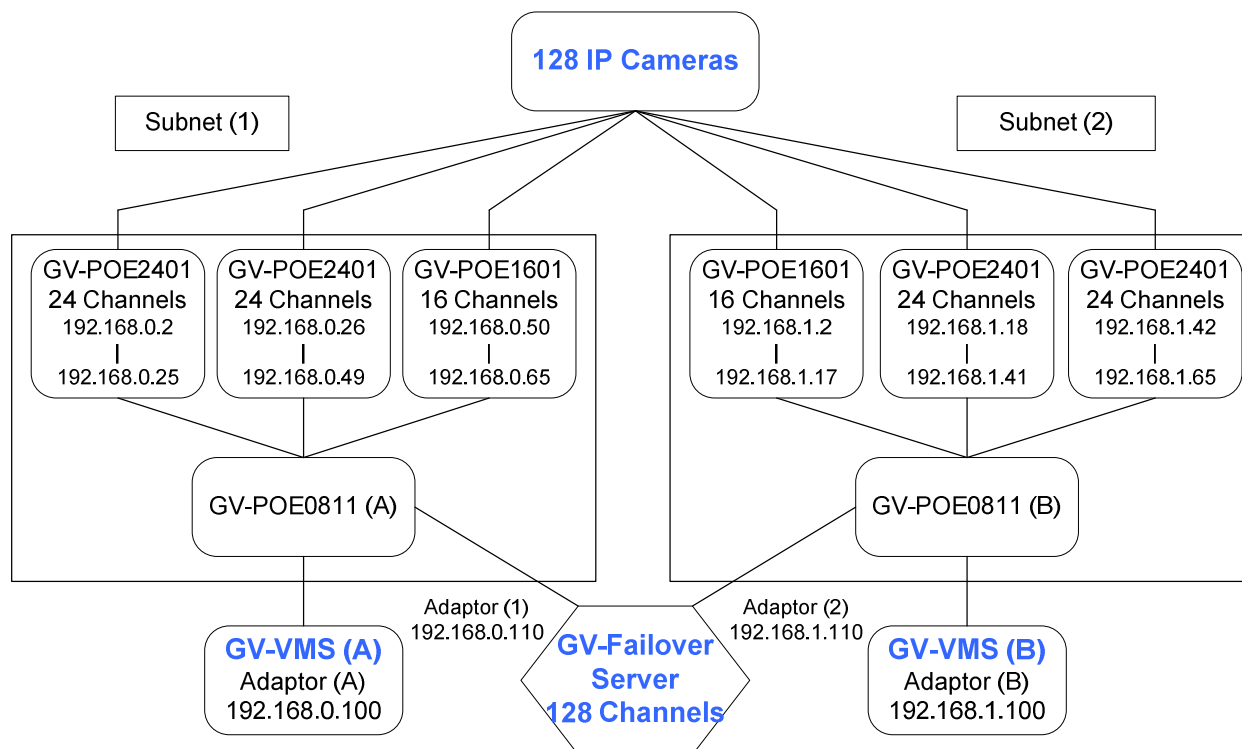
This document covers the basic instructions on setting up the GV-Failover Server. A GV-Failover Server can support up to 128 IP Cameras channels, which are two 64-channel GV-VMS at the maximum. For optimal performance and processing efficiency, use two Gigabit network connections, each assigned with 64 channels and run through a separate network. Follow the steps below to install the GV-Failover Server and connect the 2 64-channel GV-VMS to the server.

Required Items for Installing GV-Failover Server
GV- Failover Server x 1, with 2 Gigabit Network Adaptors
GV-VMS Server x 2, each with 1 Gigabit Network Adaptor
IP Camera x 128
GV-POE2401 24-Port Switch x 4
GV-POE1601 16-Port Switch x 2
GV-POE0811 8-Port Switch x 2



1. Setting up Hardware Infrastructure

The illustration below outlines the simple system structure of the GV-Failover Server. You can apply the formula to more complex circumstances.



1. Divide 128 IP Cameras into 2 separate network segments.
2. Assign an IP address to each camera under different network segments. For example:
Set the camera's IP address from **192.168.0.2** to **192.168.0.65** for **Subnet (1)**.
Set the camera's IP address from **192.168.1.2** to **192.168.1.65** for **Subnet (2)**.
3. Distribute the camera channels evenly between 2 subnets by using 4 **GV-POE2401 24 port-Switches** and 2 **GV-POE1601 16 port-switches** to balance the traffic load.
4. Connect 6 10/100 switches in each subnet to 2 additional Gigabit switches, **GV-POE0811 (A)** and **GV-POE0811 (B)** respectively.



5. Connect **1 GV-VMS system** to **GV-POE0811 (A)** and the other to **GV-POE0811 (B)**, each through 1 Gigabit network adaptor. Make sure you assign an IP address to each adaptor. For example:

The IP address of **Adaptor (A) / GV-VMS system (A)** is **192.168.0.100**, and is connected to **GV-POE0811 (A)**.

The IP address of **Adaptor (B) / GV-VMS system (B)** is **192.168.1.100**, and is connected to **GV-POE0811 (B)**.

6. Connect the 2 GV-VMS systems to the GV-Failover Server by using 2 additional Gigabit network adaptors. Make sure the adaptor's IP address is configured under separate subnets. For example:

Set the IP address for **Adaptor (1) / GV-Failover Server** to **192.168.0.110** and connect the adaptor to **GV-POE0811 (A)**.

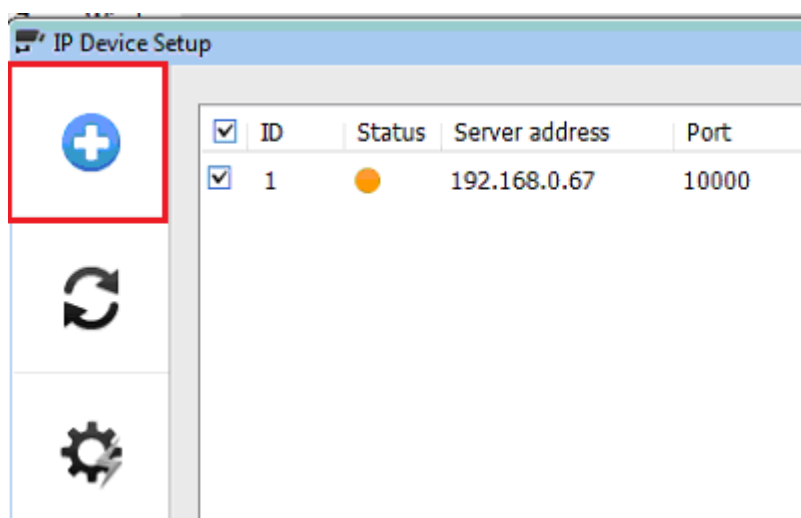
Set the IP address for **Adaptor (2) / GV-Failover Server** to **192.168.1.110** and connect the adaptor to **GV-POE0811 (B)**.



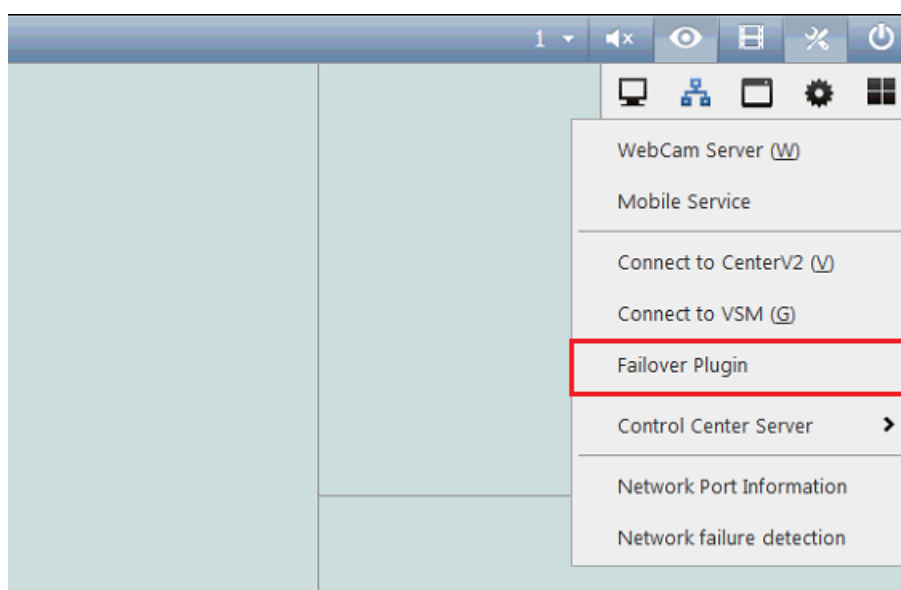
Connecting GV-VMS to GV-Failover Server

Once the hardware setup is completed, you can proceed to the steps below to connect the GV-VMS to the GV-Failover Server.

1. On the main screen of GV-VMS, click **Home**, select **Toolbar**, click **Configure**, and select **Camera Install**.
2. Click **Add Camera** to add 64 camera channels in each subnet into GV-VMS.



3. To enable the connection with GV-Failover Server, click **Home**, **Toolbar**, **Network** and select **Failover Plugin**.





4. In the **IP address** box, type the IP address of the network adaptors for the GV-Failover Server. Make sure you change the IP address to match the network when repeating the same step for the other GV-VMS system. For example:

In GV-VMS (A), type 192.168.0.110

In GV-VMS (B), type 192.168.1.110

The screenshot shows the 'Failover Plugin' configuration window. The 'Failover/Redundant' section contains the following fields:

- IP address:** 192.168.0.110 (highlighted with a red box)
- Port:** 20000 (with a 'Default' button)
- Username:** admin
- Password:** *****

The 'Failover Check Interval' is set to 5 seconds. Below this are three checkboxes:

- ☐ Auto start service.
- ☐ Keep in system tray when operating system starts up.
- ☒ Write to the log file.

A 'Select camera' button is located below the checkboxes.

A table at the bottom shows the server status:

Server address	status
127.0.0.1	Server disconnected

At the bottom of the window are three buttons: 'Start Service', 'Stop Service', and 'Exit'.



- Click **Select Camera**. A camera list appears.

Failover Plugin

Failover/Redundant

IP address: 192.168.0.110

Port: 20000 [Default]

Username: admin

Password: *****

Failover Check Interval: 5 seconds

☐ Auto start service.

☐ Keep in system tray when operating system starts up.

☒ Write to the log file.

Select camera

Server address	status
127.0.0.1	Server disconnected

Start Service Stop Service Exit

- Click the **arrow button** to add the camera channels to the **Selected camera list**.

Select cameras those need failover service

Camera List

- Camera1
- Camera2
- Camera3
- Camera4
- Camera5
- Camera6
- Camera7
- Camera8
- Camera9
- Camera10
- Camera11
- Camera12
- Camera13
- Camera14
- Camera15
- Camera16

Selected camera list

>> > < <<

OK Cancel



7. Click **Start Service** to enable the connection between the GV-VMS and the GV-Failover Server. Make sure the GV-Failover Server is activated before you start the service.

Failover Plugin

Failover/Redundant

IP address: 192.168.0.110

Port: 20000 [Default]

Username: admin

Password: *****

Failover Check Interval: 5 seconds [?]

☐ Auto start service.

☐ Keep in system tray when operating system starts up.

☒ Write to the log file.

[Select camera]

Server address	status
127.0.0.1	Server disconnected

[Start Service] [Stop Service] [Exit]

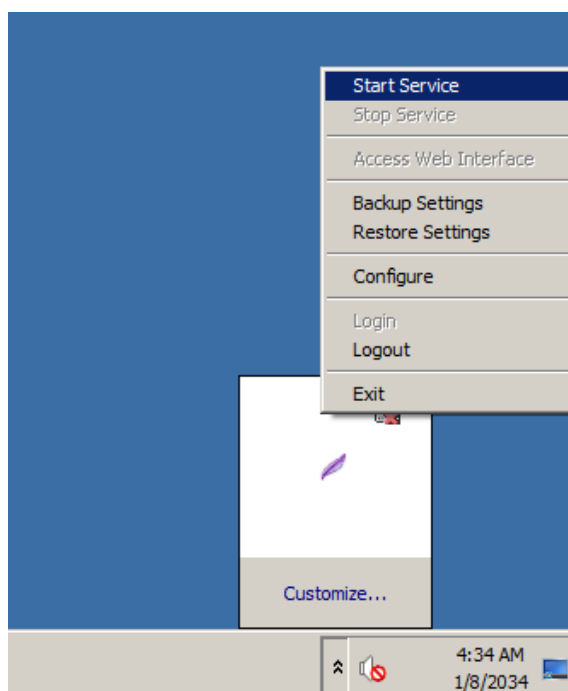
8. Repeat the same steps for the other GV-VMS system.



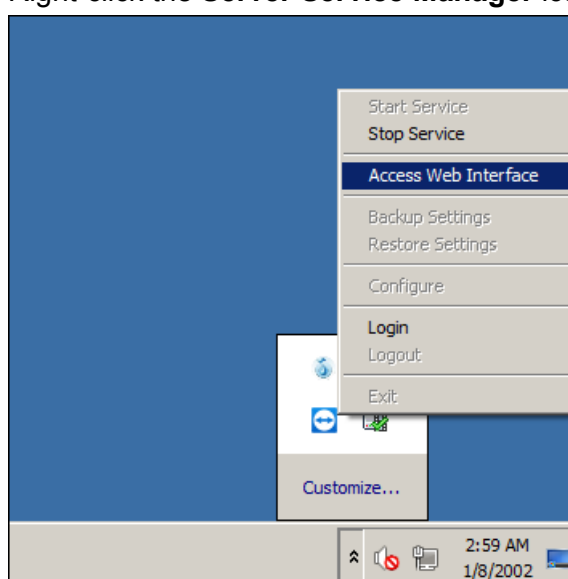
2. Connecting GV-Failover Server to GV-VMS

Once the setup is completed on both GV-VMS systems, you can proceed to the steps below to configure the GV-Failover Server.

1. On the taskbar, right-click the **Server Service Manager** icon , and select **Start Service** to activate the GV-Failover Server.



2. Right-click the **Server Service Manager** icon again, and select **Access Web Interface**.





3. Type the account and the password to log on to the Web Interface. By default, the **ID** and **Password** is **admin / admin**.
4. Select **Host List** at the left menu of Web Interface. You can find the host information and the number of cameras connected to the GV-VMS in the Host List.

Failover Server User Name: admin | Logout

Navigation

- Information
 - Camera Connection Information
 - Storage Information
 - Server Information
- Server
 - Host List**
 - General Setup
 - Storage Path
 - Notification
- Network
 - Network
 - Mail Service
 - Remote ViewLog
- Advanced Management
 - User Account
 - Advanced Query

Host List

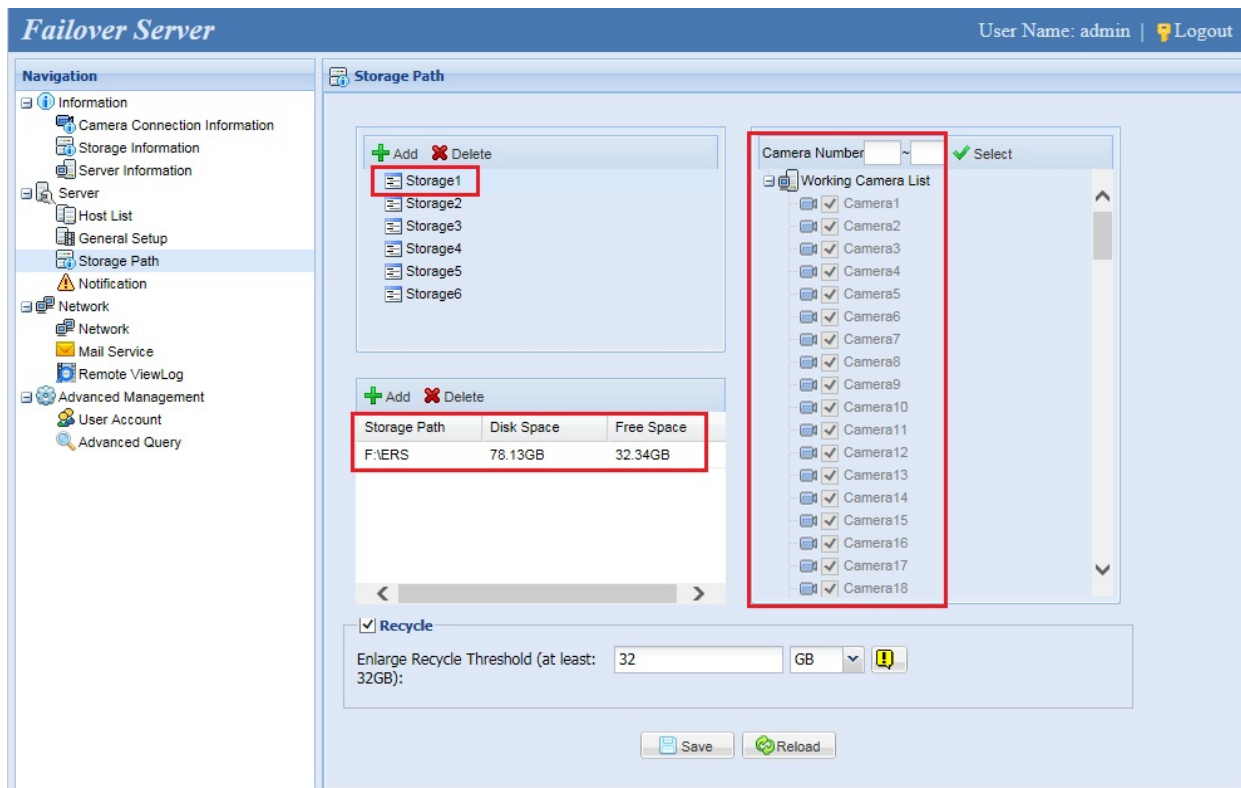
Max Camera Number : 128

	Host Name	IP Address	Number of cam...	Connection Status	Recording
1	VMS A	192.168.0.100	64	Connected	Not Start
2	VMS B	192.168.1.100	64	Connected	Not Start

Status : Loading data succeeded. 2017/3/28 1:45:38 PM



5. Select **Storage Path** under **Server** to configure the storage settings. Depending on the resolution and bitrate of the IP Camera, follow the table below to set up the maximum channels per hard disk for each storage group.



Failover Server User Name: admin | Logout

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Storage Path

+ Add - Delete

- Storage1
- Storage2
- Storage3
- Storage4
- Storage5
- Storage6

+ Add - Delete

Storage Path	Disk Space	Free Space
F:\ERS	78.13GB	32.34GB

Camera Number

Working Camera List

- ☒ Camera1
- ☒ Camera2
- ☒ Camera3
- ☒ Camera4
- ☒ Camera5
- ☒ Camera6
- ☒ Camera7
- ☒ Camera8
- ☒ Camera9
- ☒ Camera10
- ☒ Camera11
- ☒ Camera12
- ☒ Camera13
- ☒ Camera14
- ☒ Camera15
- ☒ Camera16
- ☒ Camera17
- ☒ Camera18

☒ Recycle

Enlarge Recycle Threshold (at least: GB

Resolution	Bitrate (Mbps)	Maximum channels per HDD
1.3 M	5.77	32 ch
2 M	9.16	21 ch
3 M	10.52	22 ch
4 M	11.65	22 ch
5 M	16.48	22 ch
8 M	14.13	22 ch
12 M	14.47	22 ch

When the GV-VMS systems are unable to record live view, the GV-Failover Server will connect to GV-VMS (A) and subsequently GV-VMS (B) to take over the recording.