

RPO & RTO

How long will it take to get my data restored? How current will it be when it's restored? These are two important questions following an outage, and metrics like RPO (recovery point objective) and RTO (recovery time objective) are key elements to every company's disaster recovery strategy.

Understanding the differences

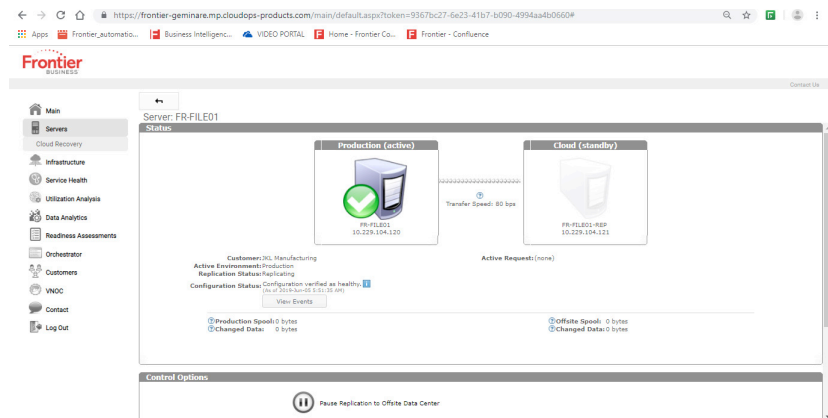


Definitions

- **RPO**, or recovery **point** objective, describes the **point** in time to which lost data can be recovered after an outage. *Ex. That 30-minute RTO has recovered my systems, but the data is from a week ago! How am I to work if I lose a whole week's worth of progress?"*
- **RTO**, or recovery **time** objective, describes the amount of **time** a given computer system, app, or another digital asset must be recovered in the event of an outage. *Ex. A high-volume retailer may determine even five minutes of RTO is unacceptable during the holiday season; during the offseason, an RTO of up to 30 minutes is acceptable.*

What Can Frontier Do For Me?

We are your cost efficient solution! Frontier's Cloud Continuity offering is not the same costly pricing curve you see in the market. By instantaneously saving changes made on the protected device to offsite data centers and enabling a platform with zero RTO to failover and failback following a disaster, the service meets every organization needs to reduce downtime and minimize critical business impacts at a reasonable cost.



IT Resilience Orchestration (ITRO) and How Frontier Will Help You

Frontier's solution mirrors your production environment, replicates your data in real-time, and provides the failover/fallback automation and orchestration via Frontier's Resilience Management Portal. These differentiating features is a powerful combination to meet your desired RPO/RTO that nears zero. The automated failover will trigger start applications (per application to reduce risk or in entirety), increase memory and CPU to the required levels (our scalability feature allows you to keep your cost to a minimum), and allow the exact same access your end-users have for both production and DR environment.

A solution is as good as it's available. Frontier's solution gives you an easy failover and fallback. You will be able to test your DR solution more often to ensure readiness; your IT will not drag their feet looking at the critical regularly conducted tests as a nightmare. Your tests can be run on an application basis with very little planning ahead but it gives you the big assurance that your applications will seamlessly continue during a failover, security breach, natural disaster, maintenance in production, etc.

The screenshot displays the Frontier Business Resilience Management Portal. The page title is "Runbook List". It features a search bar and filters for "Execution Mode" and "Execution Result". The main content is a table with columns for Company, Runbook, Status, and Manage. The table lists several runbooks for different companies, including "Check Replication Status and Restart", "Fallback and Start custom Services", "Failover and Notify Operations", "New DR Runbook 2018-11-13 15:32:15", "New DR Runbook 2019-01-22 17:48:18", "Failover and Increase resources", and "Fallback and Decrease Resources". Each row shows the last updated date, execution mode, status (Idle), last run time, and a "Manage" button.

Company	Runbook	Status	Manage
Customer GHI	Check Replication Status and Restart Last Updated: Jul 19, 2019 Manual Execution	Status: Idle Last Run: Nov 22, 2018 6:55 AM (UTC-4 hrs)	Manage
Customer GHI	Fallback and Start custom Services Last Updated: May 29, 2019 Manual Execution	Status: Idle Last Run: Nov 22, 2018 7:26 AM (UTC-4 hrs)	Manage
Customer GHI	Failover and Notify Operations Last Updated: May 29, 2019 Manual Execution	Status: Idle Last Run: Nov 22, 2018 7:05 AM (UTC-4 hrs)	Manage
Customer GHI	New DR Runbook 2018-11-13 15:32:15 Last Updated: May 29, 2019 Manual Execution	Status: Idle Last Run:	Manage
Customer GHI	New DR Runbook 2019-01-22 17:48:18 Last Updated: May 29, 2019 Manual Execution	Status: Idle Last Run:	Manage
Customer MNO	Failover and Increase resources Failover to the Google hosted Replis and increase the resources of the system Last Updated: Jun 6, 2019 Manual Execution	Status: Idle Last Run: Jul 30, 2019 11:44 PM (UTC-4 hrs)	Manage
	Fallback and Decrease Resources	Status: Idle	

In addition, Frontier's solution comes with a fully featured Runbook scripting tool that empowers you to automate the most complex processes in production and DR environments. Program changes in infrastructure, execute commands/scripts/runbooks, failover/fallback, stop/start replication, and a multitude of other actions now can be escalated in conditioning trees. This will transform your daily routines in a positive way.

You can have the best of all worlds with Frontier's solution, and at a reasonable cost.

Why Frontier?

It's important to understand what you are being offered when shopping around. Most disaster recovery & business continuity solutions will power up a virtual machine and have you manually configuring your applications, end-user access, etc. While they claim to provide you the same RTO/RPO numbers, they lack automation and they lack system level orchestration. The manual processes are tedious, time consuming, labor intensive and prone to errors, particularly under the stress of a disaster. In contrast, Frontier's Cloud Continuity solution is a true IT Resilience Orchestration (ITRO) delivering not only your desired RTO/RPO but do so without the operational hassles.

