POLICY-DRIVEN HYBRID CLOUD GOVERNANCE
There is an answer: a new approach that transforms current enterprise IT operating models into automated, self-service models that deliver business agility, speed up innovation and reduce costs. The core of this approach provides business users and developers with self-service access to cloud services. But self-service without governance is not sustainable — ungoverned IT usage can result in customer and corporate data being exposed, services going down, regulations being violated, backup plans being overlooked, and myriad other IT safeguards being ignored. The cornerstone of any successful IT transformation to the cloud is policy-driven governance.

The best way to enforce cloud governance and security while delivering business agility is to provide application-centric, extensible, policy-based governance controls across IT services. App-centric policies control and orchestrate the deployment and operation of applications and platforms across underlying cloud infrastructure. Dynamic, declarative policies enable automation of end-to-end processes while being easy to modify and maintain. An extensible policy model allows enterprises to rapidly customize policies to address a broad range of business requirements, both today and in the future. By providing extensible governance tools based on dynamic, app-centric policies, IT organizations are able to respond to new business needs rapidly while still ensuring the control necessary to empower business units with direct self-service access to the IT resources they need.

7 MUST-HAVES FOR A HYBRID ENTERPRISE CLOUD
Enterprise cloud solutions provide a controlled, secure home for your mission-critical apps and an environment that fosters accelerated development of new, next-gen apps. An effective enterprise cloud ecosystem has seven foundational characteristics:

1. **Application-centric approach** to balance cost, security, performance and reliability options with application lifecycle capabilities to accelerate release and place apps and workloads in the best cloud, whether public or private, or on or off premises.

2. **Data protection**, with encryption of all traffic entering and leaving the cloud. Policies to enforce compliance and data residency requirements combined with infrastructure services that offer dedicated networking along with physical segregation of resources, when needed.

3. **Edge-to-endpoint security**, with policy-based controls and a strong defense-in-depth framework that includes integration with your enterprise AD/LDAP, intrusion detection monitoring and vulnerability scanning — all administered by security experts.

4. **Support services** that are scalable and provide global assistance 24x7x365, addressing your needs now and in the future.

5. **Integration with your legacy infrastructure**, extending orchestration, automation and governance capabilities through adaptors, API and SDK to existing tools, virtualized and nonvirtualized databases and your PaaS provider.

6. **Operational excellence** with self-service, application portability across cloud providers, high availability, ITIL integration, performance management, intelligent capacity planning, auto-scaling, and policy-based workload placement.

7. **Transparency across cloud providers**, with easy access to performance and usage metrics, granular billing information and security reporting by organization, department, application or project group.
The greatest returns come with an Enterprise Hybrid Cloud. Fully governed, always on. Where you feel safe and secure. Easy to manage with cloud portability and with full transparency.

1. Application-Centric Approach
Choose the right cloud, private or public, based on your application needs.

- Let the workloads be the guide to developing your cloud plan and accelerating change with a policy-driven hybrid cloud ecosystem.
- Focus on agility, cost savings and risk mitigation in application workload and deployment.

2. Data Protection
An enterprise hybrid cloud must deliver the protection required to support your mission-critical data and to meet regulatory demands.

- Encrypts all traffic entering and leaving the cloud.
- Offers physical segregation of resources when needed to address compliance requirements.
- Provides backup and disaster recovery.

3. Security
Enterprise clouds demand security from the edge to the endpoint — security that is policy-driven and consistently applied across your cloud ecosystem.

- Supports 24x7 security monitoring by certified security experts.
- Supports a defense-in-depth security framework that delivers the physical and logical security, access control and data integrity services that enterprises need.
- Provides group- and role-based access control, integration with enterprise AD/LDAP and multifactor authentication.
- Provides enterprise-class firewalls, network intrusion detection monitoring and vulnerability scanning.
- Backed by SSAE 16 and ISO 27001 audits and certifications.

4. Enterprise Support
Enterprises need built-in support for their clouds, without any hidden or extra charges.

- Supports integration with traditional IT infrastructure.
- Multilingual 24x7x365 help desk support by phone.
- Assigned Personal Delivery Manager.
- Scalable to meet your needs now and in the future.

7 Must-Haves for an Enterprise Hybrid Cloud.
5 INTEGRATION
Enterprise hybrid clouds are easy to use and simple to administer, enabling integration with existing policies, tools and legacy infrastructure.

ITIL integration: performance management, capacity planning, configuration and change management

Integrate with your access control/entitlement verification directories; use your existing tools via adaptors API and SDK

Single vendor support for cloud infrastructure management

Orchestration and federation to simplify management of a hybrid cloud

6 OPERATIONAL EXCELLENCE
Reliable, resilient, flexible and responsive

Always on; always performing with true auto scaling

Infrastructure-independent blueprints to design portable multi-tier applications and platforms

Consistent policy-driven governance between private and public and across cloud providers

Professional onboarding support

Automate application lifecycle development process

7 TRANSPARENCY
An enterprise cloud must be fully transparent with easy access to performance, usage tracking and granular billing information across cloud providers.

Real-time performance with drilldown capability for CPU, memory and storage

Easily accessible security reports on your cloud environment, including vulnerability alerts, intrusion detection events, monitoring of access controls and firewall rule sets

Usage tracking at the user, group and department levels

Granular billing and simplified administration for cost chargebacks or showbacks

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Multilayered Composite Applications
ERP Applications
Third-Party Applications
QA Environments
Workloads Running on x86 Platforms
In-House Developed Applications
B2B Extranet
Consumer Web 2.0
Mail and Collaboration
Content Management
Business Software as a Service

Find out more at www.csc.com/cloud
CSC'S ENTERPRISE CLOUD SOLUTION PORTFOLIO
CSC CloudCompute®, CSC BizCloud™, CSC BizCloud VPE, CSC Cloud IU™ for SAP and ServiceMesh Agility Platform™ deliver on enterprise cloud requirements. We offer not only the cloud management platform, infrastructure and services, but also the capabilities and skills to transform and cloud-enable legacy applications and quickly build new ones. We’re recognized not only for our cloud infrastructure as a Service, but also our application management and cybersecurity leadership.

CSC CloudCompute is a pay-as-you-go service that delivers IT capacity from CSC Cloud Data Centers worldwide. CloudCompute’s scalable IT services help businesses avoid the risk and costs of inaccurate workload forecasting and provide high availability on demand. Built-in security and workload isolation protect sensitive data and mission-critical applications.

Golden State Foods (GSF), one of the food-service industry’s largest diversified suppliers, had a highly decentralized IT operation that was driving up the cost and complexity of managing existing operations and launching new ones. To increase IT flexibility and control IT hardware costs, GSF consolidated its IT infrastructure by deploying CSC CloudCompute with full disaster recovery capabilities. The results:
• Shortened cycle times for new application projects
• Doubling of workloads managed in the cloud
• Reduced capital costs with as-a-service model

CSC BizCloud VPE delivers dedicated compute and network access, with logical segregation of storage deployed from CSC Cloud Data Centers. BizCloud VPE is unique in providing customers with greater resource segregation than a multitenant environment can offer, while also maintaining scalability. Customers reduce risk, pay no capital costs and gain flexible cloud infrastructure.

An international mining group needed to reduce IT costs and align and scale IT resources with its diverse business requirements. BizCloud VPE was deployed with full disaster recovery capabilities. The results:
• Reduced cost by 28.9% for like-for-like workloads
• Removed $10 million in capital exposure
• Eliminated $2.5 million in operating costs

CSC BizCloud is a private cloud that is ready for application deployment in as few as 10 weeks. The fully integrated cloud is delivered from the customer’s choice of premises — in your data center, one of our worldwide data centers or a colocation facility. You get full segregation of resources dedicated to a single client and offered in a consumption-based model. Gain scale-on-demand capabilities and pay only for what you use while retaining full control of security and compliance.

Telenor Sweden, a large mobile communications operator, needed to provide a more flexible infrastructure that could grow with business needs, improve customer experience and reduce IT costs. Telenor outsourced its IT services and infrastructure to CSC and deployed CSC BizCloud. The results:
• Increased flexibility
• Improved service levels and stability of IT environments
• Reduced costs with pay-as-you-go pricing
• Maintained performance during seasonal peaks without adding additional capacity

CSC Cloud IU (Infrastructure Utility) for SAP accelerates upgrade and deployment of SAP environments by providing a complete, ready-to-use managed service. Cloud IU for SAP incorporates all aspects of an SAP infrastructure, including compute, storage, backup/restore, disaster recovery and SAP Basis Layer services. SAP Basis support covers all run-time operations so that you can refocus your staff’s attention on more critical business priorities.

A global leader in electronics and information technologies needed to accelerate integration of a new division supporting SAP, its ERP solution of record. Cloud IU for SAP delivered a private cloud that offered SAP application support and infrastructure in an as-a-service-based pricing model. The results:
• Infrastructure upgrade without capital investment
• Up to 10x improved performance for key SAP management tasks
• Scalability and agility available to support continued growth

ServiceMesh Agility Platform enables a single, policy-driven, integrated control point for governance, compliance and security across diverse cloud applications and cloud suppliers. The Agility Platform delivers fully governed, self-service access to applications, platforms and services; simplifies management, orchestration and delivery of hybrid cloud environments; and enables movement of applications between and across clouds.

Commonwealth Bank of Australia (CBA) had a new vision to deliver IT as a service to its business customers. CBA relies on the ServiceMesh Agility Platform to implement the bank’s policies at the core of its cloud operating model.
• Moved spending on infrastructure from 50% of the operating budget to just 26%
• Increased application deployment updates 2.5x
• Cut IT operations by $100 million a year

Find out more:
www.csc.com/enterprise_cloud