# Virtualization_r.png

**Dynamic Data Center Toolkit for Enterprises**

**Microsoft is developing flexible, extensible ways to deliver the foundation for private cloud based services to the enterprise.**

**Dynamic Data Center Toolkit for Enterprises**

**Availability scheduled in the first half of 2010, and free of charge!**

The Dynamic Data Center Toolkit for Enterprises is a free, partner-extensible toolkit that will enable data centers to dynamically pool, allocate, and manage resources to enable IT as a service. Whether you’re an enterprise customer, a systems integrator, or an independent software vendor, the toolkit will help you create agile, virtualized IT infrastructures. You’ll get:

* An architectural roadmap, deployment guidance, and best practices.
* Familiar tools that are compatible with existing applications.
* Interoperability with hosted and public clouds.

**Delivering Value to Customers**

The Dynamic Data Center Toolkit for Enterprises plans to deliver to its customers: Operational Efficiency, Capital Efficiency, End User Flexibility, and ability to Manage Existing Applications.

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| --- | --- | --- |
| **Operational Efficiency** | **Capital Efficiency** | **End-User Flexibility** |
| Increased ease and speed of provisioning | Server consolidation and optimization | Self Service Portal |
| Reduced planning for managing infrastructure resources | Lower floor space needs |  |
| Reduced human intervention, resulting in reduced risk |  |  |
| Potential energy savings |  |  |
| Reduced need for extensive IT staff, and reduced cost of outsourcing |  |  |

**Components**

The Dynamic Data Center Toolkit for Enterprises comprises of four operational components or phases.

* **On-boarding:** Allows IT admins to capture the service requirements from the IT service manager (customer). Some of the features that it might include are: Capture of IT service requirement, Establishment of VM options, Creation of user groups, and Selection of patch options.
* **Self Service/ Admin Portal:** Allows IT service manager to interact with his/her service from deployment to decommissioning. Service managers also have the option to access VM and charge-back reports.  Some of the features it might include are:  Start/stop VMs, Decommission VMs, and Access reporting functions.
* **Provisioning:** These are foundational to the enablement of the IT service. Batch creation of the VMs enables the simultaneous or sequenced deployment of multiple VMs into a service environment. Bare Metal provisioning of Windows® Hyper-V™ host is enabled through Microsoft® Deployment Toolkit (MDT).
* **Operate:** The Dynamic Data Center Toolkit  for Enterprises will utilize the Microsoft System Center family of products (e.g. SCVMM, SCOM, etc) to provide management capabilities such as: Monitoring VM uptimes and host capacity
* Archival and decommissioning of VMs, Patching and Software Updates, Backup/restore (no mention of SC Data Protection Manager) etc.

**Partner Extensibility v1.0**

The Dynamic Data Center Toolkit for Enterprises and its compute fabric utilize multiple Microsoft technologies for extensibility purposes such as:

|  |  |  |
| --- | --- | --- |
| **PowerShell** | **SCOM Connector** | **PRO and Management Packs** |
| Microsoft’s command shell for scripting and development.  Expose task oriented actions as PowerShell cmdlets. | A custom service or program that allows System Center Operations Manager to communicate with external systems. | For Eventing – Reporting of Status, failures and action triggers  PRO allows customers to tie specific Operations Manager alerts to actionable remediation actions in VMM. |
| Admin configures PowerShell script to include specific cmdlets. | Partners can develop a custom connector by using the Operations Manager Connector Framework (OMCF), which provides methods and types that can be used to initialize and manage a connector. |  |

**Get Ready for the Dynamic Data Center Toolkit for Enterprises.**

Ramp up on Windows Server® and Microsoft System Center products. To learn more and access resources on the private cloud infrastructure, visit [www.microsoft.com/privatecloud](http://www.microsoft.com/privatecloud).

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