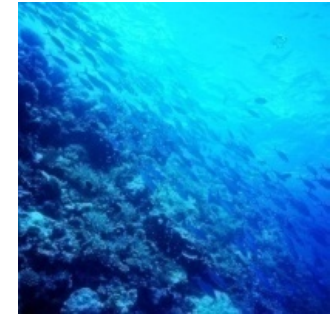
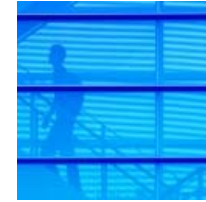
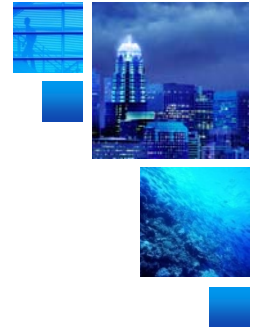

Operating System For The Cloud

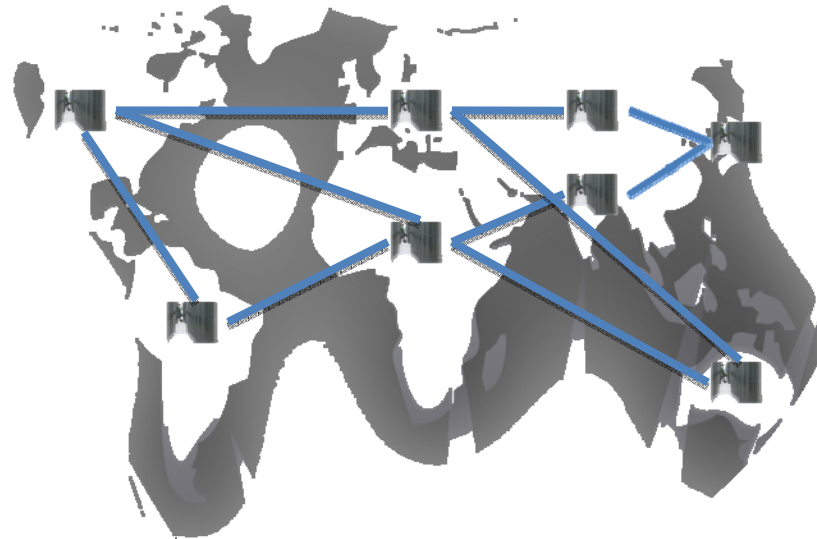
Amitabh Srivastava
Senior Vice President
Microsoft



What is the Cloud Computing?

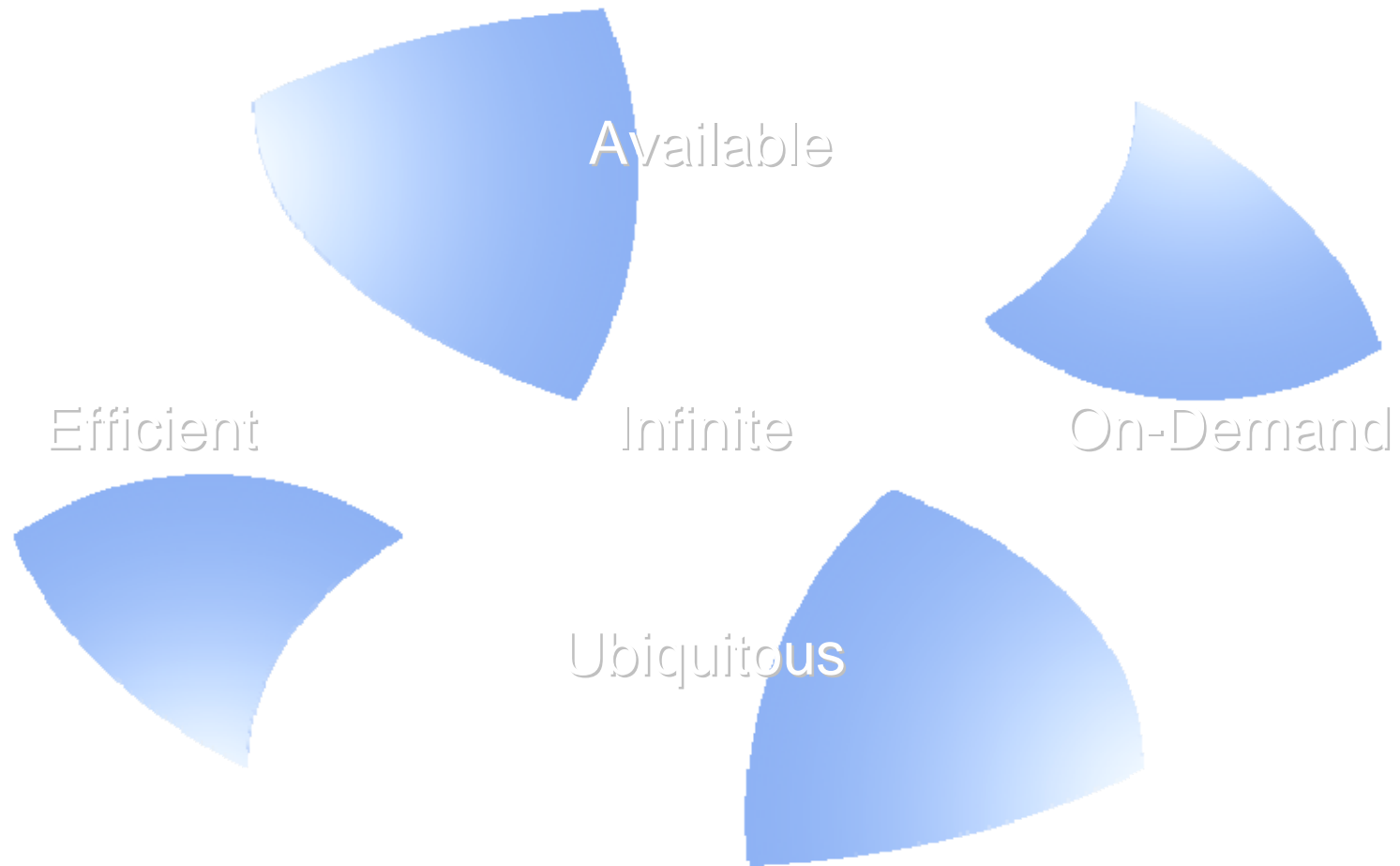
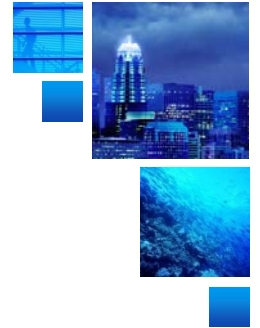


A massive geo-distributed computer



Available as a service

Cloud Computing Ideal



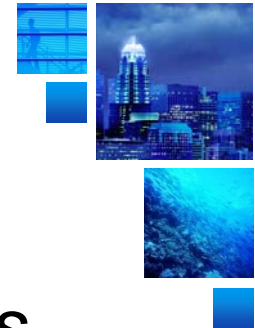
Cloud computing strives for the cloud computing ideals

Our Vision



**To deliver a cloud operating system that
supports developing and managing
scalable, available cloud services
with lower OPEX/CAPEX
and greater agility**

Our Operating System Metaphor

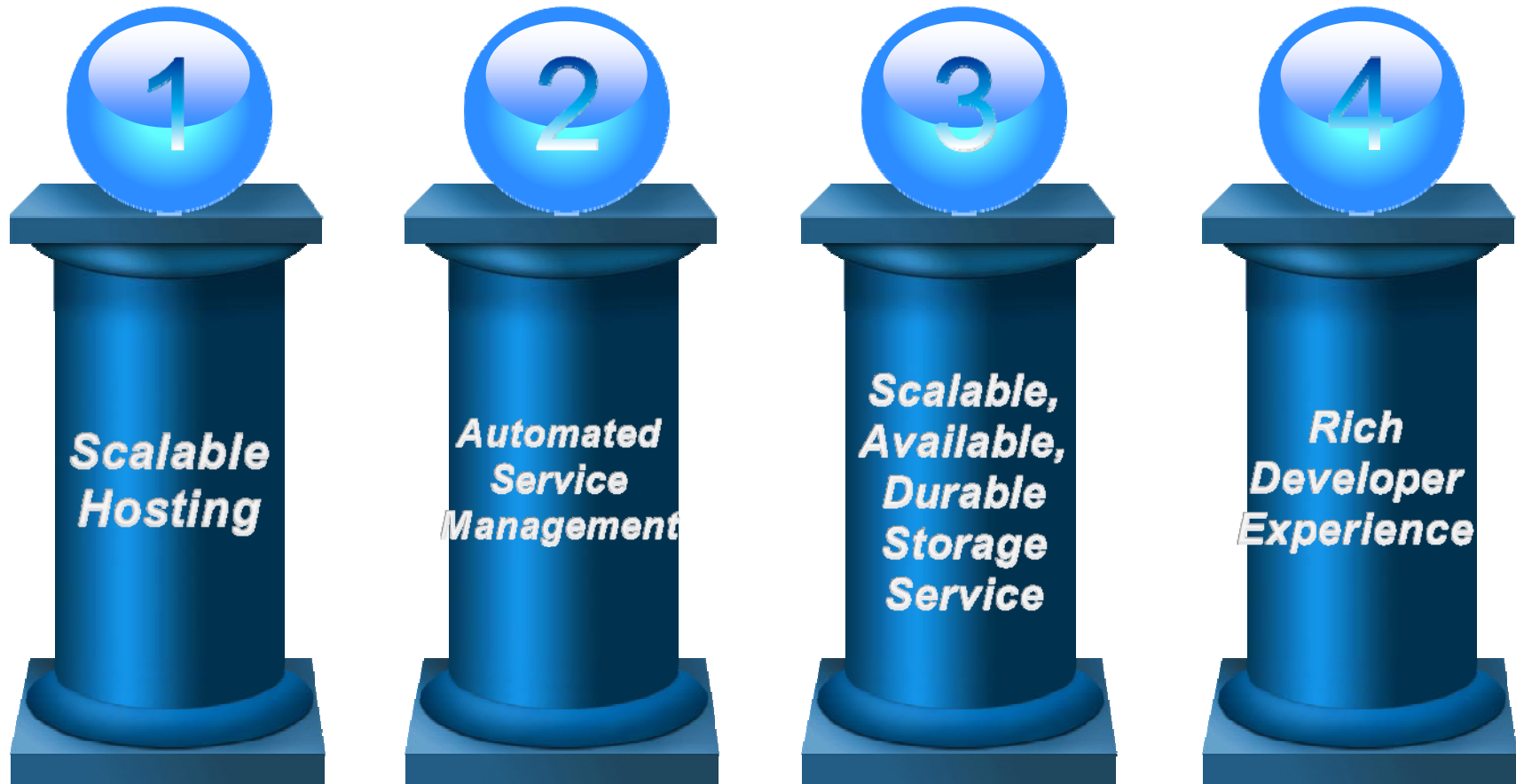
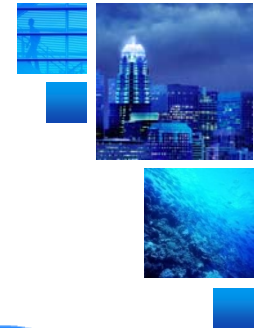


Providing Abstractions

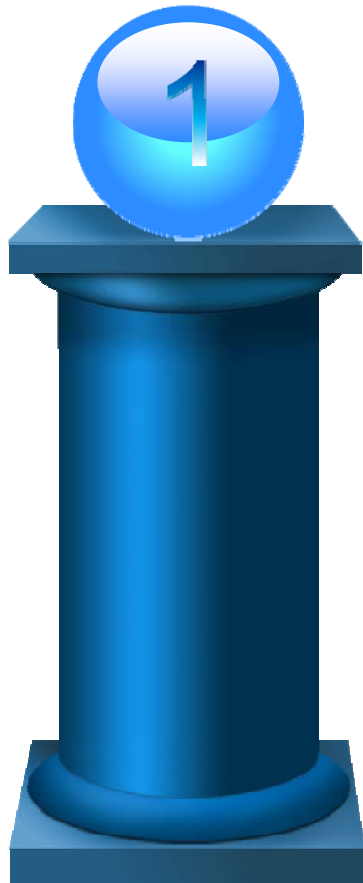
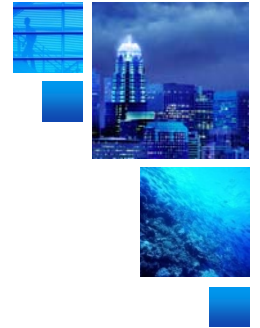


Managing Resources

Windows Azure Pillars



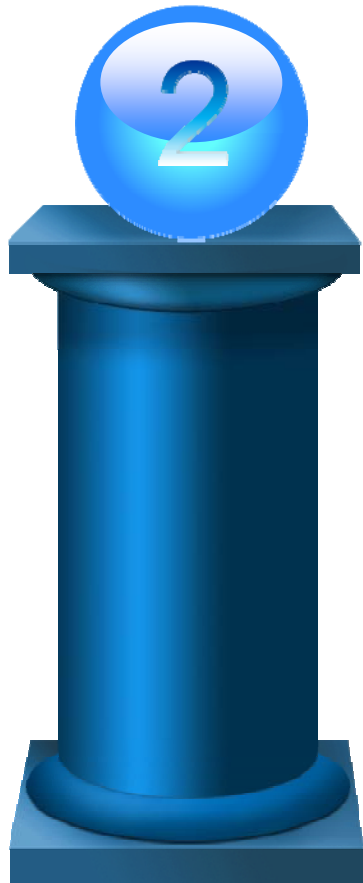
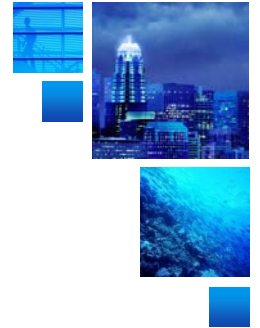
Scalable Hosting



- Efficient, Hypervisor-based Virtualized Computation
- Scale-out vs. Scale up
- Add and remove capacity on demand
- Security is key for this environment

Provides secure on-demand compute with efficient utilization

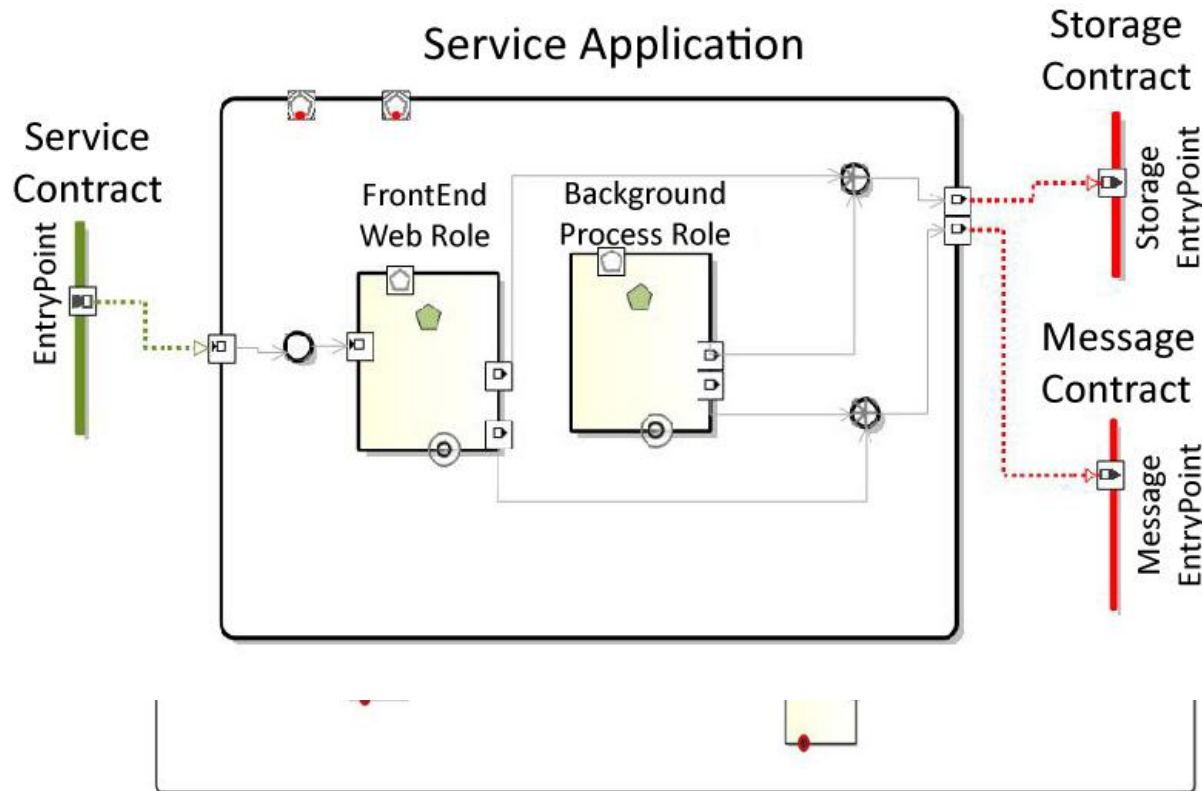
Automated Service Management



- Automates the entire lifecycle of your service
- Assigns from a shared pool of hardware resources
- Maintains the health of your service
- Declarative service model guides service management

Manages the lifecycle of your application per your specification

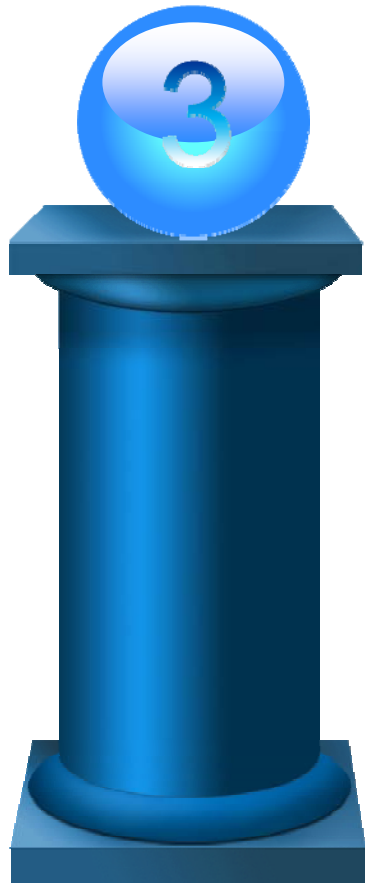
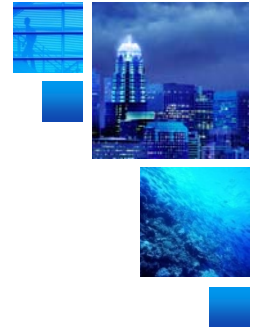
Manage Services, Not just Servers



- Roles and Groups
- Channels and Endpoints
- Interfaces
- Configuration settings

You provide your code and the service model

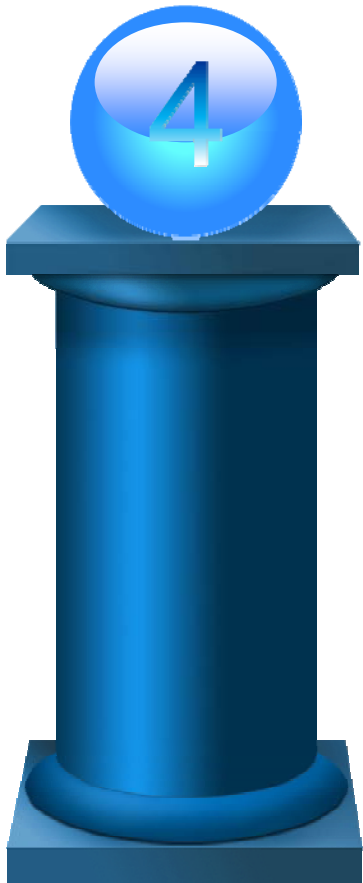
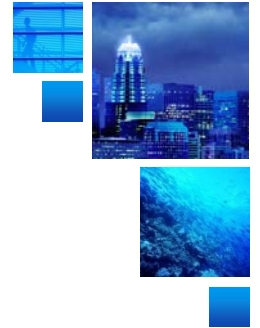
Scalable, Available, Durable Storage Service



- Tables, blobs, queues, streams
- Low-cost commodity hardware
- Adaptive replication, caching, and load balancing
- High availability without user intervention

On-demand geo-distributed storage at low cost

Rich Developer Experience



- 'Cloud in a box' desktop development environment
- Supports both native and managed code
- Familiar Visual Studio technologies
- Monitoring and diagnostic support

Your skills transfer
Write, test, debug your code on your desktop

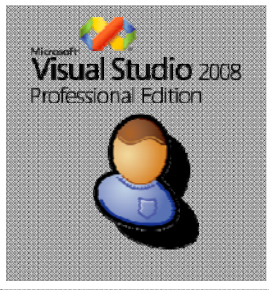
Designed for Interoperability



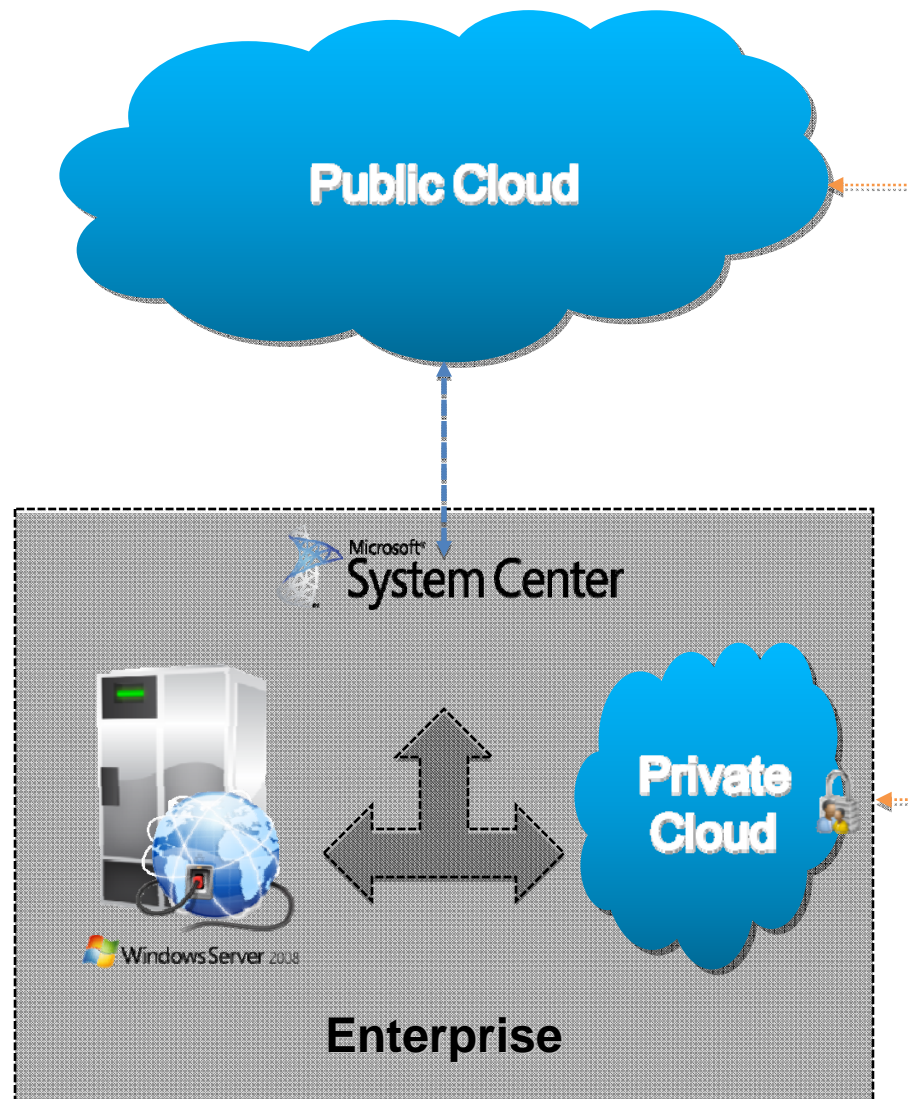
- Command-line interfaces
- REST protocols
- XML file formats
- Support for all languages

Interoperate with other clouds
with no data lock-in

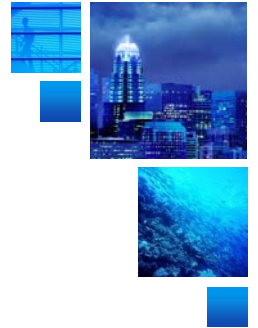
Extending the Enterprise



**Publish to
Cloud or
Enterprise**



Realizing the Vision : Windows Azure

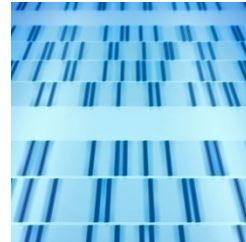


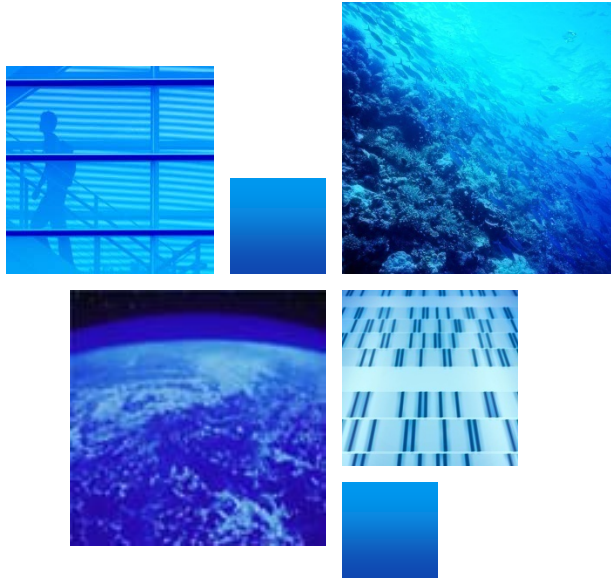
- **Quickly** get your service up and running.
- **Confidently** keep your service up and running
- **Efficiently** deliver your service
- **Seamlessly** extend the enterprise

<http://www.azure.com>



Windows® Azure™





Microsoft[®]

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