IBM Cloud Sync

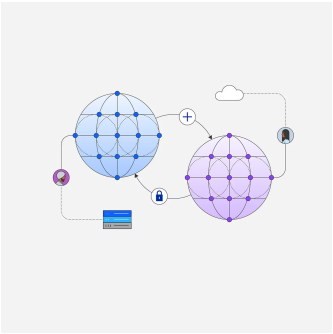
Seamlessly synchronize DNS configurations across multiple cloud providers.

Highlights

IBM Cloud Sync

- Bypass the lack of AWS support for XFR to maximize resiliency, efficiency and growth potential
- Consolidate your DNS data and allow for holistic analysis to make more informed decisions
- Improve efficiency and resilience with automated multi-environment application management.

IBM



IBM Cloud Sync

IBM Cloud Sync is a new data translation service that automatically synchronizes configurations across multiple cloud environments in real-time. This new innovative technology removes operational barriers and enables full synchronization of primary and secondary architectures for more resilient DNS.

Synchronization of DNS data between servers is typically done using DNS Zone Transfer (XFR), however, these protocols have limitations. XFR was created prior to the advent of DNS traffic steering. Also, implementations of traffic steering by DNS vary by vendor, so as a standard, the protocol does not convey this information. Therefore, any DNS records that take advantage of traffic steering functionally do not transfer with fidelity.

Major cloud providers, such as Amazon Web Services (AWS), Google Cloud Platform (GCP) and Microsoft Azure, do not currently offer XFR services, which makes it difficult to implement redundant DNS solutions. This can effectively lock customers into proprietary DNS settings and configurations, particularly for advanced functionality like traffic steering.

This proprietary approach to settings and configurations causes many businesses to operate their applications in silos across multiple clouds. This naturally results in increased costs and operational overhead from supporting app configurations in multiple cloud environments. It also makes applications brittle by preventing resilient failover connections between application elements.

IBM Cloud Sync removes these artificial constraints by efficiently translating application configurations across environments. This allows businesses to efficiently and effectively manage DNS across cloud environments, reducing vendor lock-in and dramatically improving resilience by making automated failover simpler.

Bypass the lack of AWS support for XFR to maximize resiliency, efficiency and growth potential

Cloud Sync supports bi-directional synchronization of zones and records, including standard and non-standard DNS records like apex ALIAS. It also syncs dynamic metadata, such as traffic steering records, and health check probes.

Currently, IBM Cloud Sync supports NS1 Connect Managed DNS and Amazon Route 53, with additional cloud and DNS providers to follow shortly. In the absence of Amazon Route 53 support for the XFR protocol, Cloud Sync's managed service provides quick and accurate translation of DNS data in minutes.

Consolidate your DNS data and allow for holistic analysis to make more informed decisions

IBM Cloud Sync supports more than a one-to-one relationship between DNS services. It allows for the consolidation of multiple Amazon R53 accounts to be routed to NS1 Connect. This can be particularly beneficial to organizations that have undergone mergers or acquisitions or have generated multiple accounts over time. Consolidating a view of DNS data and traffic steering to one place allows our customers to have a holistic view and understanding of their DNS activity. Following that analysis, more informed decisions can be made, and action can be taken to migrate,

transfer or close accounts. IBM NS1 Connect DNS Insights could be used to analyze the data further over time.

Improve efficiency and resilience with automated multi-environment application management

IBM Cloud Sync was developed to solve the issues that network teams face when synchronizing DNS data between providers, while continuing to maintain application resilience and ensuring 100% uptime. When multiple cloud vendors are involved, it can prove particularly complicated and expensive. Cloud Sync will make it easy for you to set up redundant networks to satisfy your disaster recovery requirements, reduce operational burdens and costs, while improving efficiency and business continuity posture.

SMBs and Enterprises will have one tool to easily synchronize DNS data between on-prem, cloud and SaaS services to modernize their network infrastructure and optimize their customer experiences. Cloud Sync is designed to scale, as your business grows, with an increasing volume of zones and records.

Cloud Sync is a SaaS product that allows you to start building and deploying configurations within minutes. It is application-centric and API first with no storage of secrets required. It is a managed service that comes with best-in-class customer support, removing operational burdens and decreasing associated costs.

- Get rid of custom workarounds that don’t scale
- Maintain always-on availability
- Eliminate vendor lock-in
- Be ready for business growth – handle mergers, acquisitions and migrations with ease
- Remove single points of failure by improving disaster recovery posture.

Conclusion

Cloud Sync automates and simplifies configuration management across cloud environments. It allows customers to choose NS1 Connect or Amazon Route 53 as their primary provider and the other as the secondary option. It will then synchronize all DNS zones, records and traffic steering between the two almost instantaneously – literally within seconds. It will ensure that data change persistence is guaranteed, accurate and it removes the risk of human error during manual effort.

Why IBM?

IBM is a leading provider of global hybrid cloud and AI, and consulting expertise. We help clients in more than 175 countries capitalize on insights from their data, streamline business processes, reduce costs and gain competitive edge in their industries.

For more information?

To learn more about IBM Cloud Sync contact your IBM representative or IBM Business Partner.

Produced in the
United States of America
May 2025