What is laaS?

Infrastructure as a service

Overview

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Infrastructure as a service (IaaS) is a type of cloud computing service that offers essential compute, storage, and networking resources on demand, on a pay-as-you-go basis. IaaS is one of the four types of cloud services, along with software as a service (SaaS), platform as a service (PaaS), and serverless.

Migrating your organization's infrastructure to an laaS solution helps you reduce maintenance of on-premises data centers, save money on hardware costs, and gain real-time business insights. laaS solutions give you the flexibility to scale your IT resources up and down with demand. They also help you quickly provision new applications and increase the reliability of your underlying infrastructure.

laaS lets you bypass the cost and complexity of buying and managing physical servers and datacenter infrastructure. Each resource is offered as a separate service component, and you only pay for a particular resource for as long as you need it. A <u>cloud computing service provider</u> like <u>Azure</u> manages the infrastructure, while you purchase, install, configure, and manage your own software—including operating systems, middleware, and applications.



Common laaS business scenarios

Learn about Azure IaaS

Lift-and-shift migration

This is the fastest and least expensive method of migrating an application or workload to the cloud. Without refactoring your underlying architecture, you can increase the scale and performance, enhance the security, and reduce the costs of running an application or workload.

Test and development

Your team can quickly set up and dismantle test and development environments, bringing new applications to market faster. IaaS makes it quick and economical to scale dev/test environments up and down.

Storage, backup, and recovery

Your organization avoids the capital outlay for storage and the complexity of storage management, which typically requires a skilled staff to manage data and meet legal and compliance requirements. IaaS is useful for handling unpredictable demand and steadily growing storage needs. It also can simplify planning and management of backup and recovery systems.

Web apps

laaS provides all the infrastructure to support web apps, including storage, web and application servers, and networking resources. Your organization can quickly deploy web apps on laaS and easily scale infrastructure up and down when demand for the apps is unpredictable.

High-performance computing

High-performance computing on supercomputers, computer grids, or computer clusters helps solve complex problems involving millions of variables or calculations. Examples include protein folding and earthquake simulations, climate and weather predictions, financial modeling, and product design evaluations.

Infrastructure as a service

Advantages of laaS

Reduces capital expenditures and optimizes costs

laaS eliminates the cost of configuring and managing a physical datacenter, which makes it a cost-effective choice for migrating to the cloud. The pay-as-you-go subscription models used by laaS providers help you reduce hardware costs and maintenance and enable your IT team to focus on core business.

Increases scale and performance of IT workloads

laaS lets you scale globally and accommodate spikes in resource demand. That way, you can deliver IT resources to employees from anywhere in the world faster and enhance application performance.

Increases stability, reliability, and supportability

With laaS, there's no need to maintain and upgrade software and hardware or troubleshoot equipment problems. With the appropriate agreement in place, the service provider assures that your infrastructure is reliable and meets service-level agreements (SLAs).

Improves business continuity and disaster recovery

Achieving high availability, business continuity, and disaster recovery is expensive because it requires a significant amount of technology and staff. But with the right SLA in place, laaS helps to reduce this cost. It also helps you access applications and data as usual during a disaster or outage.

Enhances security

With the appropriate service agreement, a cloud service provider can offer better security for your applications and data than the security you would attain in house.

Helps you innovate and get new apps to users faster

With laaS, once you've decided to launch a new product or initiative, the necessary computing infrastructure can be ready in minutes or hours, rather than in days or weeks. And because you don't need to set up the underlying infrastructure, laaS lets you deliver your apps to users faster.

Related Azure IaaS services and products











