

Failover Using R-1

1. Overview

The Failover process enables R-1 administrators to maintain a Backup (standby) server that will be used as the R-1 Center in case the Primary Server is temporarily shut down.

Failover is an important fault tolerance function of mission-critical systems that rely on constant accessibility. The backup server is automatically and transparently to the user being updated with all R-1 Center files, so when the need arises, it can replace the primary server and act as an R-1 center, running all replication and distribution jobs as before.

The Failover process updates the Failover server with the following R-1 information:

- **Scheduled Jobs** - This includes all continuous update jobs, scheduled jobs, on-demand jobs
- **Templates** – Common and User Specific
- **Containers** – Common and User Specific
- **Configuration Files**
- **Preference Files**

2. Pre-Requisites

1. The Failover and Primary server should be of the same platform (Windows ↔ Windows, Linux ↔ Linux, etc.).

NOTE: The Failover server must be a different machine than the Primary server.

2. The Failover Server must contain a complete R-1 installation, using the same R-1 version, installed on **exactly** the same path as the R-1 Center initiating the Failover process. Install at least the Center and Edge components; the Console is optional.

The Failover process will fail if these requirements are not met.

3. The Failover process does NOT copy any content from the Primary server to the Failover server. This is the responsibility of the user/administrator.

NOTE: Content in the replication Source Directories is not replicated to the Failover server by the Failover process.

3. Process Description Setup

1. Install R-1 on both Primary and Failover server. Make sure at least the Center and Edge components are installed. Both servers should be installed on EXACTLY the same path on both servers. The Failover and Primary server should be of the same platform (Windows \leftrightarrow Windows, Linux \leftrightarrow Linux, etc.).
2. When the Failover process is enabled on the Primary server, the **RDS Scheduler** service is automatically stopped at the Failover server.
3. Stop the **RDS Scheduler** service on the failover server and set it to start manually, so it won't start automatically in case of a reboot.
4. The Failover process copies scheduled job definitions, Templates, Containers and all configuration files required for the Failover server to act as a Primary server when needed. The Failover does NOT copy content from the production server to the Failover server.
5. When the Primary server goes down, the **user** should perform the following:
 - a. The Failover server should get the **IP / DNS** and **NAME** of the primary server. This should be done according to corporate policy to allow previously scheduled jobs to continue uninterrupted without resubmitting.
 - b. Start the R-1 Scheduler service at the Failover server.

Using Windows:

- i. From the Windows **Start** menu select **Control Panel** \rightarrow **Administrative Tools** \rightarrow **Services**.
- ii. Start the service named **RDS Scheduler**.
- iii. Set the RDS Scheduler service to start automatically.

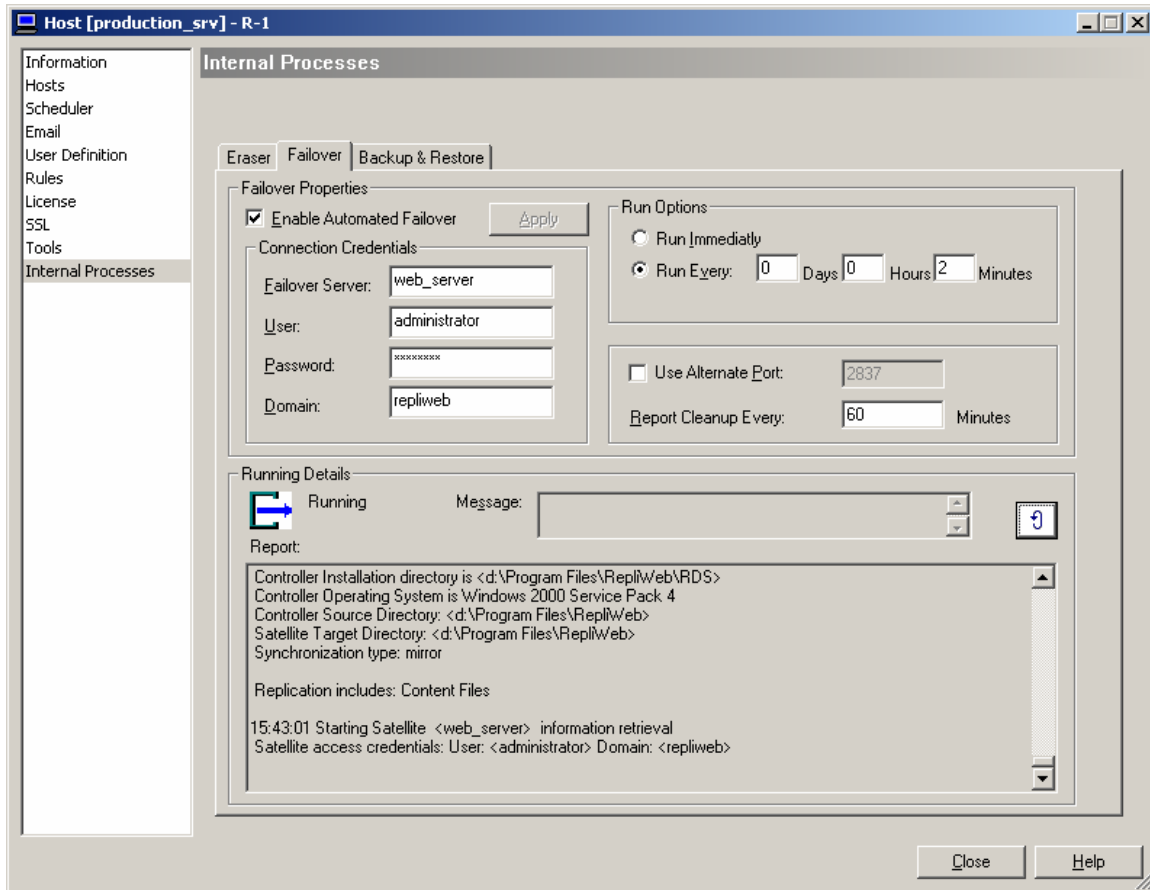
Using UNIX:

Start the repliweb_scheduler: `/usr/bin/repliweb_scheduler`

- c. On the Failover server, using the Console GUI, go to **Manage / Center / Scheduler** and check the **Allow local admin to view all jobs** option.
- d. Using the Console GUI, re-connect to the Failover Center.

4. Console GUI

Using the R-1 Console GUI or the REM Console, define and activate the Failover process.



- **Failover Properties** – Set the Failover process properties.
 - **Enable Automated Failover** – Selecting this option immediately initiates the Failover process.

To stop the Failover process, un-check the field and press the Apply button.

- **Connection Credentials** – Enter the credentials that will be used by the Failover process to connect to the Failover Server.
 - **Failover Server** - Enter the host name or IP address of the R-1 Center being used as the Failover Server.


NOTE: The Failover server must be a different machine than the Primary server.

- **User** – Enter the user name that the Failover Process will use. This should be a valid account on the failover server.
- **Password** - Enter the password for the account specified in the **User** field.
- **Domain** - If **user** is part of a domain, enter the domain here, if it is not, leave this field blank.

- **Run Options** – Specify how the Failover process will run:
 - **Run Immediately** - The process will run immediately if the **Enable Automated Failover** is selected.
 - **Run Every** - Run a job at a specific time interval (days / hours / minutes).

- **Report Cleanup** - The Failover report can be cleaned up at specified intervals. This value is in minutes.

- Press **Apply** to save changed settings. If the Failover is enabled, saved settings take effect immediately.

- **Running Details** – View the Failover job’s state, completion message and report.
To refresh the displayed information clicking **refresh** .

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For any additional information, please contact us at support.repliweb.com