Cisco Intercloud Bundles Accelerate Your Transition to Hybrid IT

**BENEFITS**

- Efficient development and testing of applications across on-premises private cloud infrastructure and on-demand public cloud IaaS
- Consistent implementation of network and security policies and governance to maintain consistent security and policy for workloads throughout the cloud
- Rapid access to public cloud capacity to keep up with business demand
- Easy management of peak workloads by bursting to Cisco IaaS and returning to your on-premises private cloud infrastructure when desired

Siloed infrastructures and loss of IT security and control make transitioning to hybrid cloud challenging. Cisco® Intercloud Bundles can help lessen these challenges with secure and transparent bidirectional workload portability across private and public clouds, while empowering your existing staff to manage workload placement and broker service delivery.

Organizations are increasingly adopting hybrid cloud to solve their business and technology challenges. Hybrid cloud offers the control, compliance, and security of a private cloud with the flexibility, rapid scalability, and pay-as-you-go benefits of the public cloud. Implemented correctly, hybrid cloud can overcome the limits of a siloed infrastructure, retain high levels of security, reduce infrastructure complexity, and provide better control.

Cisco Intercloud Bundles are available in two secure enterprise-class options:

- Cisco Intercloud Bundle with Cisco Unified Computing System™ (Cisco UCS®)
- Cisco Intercloud Bundle

If you're just beginning your cloud journey, Cisco Intercloud Bundle with Cisco UCS can help you create a hybrid cloud based on the foundation of the Cisco Unified Computing System, and other proven hybrid cloud components such as Cisco Intercloud Fabric for secure workload portability, Cisco UCS Director for unified converged infrastructure management, and Cisco Infrastructure as a Service (IaaS). If you want to extend your existing Cisco UCS data center foundation to a hybrid cloud, Cisco Intercloud Bundles complement your existing enterprise/private cloud infrastructure with on-demand Cisco IaaS.
Increasing Business Demands and Rapid Technology Shifts Mean Major Challenges for IT

Businesses must adapt to the constantly evolving implications of globalization, new business models, and regulatory compliance. At each turn, IT must accommodate fast-moving transitions in technologies such as cloud, mobility, video, and big data. To keep up with the rapid pace of change, IT organizations must evolve to support strategic business objectives.

This transformation is becoming more critical than ever, because in the emerging Internet of Everything era, the pace of change is accelerating. Line-of-business (LOB) leaders acutely feel this pressure. Sensitive to the needs for innovation and to quickly capitalize on opportunities, they are gaining influence on budgets and are often bypassing IT to use external solutions, consequently creating "shadow IT" initiatives.

To overcome these challenges and deliver solutions at the speed and agility required by today's businesses, a new approach is needed - one that is fast and drives innovation.

This new model looks inside and outside the business to find the right services with the right consumption models to support the objectives of the business. By assuming this role of "broker of IT services," IT can align its initiatives with business objectives.

This model allows organizations to:

- Be more efficient with their hybrid IT investments
- Better manage security and levels of risk and meet governance requirements
- Become a change agent that's seen as a true strategic enabler

Although hybrid cloud promises a variety of business benefits, if not done right, adoption can both challenge and disrupt IT and the organization's core business. Cisco Intercloud Bundles can help.

What You Buy

Cisco Intercloud Bundles are complete solutions that include Cisco Intercloud Fabric software and Cisco Powered IaaS. We also offer a bundle that includes Cisco UCS.

The two Cisco Intercloud Bundles are summarized in Table 1.

Table 1. Cisco Intercloud Bundles

<table>
<thead>
<tr>
<th>On-demand Cloud Infrastructure</th>
<th>Cisco Intercloud Bundle with Cisco UCS to Start Your Cloud Journey</th>
<th>Cisco Intercloud Bundle to Extend Your Existing Infrastructure to Hybrid Cloud</th>
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<tbody>
<tr>
<td>Link Across the Cloud Domains</td>
<td>Cisco Intercloud Fabric for Business</td>
<td>Cisco Intercloud Fabric for Business</td>
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<tr>
<td>On-Premises Private Cloud</td>
<td>• Cisco UCS B-Series Blade Servers (infrastructural foundation) • Cisco UCS Director (unified converged infrastructure management)</td>
<td>Existing Data Center Foundation</td>
</tr>
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</table>

Main Capabilities

- Enable transparent bidirectional workload portability across private and public clouds
- Maintain consistent security, policy, and governance for a workload throughout the cloud
- Empower existing staff to manage workload placement and broker service delivery
- Design an IT solution with the flexibility to scale infrastructure and source services from the intercloud
How It Works
Cisco Intercloud Fabric works like an orchestra conductor, coordinating all the required hybrid cloud activities to help ensure secure virtual machine mobility between enterprise/private cloud and Cisco IaaS. This solution offers an easy-to-use GUI that streamlines the movement of workloads between the Cisco IaaS and enterprise/private cloud.

The first example (Figures 1, 2, and 3) shows the ease of moving a virtual machine (VM) from Cisco IaaS back to the private cloud.

Figure 1. User Selects the VM to Be Moved to the Cisco IaaS
**Figure 2.** User Selects the 'Migrate VM to Cloud' Option to Start the Process

![User Selects the 'Migrate VM to Cloud' Option to Start the Process](image)

**Figure 3.** User Selects the Destination for the VM

![User Selects the Destination for the VM](image)
Once the ‘Proceed’ button is selected, the migration of the VM begins.

This next example (Figures 4, 5, and 6) shows the ease of moving workloads from enterprise/private clouds to Cisco IaaS.

**Figure 4.** User Selects the Workload (VM) to be Moved to the User’s Private Cloud

![Figure 4](image1)

**Figure 5.** User Selects ‘Migrate VM on Premise’ Option to Start the Process

![Figure 5](image2)
As shown in these examples, Cisco Intercloud Bundles can help make your business more agile. Using the power of Cisco Intercloud Fabric, they let you move workloads for optimal placement in the hybrid cloud for greater visibility, control, and management of your cloud resources.

**Use Cases**

Table 2 summarizes the primary use cases for Cisco Intercloud Bundles.

**Table 2. Use Cases**

<table>
<thead>
<tr>
<th>Use Case</th>
<th>Details</th>
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<tbody>
<tr>
<td>Shadow IT Control</td>
<td>• IT remains in control of what and where applications and workloads can be deployed in the hybrid cloud</td>
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<td></td>
<td>• Organizations that want a &quot;single pane of glass&quot; for governance, control, security and network management</td>
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<tr>
<td>Dev/Test</td>
<td>• Dev/Test workloads moved due to capacity reasons, data location, and more</td>
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<tr>
<td></td>
<td>• Addresses the lack of an adequate development environment</td>
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<tr>
<td></td>
<td>• Dev/Test workloads moved back on premises to production when complete</td>
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<tr>
<td>Capacity Augmentation</td>
<td>• Bursting from private cloud to Cisco IaaS for peak workloads</td>
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<tr>
<td></td>
<td>• Rapid access to hybrid cloud capacity to keep up with business demand</td>
</tr>
<tr>
<td>Best Venue</td>
<td>• Limited upfront CapEx for infrastructure: build the base, rent the peak</td>
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<tr>
<td></td>
<td>• Maintain regional data sovereignty compliance by appropriate workload placements in multinational locations</td>
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</table>
Why Cisco?

Enable True Hybrid IT Flexibility with Secure Workload Portability

Hybrid IT solutions are support changing business needs, such as seasonal demand, lack of an adequate development environment, capacity augmentation, and service deployment variability. But to achieve the greatest value from a hybrid cloud, you need to be able to move workloads transparently and bidirectionally across private and public cloud boundaries while maintaining uncompromised security, management, and policy enforcement. Cisco Intercloud Fabric technology, included in Cisco Intercloud Bundles, enables workload portability across heterogeneous clouds, allowing optimal placement of workloads in the cloud and rapid response to shifting demands.

With Cisco IaaS, you can have the benefits of an on-demand, fully automated infrastructure, built using industry-leading hardware and software that delivers enterprise-class performance (99.99 percent availability SLA), simple self-service access, security and compliance, and end-user controls. Working together, the components of the bundles help customers realize the business benefits delivered by Cisco’s hybrid cloud solutions.

Next Steps

To learn more about Cisco Intercloud solutions, visit http://www.cisco.com/go/cloud.
