

Get cloud advantages without security risks

HP Enterprise Cloud Services—Compute

Security Fact Sheet

Confidently move to cloud options

Enterprises like yours see the obvious benefits of cloud computing—highly scalable IT services consumed on an as-needed basis can reduce IT costs and make your technology environment more agile and responsive. However, you also see the inherent risk in accessing those services over the public Internet and aren't sure that the benefits are worth gambling your organizational security.

It doesn't have to be either one or the other. You can meet both those disparate needs through HP Enterprise Cloud Services—Compute, delivering network-based computing advantages with proven HP technologies.

Everything you need, nothing you don't

This cloud compute solution provides "IT as a service." We securely host your workloads on your choice of physical or virtual servers in our industry-leading, next-generation data centers. You'll always know which of these data centers is running your cloud services, and you can easily access the infrastructure and applications you need using the Internet, a virtual private network, or a dedicated circuit.

Benefits

- Maximize IT investments by reducing capital outlay and paying only for the services you use
- Respond faster to changing business conditions with fast provisioning and flexible resources
- Customize your technology environment with service options that fit how you do business
- Mitigate risk with our best-in-class security policies and practices

The foundation of these services is our HP Converged Infrastructure architectural model, bringing servers, storage, network, software, and security together into an optimized and efficient resource pool. This matches your supply of IT resources with demand for business applications. You get everything you need to run key applications and securely access them over a network—without investing in assets or processes you don't need.

Security you can count on

HP also applies our extensive, global security expertise to keep your information and processes isolated and protected from both logical and physical threats. Working in tandem with our HP Security experts, we cover your enterprise needs:

Physical Security

Our cloud compute services are delivered from HP next-generation data centers, designed and built to HP's standards and best practices.

- Access control is by key card or biometric palm scanner.
- Site monitoring includes indoor/outdoor video surveillance and on-site security personnel on a 24x7x365 basis.
- There is no labeling on the equipment that could be used to identify individual customers.
- There are multiple feeds and backup precautions for data links and for power.
- Customers and visitors are not allowed on the machine hall.

Client Data Isolation

Although our cloud compute services operate on a shared infrastructure model, we take steps to secure, isolate, and protect each client's information and processes. Components of our data isolation include:

- Fiber channel zoning, which logically isolates servers
- Logical unit (LUN) security, which isolates servers on storage devices, masking files not legitimately available to other users
- Isolating/segregating individual tenants on client-dedicated broadcast domains for each client's application traffic and backup



Data Security

HP knows you have concerns about any enterprise information stored outside your own systems. That's why we incorporate a stringent security process and stringent security controls into our cloud compute services. Safeguards include:

- Individual administrative logins for security and traceability
- Exclusive two-factor-authenticated access by HP to privileged user accounts for HP-managed systems
- Encrypted login credentials
- Special tools to protect against default passwords and incorrect configurations on HP managed servers
- Firewall and VPN monitoring & management
- Online storage and backup media scrubbed when retired or replaced
- Backup tapes held in a secure, separate HP data center

Audit Compliance

We know your enterprise is likely to require periodic audits, so HP builds in the elements you need to simplify that process.

- We help facilitate any audits, typically conducted with third-party organizations, in conjunction with your security officers and ours.
- We correlate security intelligence from multiple sources and map it to your environment.
- All data centers are ITIL-process-compliant and ITIL-certified.

Application and Data Availability

No matter what, you've got to have access to the information and processes that keep your enterprise going. HP provides business continuity and helps you better manage risk in the way that best fits your needs:

- Remote backup and restore
- Redundancy/failover
- Intrusion detection systems (IDS) and intrusion protection systems (IPS)
- Security consulting for custom needs
- Hardened OS configurations
- Log collection for infrastructure servers
- Option for clients to extend their existing identity management into the HP cloud

Why HP

HP is a trusted ally in helping you navigate and leverage the paradigm shift to cloud-based services, blending the hardware, software, consulting, and managed services expertise to make cloud a viable option for enterprise needs. We understand integrated security is a key factor and incorporate our industry-leading security services into Enterprise Cloud Services—Compute.

For more information

Go to www.hp.com/enterprise/cloud

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