

# How to Decide When and How to **Move Splunk to a Hybrid Cloud Environment**



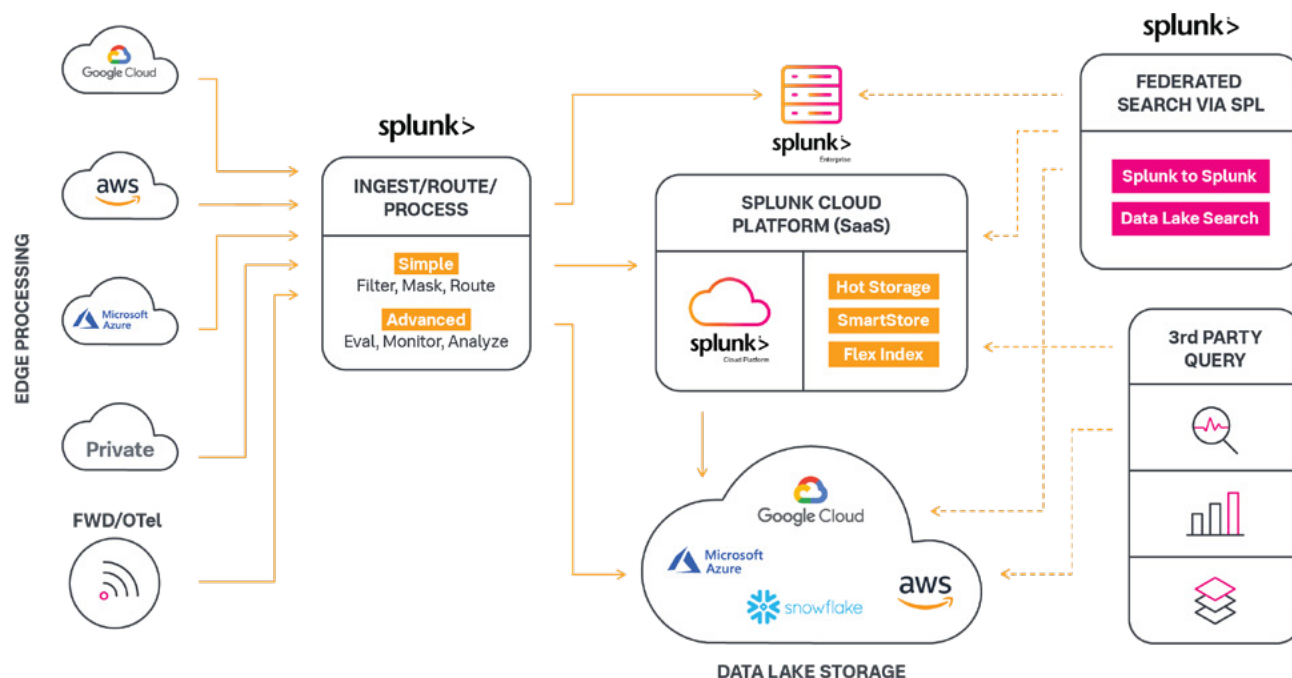
Today's enterprises are accelerating digital transformation to serve their customers better and gain a competitive advantage. Business leaders want to build superior digital experiences through full-stack integration across business processes. To succeed, they need to unlock innovation, improve security and drive business resilience.

For many enterprise organizations, the key to digital transformation lies in the speed, scalability and cost savings of the cloud. But not every organization can move completely to the cloud, for a wide variety of reasons. When thinking about a migration from [Splunk Enterprise](#) to [Splunk Cloud Platform](#), the same may be true and a full migration might not be possible. If that's true for your organization, you might be considering moving some of your workloads from Splunk Enterprise to Splunk Cloud Platform and designing a hybrid deployment model to access the best of both worlds.

Splunk Cloud Platform provides flexibility, reduces administrative overload and ensures you get the latest innovation first without having to carry out an upgrade yourself. Splunk Enterprise allows you to utilize your existing infrastructure investments and maintain full stewardship of your data. By deploying a hybrid Splunk environment, you can take advantage of the best of both worlds and take advantage of the flexibility you need to turn data into doing.



# What is a hybrid environment?



A hybrid cloud deployment is a combination of environments, typically with some applications running on a public cloud environment as well as others running on on-premises or self-managed servers (a.k.a. a private cloud). Other components such as computing, networking and storage can also be run in a hybrid environment.

A hybrid Splunk environment, allows you to keep parts of your Splunk platform environment as a self-managed Splunk Enterprise solution, while migrating some of your workloads to our SaaS offering, Splunk Cloud Platform.



# Why choose a hybrid Splunk Environment?

Migrating to Splunk Cloud Platform doesn't have to be an all-or-nothing proposition. Even if you need to maintain an on-prem environment, you can still get many of the benefits of cloud with a hybrid environment.

A hybrid Splunk environment allows you to get the best of both worlds.

Some of those benefits include:

**Compliance** Many organizations operate under regulatory guidelines that make a cloud-only environment difficult or impossible. In a hybrid environment, you can choose whether applications and data sit in the cloud or on your servers, and where the computing functions take place.

**Speed** In a hybrid Splunk environment, data can be stored in multiple locations to optimize availability to search heads and applications. Critical data can be positioned in more robust storage which allows for faster search results including those results that are required to go downstream. Whereas, long-term/archive data can be positioned on more cost-effective storage alternatives.

**Scale** Hybrid Splunk environments allow you to scale compute and storage depending on the workloads that are required on either Splunk Enterprise or Splunk Cloud Platform. Splunk environments have the ability to scale out storage through multiple mechanisms through smartstore, ingest actions, as well as compute autoscale.

**Cost savings** A hybrid Splunk environment gives you the flexibility to decide what is the most cost-effective option depending on each specific use case. You have the ability to expand compute and storage capacity exactly where

and when you need it. Whether it makes sense to deploy to your self-managed Splunk Enterprise and utilize existing infrastructure or burst certain workloads to Splunk Cloud Platform, you get to decide on a case by case basis, giving you maximum flexibility and the best of both worlds.

**Ease of migration** Migrations can take time. With a hybrid cloud, you can move the workloads that make sense now while you get ready to move others, as well as deploying new use cases directly to the cloud while you migrate, and leave others on-prem to meet security and compliance requirements.

**Data privacy** You may have reasons to maintain full stewardship of your data. These may be based on contractual obligations with your customers, external compliance mandates, or even internal compliance requirements. In the end, the fact that you can run Splunk in your fully owned and managed environment means that you can handle these scenarios. For data that does not have these same stewardship requirements, or where it can be met with Splunk Cloud Platform's compliance offerings, you can select the applicable offering and regional deployment location to address mandates and requirements such as GDPR, HIPAA, and PCI-DSS.

# Splunk Cloud Platform makes it easy to move to a hybrid cloud

Splunk Cloud Platform lets you search, analyze, visualize and act on your data with a flexible and cost-effective data platform service. Splunk Cloud Platform brings customers the power of the Splunk platform delivered as a scalable service, which means you don't have to worry about the administrative and infrastructure overload of maintaining your own environment. The best part is, Splunk allows you to have a hybrid environment. This means you can deploy some of your workloads on Splunk Cloud Platform to take advantage of everything the cloud has to offer, while still maintaining some of your workloads on-prem on Splunk Enterprise. With [Splunk Cloud Platform](#), you can:

**Achieve faster time to value.** With Splunk managing the day-to-day of your Splunk instance, you can focus your time elsewhere.

**Reduce administrative overload.** With Splunk Cloud Platform you don't have to worry about management and upgrades of an on-prem or bring-your-own-license (BYOL) environment. Splunk Cloud Platform operates on a [shared responsibility model](#) to ensure the optimum customer experience. This shared model can help relieve your operational burden as Splunk operates, manages and controls the Splunk Cloud Platform service components, which includes services from our cloud service provider partners, as needed. The nature of this shared responsibility provides you flexibility and control of their Splunk Cloud Platform environment.

**Get the most value from your Splunk environment.** No matter what your resource constraints, Splunk Cloud Platform lets you scale and tackle opportunities as they arise without having to administer additional infrastructure.

**Improve ROI.** Save money and get even more value by outsourcing infrastructure management and administrative tasks to Splunk.

**Always have the latest features/functionality.** Splunk Cloud Platform updates are released on average every four to six weeks, ensuring you will always get the latest features as soon as they are available.

**Stay up-to-date on security patches/vulnerabilities.** Splunk Cloud Platform is built with security in mind, some of which include:

- U.S. Department of Defense (DoD) Impact Level 5 (IL5)
- FedRAMP Moderate
- Health Insurance Portability and Accountability Act (HIPAA)
- Information Security Registered Assessors Program (IRAP)
- Payment Card Industry Data Security Standard (PCI DSS)
- SOC II Type II
- ISO 27001

## Workload pricing

As you embrace a hybrid technology landscape, you'll likely have large amounts of data that are continuing to grow. Workload Pricing aligns your investment to what you do with your data in Splunk Cloud Platform. Essentially, you are charged for the resources consumed for search, analytics, and other data processing workloads. You'll still pay some for ingesting data, but because your investment is aligned to workloads, you can bring in as much data as you want. This gives you more control over your costs, and the flexibility to derive value out of Splunk when and how you want to.

# What capabilities are necessary for a successful hybrid Splunk environment?

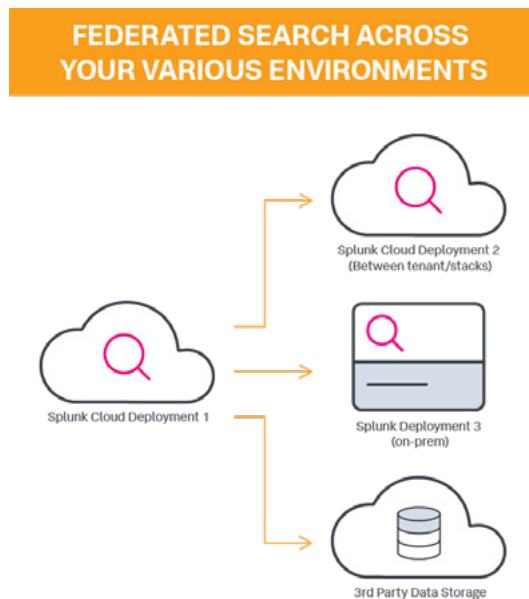
There are as many different ways of configuring a hybrid cloud environment for Splunk as there are hybrid clouds. A hybrid environment gives Splunk users, like you, the flexibility needed to run Splunk successfully.

Whether you plan on doing a full migration to Splunk Cloud Platform, and will only have a hybrid Splunk environment as a temporary measure, or whether you choose to run Splunk in a hybrid environment as your long term solution, we provide the necessary features to make it a success. When considering a move to a hybrid Splunk environment, here are some key features to look for:

**Federated search** allows you the flexibility to search across multiple Splunk environments — including Splunk Cloud Platform and on-premise. Even if you chose to keep some of your workloads on-prem, you'll be able to search across your multiple deployments. Also, federated search breaks down data silos by allowing you to search data in third-party storage.

Federated search also allows gives you the ability to:

- Run ad-hoc and scheduled searches.
- Initiate searches from one Splunk environment to multiple Splunk environments.
- Manage security requirements across environments with role based data access controls.
- Leverage WLM to configure resources for federated searches.
- Configure and setup with a self-service user interface.
- Create consolidated alerts, reports and dashboards from both your Splunk Enterprise and Splunk Cloud Platforms.



## Data manager for cloud onboarding

Getting data in can be challenging and time consuming; but an integrated data manager simplifies how you can get cloud data sources onboarded quickly and efficiently into your cloud environment.

## Ingest actions for filtering and routing

Hybrid multi-cloud technology landscapes are the reality of today's world. Ingest actions facilitate the filtering, masking and routing of data. This means you can route data that you want to keep for auditing and compliance purposes to third-party data sources. Whether you are pulling data into Splunk Enterprise or Splunk Cloud Platform, ingest actions allow you to rapidly author, preview and deploy transformation rules at ingest-time.

## Data lifecycle management

Not all data has the same value. Moving to the cloud can seem challenging when you have a lot of data and are concerned about the cost implications. Data lifecycle management options help you make smart decisions about where and how to store your data.

## Workload management

Workload management allows you to run a set of rules that establishes parameters based on roles and business priorities. This will allow you to set specific rules for your Splunk Enterprise or your Splunk Cloud Platform to ensure optimal use of your search head resources. This allows priority searches to have the highest possible performance while routine searches, such as long term reporting, don't interfere with real-time or near-time on-demand search results.





# Splunk makes it easy to maintain a hybrid Splunk environment

**Splunk Cloud Migration Assessment (SCMA) app** helps you kick off your on-premises-to-cloud migration for Splunk Enterprise to Splunk Cloud Platform. The app analyzes your current on-premises or BYOL Splunk Enterprise deployment and helps you understand the tasks that need to be carried out to migrate to Splunk Cloud Platform, as well as the feasibility and level of effort required. This is a great tool to utilize for the workloads you are ready to move to Splunk Cloud Platform, while keeping your other workloads on-premises.

**Splunk Assist for remaining on-prem components** allows us to bring insight to self-managed Splunk Enterprise deployments to analyze and continually evaluate your security posture, assisting administrators with cloud-powered recommendations to change configurations to enhance security for your self-managed environment.

## What does a migration look like

- **Organizational planning** resulting in well defined processes, data conversations, and business outcome definition
- Business and technology **stakeholder alignment**
- **Prioritization plan for workloads** to move to the cloud/ when based on business requirements and needs
- Engagement with **professional services**
- Realistic **expectation of project completion** and ongoing work phases

IDC Group Vice President, I&O, Cloud Operations, and DevOps, Stephen Elliot, outlines these recommendations and more in the paper, [“What Makes a Cloud Migration Successful? A Best Practice Blueprint from Industry Leaders”](#), he writes:

“As more businesses demand better ease of use, improved scalability, and lower total ownership costs via SaaS-delivered cloud-based solutions, they must consider critical, foundational organizational, process, and technology factors that enable a successful cloud migration. Moving from on-premises/customer managed cloud deployment to a SaaS-delivered solution requires concise organizational planning, well-defined processes, data conversations, and a clear vision for business outcomes. In addition, organizing business and technology stakeholders will ensure a focus on the proper priorities and establish buy-in for deployment and production. Finally, engaging professional service groups can help avoid unnecessary delays and drive adoption of best practices.”



# Carrefour Responds to Security Threats 3x Faster With Splunk Cloud Platform

The eighth-largest global retailer, [Carrefour](#) has superstores in Europe, South America and Asia. It knows customers expect the same convenience online as in-store, whether ordering via the mobile app or getting “click and collect” deliveries. To improve customer experience across its online shopping channels, Carrefour embraced a digitization strategy that includes taking advantage of cloud-based services.

With Splunk Cloud Platform, Carrefour now has the agility to focus on developing new features and services. Splunk Cloud Platform also simplifies security, so customers can shop safely. Using real-time insights from Splunk, Carrefour now responds three times faster to security threats and makes smarter decisions about preventing incidents.

Not every organization is ready or able to move completely to the cloud. But every organization can get the benefits of cloud with a hybrid cloud environment. Splunk has the tools and expertise to help you build and manage your hybrid Splunk implementation as effectively as possible.

If you're ready to find out more about the powerful benefits of hybrid cloud and Splunk Cloud Platform, [click here](#) to get a free trial.

Free Trial



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