

4 considerations for choosing your multicloud infrastructure foundation

Every technology leader in the automotive industry is at some stage of developing a cloud computing strategy. Some automotive companies are evaluating their options and viable approaches, while others are transitioning part of their IT infrastructure to the cloud. Among automotive enterprises prepared for the industry-wide shift to cloud computing, some have already made the transition to operating in cloud environments. Automotive IT leaders often find that a multicloud strategy is the best option to position the enterprise for the major automotive market evolution that is already transforming the industry.

Operating in a multicloud environment requires an IT operation and development solution that will work across all cloud platforms. Consider these points as you evaluate multicloud solutions on how they help your enterprise distribute workloads across public cloud platforms while avoiding vendor lock-in.

1 Standardize your software

The operating system and tools that operators and developers use should work the same way across all cloud platforms—private and public—and allow teams to work together toward common goals. The same is true of the container platform used to deploy applications across a hybrid or multicloud infrastructure. Look for a vendor that offers solutions that do not require numerous add-ons to make applications and services work as intended.

The ratio of public cloud, private cloud, and datacenter resources your enterprise uses may change as market and regulatory factors evolve in the automotive industry.

- ▶ Will you be able to respond effectively to changing cloud requirements without having to launch a major transformation effort?
- ▶ Can your IT solutions support DevOps practices that facilitate your enterprise scalability and innovation?

2 Keep your options open

IT leaders understand the disadvantages of depending on a single third-party vendor for IT operation and development solutions. It is crucial to maintain flexibility and choice so that the IT function can adapt its applications and processes

to meet enterprise needs in the highly dynamic automotive space. Select an operation and development platform that will work with tools and services from various vendors.

Data and application portability are critical to business operations and partner initiatives.

- ▶ Does your infrastructure support uninterrupted movement of data and applications if you need to use new platforms or public cloud providers?
- ▶ Will your IT solutions allow you to adopt, deploy, and test new and emerging technologies as the automotive industry moves toward edge computing?

3 Emphasize integration

Look beyond the multiple cloud platforms on which your applications run—what systems, services, and databases do they need to access without interruption? Consider how well core legacy systems will integrate with cloud environments. The IT operation and development solutions you choose also need to support integration with partner systems across the automotive supply chain to create a robust and smoothly connected ecosystem.

Maintaining control over how applications integrate within cloud environments will ease the transition to cloud platforms, minimize application disruption and downtime, and allow IT personnel to focus on high-value initiatives.

- ▶ Will your infrastructure allow a phased integration that best suits operations?
- ▶ Are you selecting IT solutions that offer integration features—like authentication, data capture, and application programming interface (API) management—that meet your application performance needs?

4 Think (vendor) strategy

While automotive companies and their IT leadership formulate strategies for growth in the evolving industry, vendors likewise must look ahead and make strategic decisions. Get information about how the vendors you are considering plan to grow their own enterprise. Assess how those plans will impact your relationship with them in the future and how well they can equip your enterprise to handle changing business and IT needs.

Because the foundation of your cloud matters

Our [open hybrid cloud strategy](#)—supported by community-powered [open source](#) technologies—brings a consistent foundation to any cloud deployment: public, private, hybrid, or multicloud. Open hybrid cloud is Red Hat's recommended strategy for architecting, developing, and operating applications across a hybrid mix of cloud environments, delivering a truly flexible technology experience with the speed, stability, and scale required for digital business transformation.

This strategy gives developers a common application environment to develop, orchestrate, and run their applications, while equipping system administrators and operations teams with a common operating environment to more easily manage their infrastructure. With this consistency across environments, you can optimize and automate your IT infrastructure for business agility and innovation.

Red Hat's open hybrid cloud strategy is built on the technological foundation of [Red Hat® Enterprise Linux®](#), [Red Hat OpenShift®](#), and [Red Hat Ansible® Automation Platform](#).

Learn more about [Red Hat's hybrid cloud solutions](#).




Lessons learned from the vendor will support your risk mitigation plans.

- ▶ What kind of support, services, or training does your chosen vendor offer for your IT operations and development teams?
- ▶ How will your IT solutions vendor help you resolve issues related to a critical failure of a cloud provider?
- ▶ Will your infrastructure be sufficiently nimble to support quick resolution?



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