



IBM Connected 2013

Her Deneyim Bir Kazanım

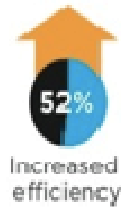
**Sanal Ortamınızı İş Amaçlı Kullanıma Hazır
Bir Buluta Dönüştürün**

Mehmet Özgür Depren
IBM Cloud & Smarter Infrastructure

[#connected](#)



Hizmete Hızlı Erişim

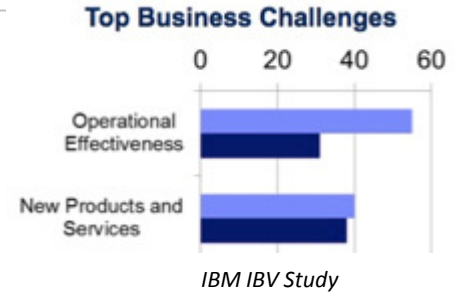


“21% [#2 rank] need Cloud to align to the velocity of the business”



“43% want more efficiency in cloud delivery, 25% developing new Cloud apps”

The 2011 IBM Tech Trends Report



Hizmet Kalitesi Optimizasyonu



“54% were unsure of how many cloud services were being used, effecting optimal business operations.”



“Nearly 70% of active cloud users report little confidence monitoring their cloud services”



“48% lack visibility into cloud operations inhibits analysis of compliance, Perform. & ROI”



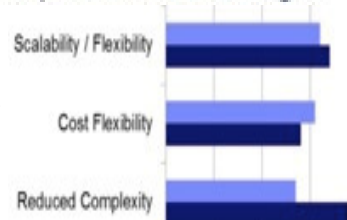
“55% of enterprises are connecting mobile devices to back-end cloud services”



Kolay Yönetim



Top Business Challenges



IBM IBV Study

“40% lose of control & governance is a top concern”



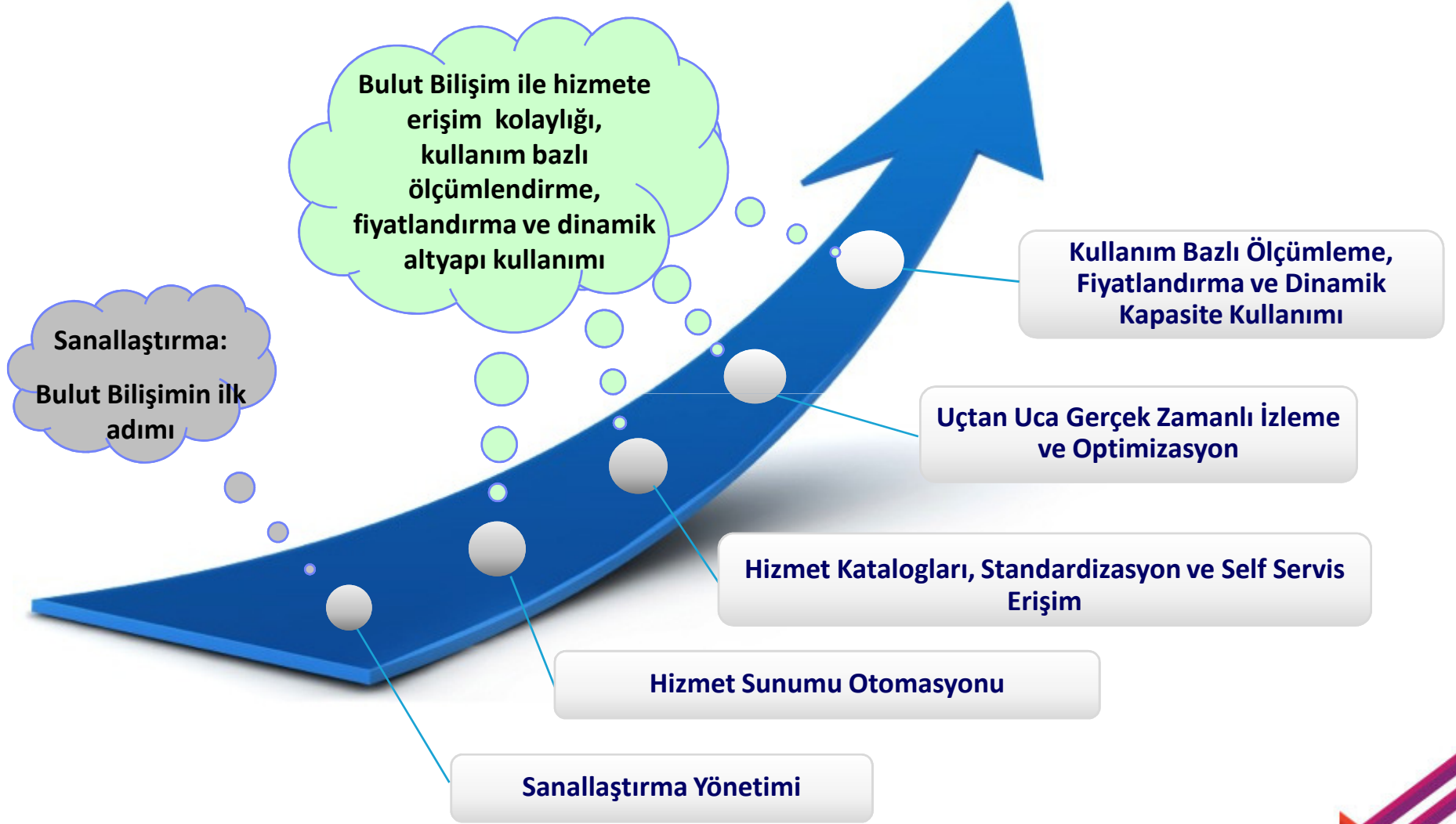
“80% focused on Cloud processes and management processes [#1]”

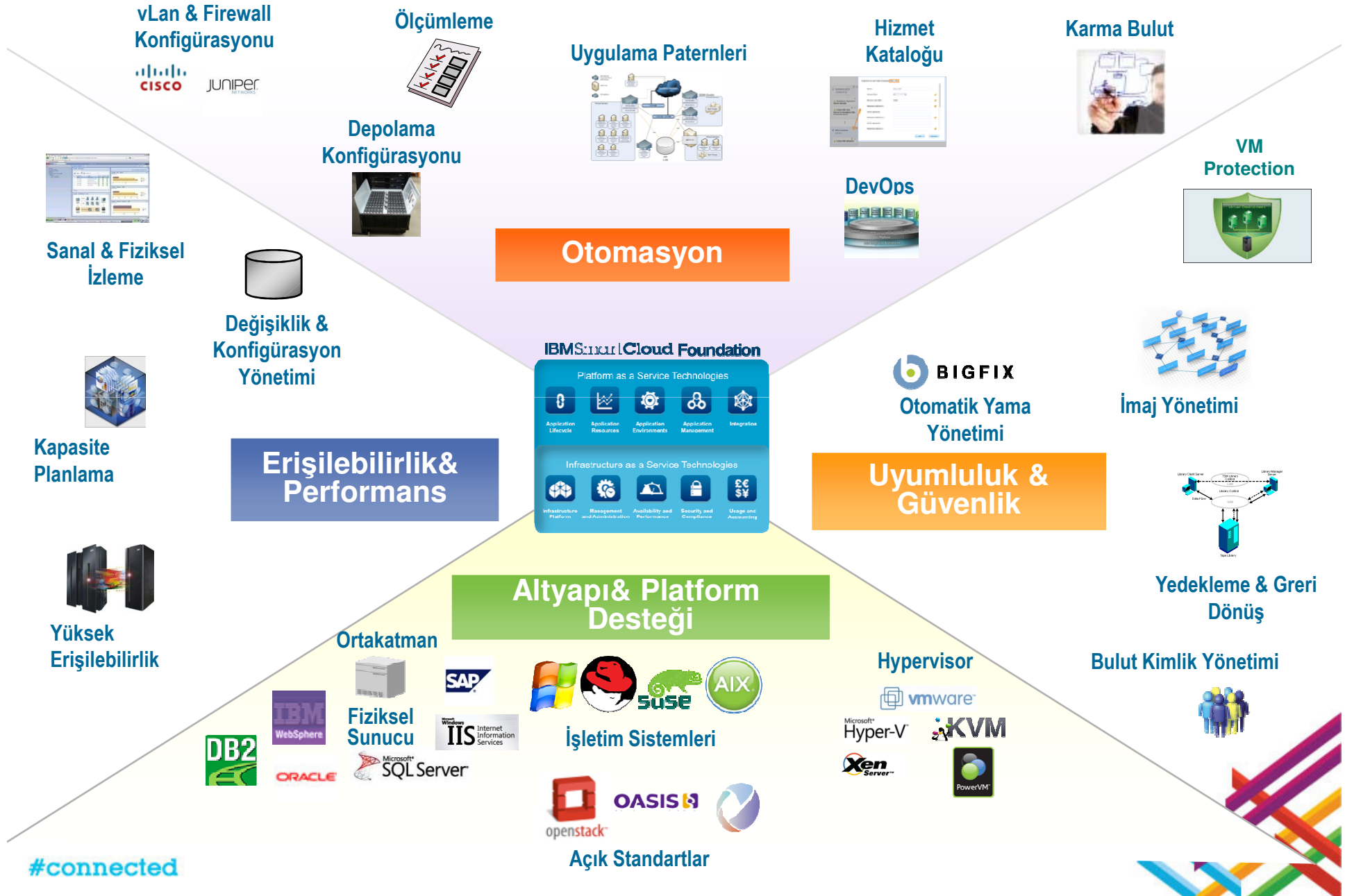


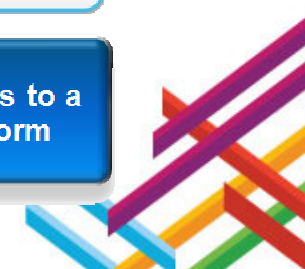
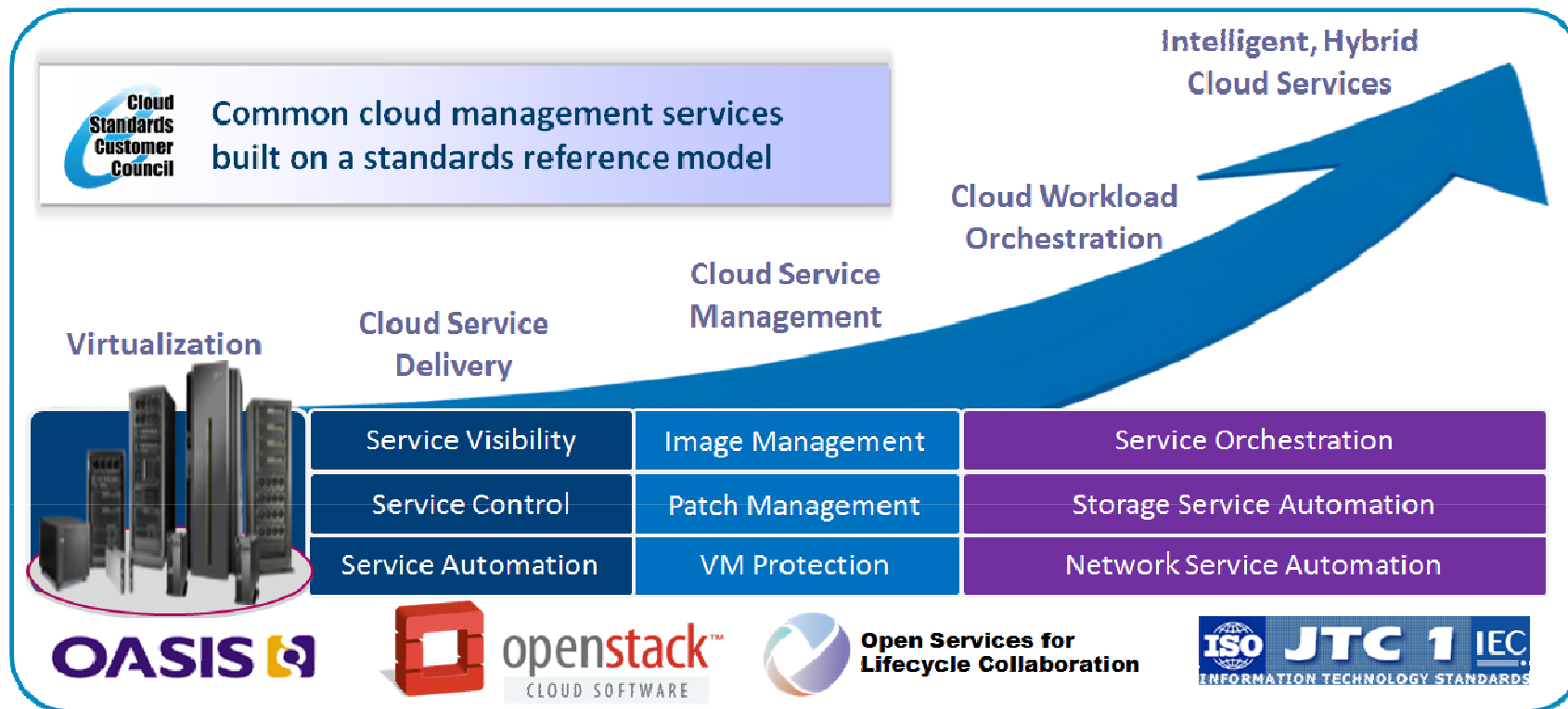
Cloud – Need to speed storage agility



Sanallaştırılmış Altyapılardan Bulut Bilişime Geçiş Yol Haritası

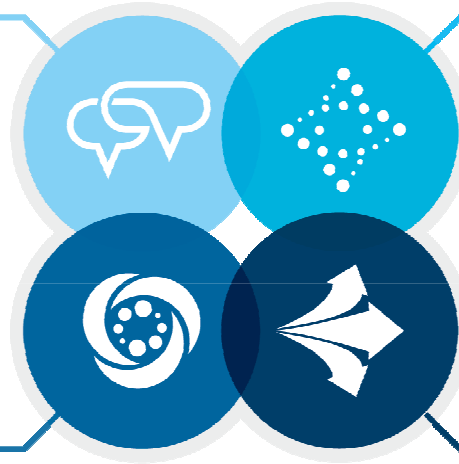
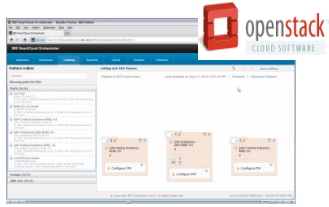




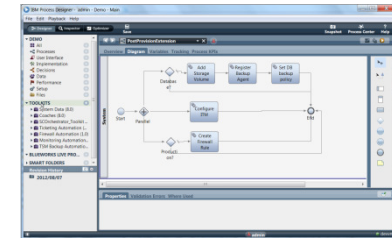


IBM SmartCloud Yönetim Platformu

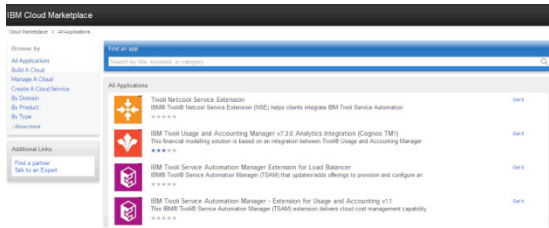
Açık ve ölçeklenebilir
bulut bilişim platformu



Kullanımı kolay iş akışı motoru
yardımı ile bulut bilişim iş süreçleri
tasarımı



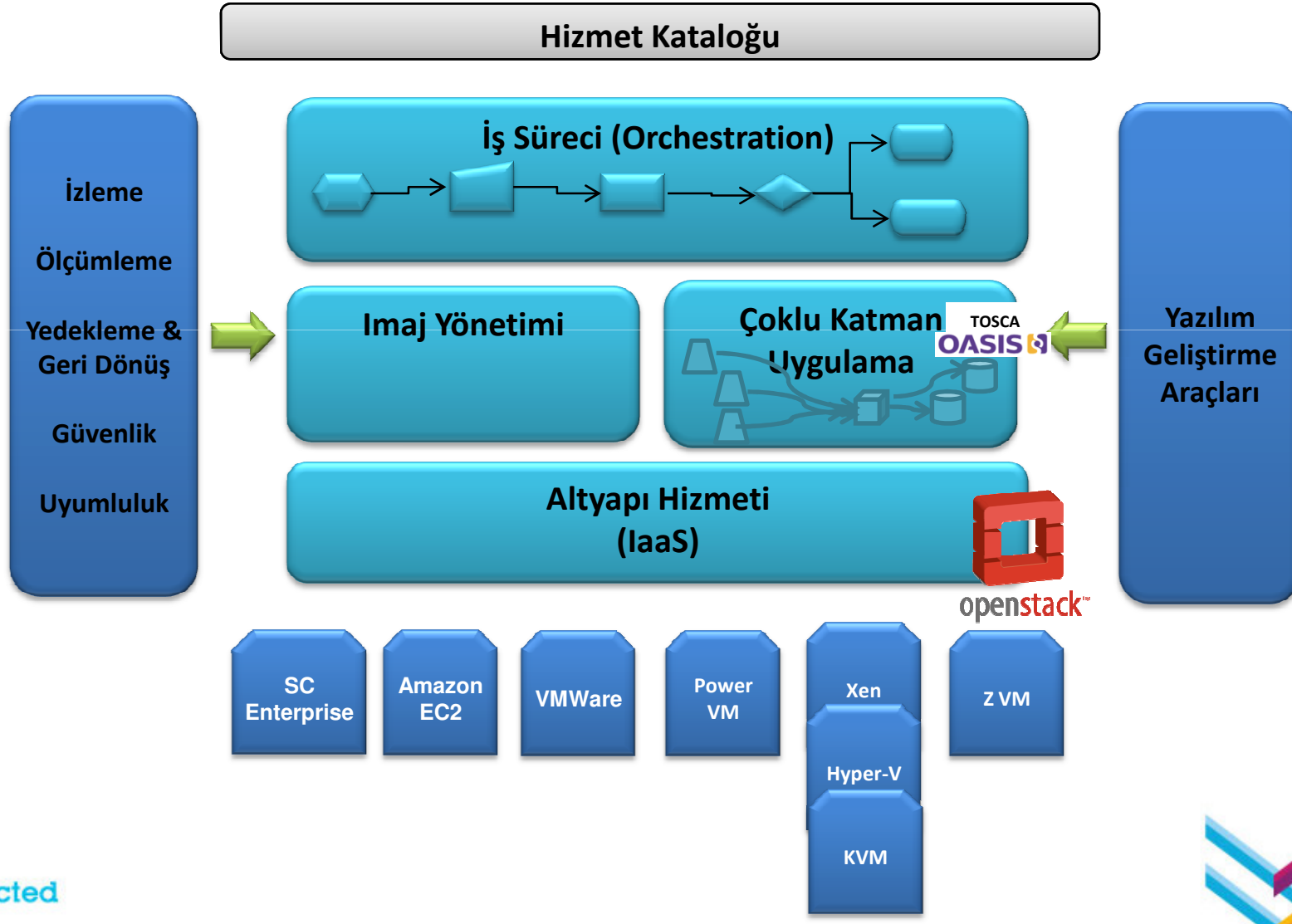
Bulut bilişim kütüphanesi ve
paylaşım platformu



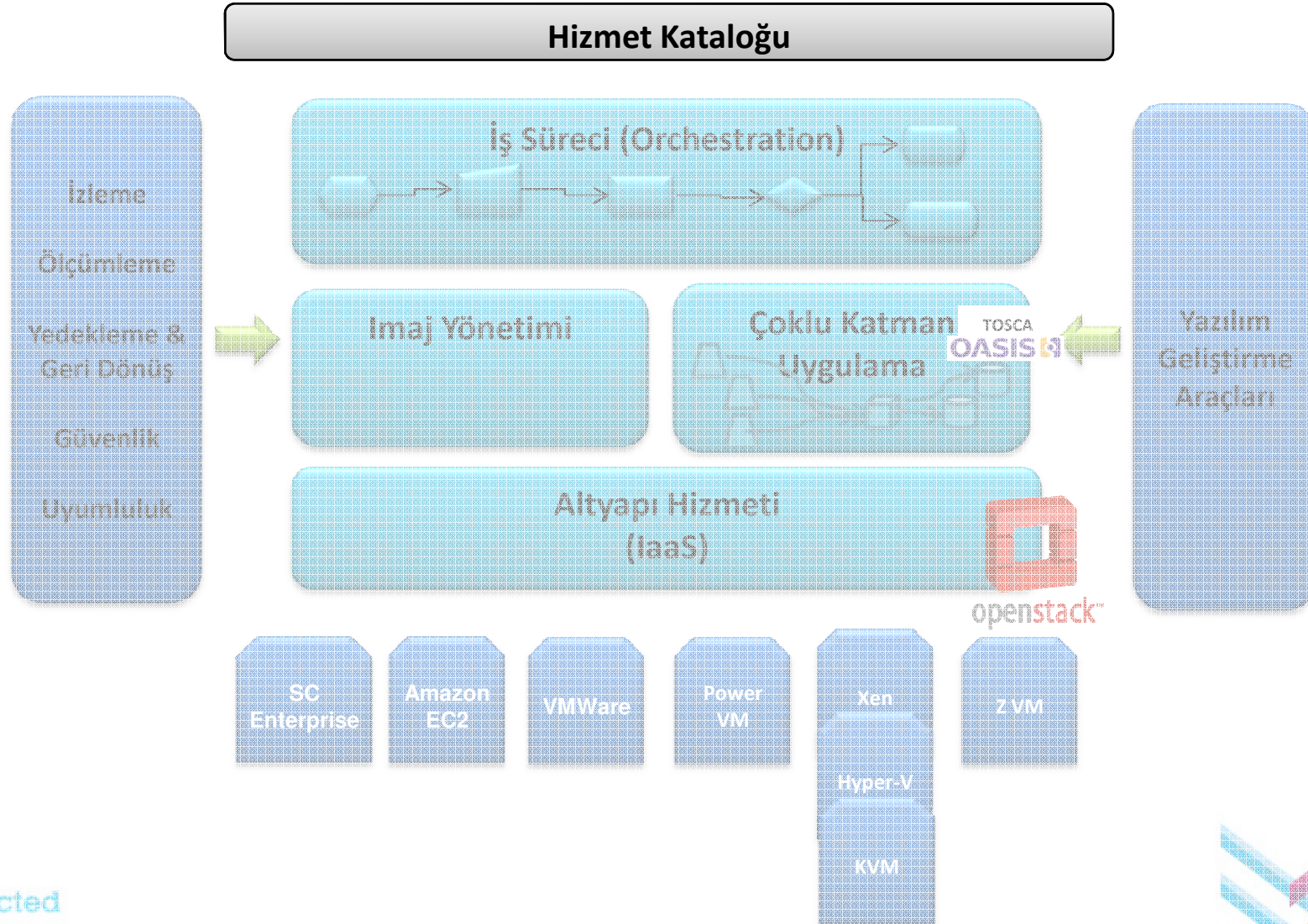
Kullanım hazır otomasyon
paketleri



IBM SmartCloud Orchestrator: Açık ve Ölçeklenebilir Platform



IBM SmartCloud Orchestrator: Açık ve Ölçeklenebilir Platform



IBM SmartCloud Orchestrator: Hizmet Kataloğu

The screenshot shows the IBM SmartCloud Orchestrator Service Catalog interface. At the top, there is a navigation bar with 'Welcome', 'Service Catalog' (selected), 'Service Requests', and 'Instances'. The main content area is titled 'Service Catalog >>' and features a search bar with 'All Categories' and 'Search for a Service...'. The interface is divided into several service categories, each with an icon and a brief description:

- My Favorites:** The service offerings which you marked with the label favorites.
- Network Services:** These service offerings allow you to manage network services.
- Storage and Backup Services:** These service offerings allow you to manage storage and backup services.
- Customer Onboarding Services:** These service offerings allow you to manage customer onboarding services.
- Development and Test Services:** These service offerings allow you to define new development and test services.
- New Servers:** These service offerings allow you to add additional server such as Windows 7 Server, or Linux RH Server.
- Database Servers:** These service offerings allow you to add additional database in an existing environment.
- Software Installation:** These service offerings allow you to install software on a server.

On the right side, there is a 'My Service Requests' section with a '2/3' badge. It shows a summary of requests: 3 in progress, 5 pending, 7 successful, and 2 failed. Below this is a 'Recent Activity' list with 10 items, each with a status icon and a request ID:

- Server Provisioning Request (1067397)
- Storage Request (1067396)
- Network Request (1067395)
- Backup Request (1067394)
- Customer Onboard Request (1067393)
- Customer Onboard Request (1067392)
- Customer Onboard Request (1067391)
- Database Request (1067390)
- Windows 7 Server Request (1067389)
- LDAP Server Request (1067387)

At the bottom right of the 'My Service Requests' section, there is a link: 'Manage My Service Requests...'



Windows 7 Sunucu Talebi

IBM SmartCloud Orchestrator Administrator | Help | About | Logout

Welcome **Service Catalog** Service Requests Instances

Service Catalog >> New Servers >> New Servers

Windows 7 Server

This service offering allows you to add new Windows 7 server.

[Add to My Favorites...](#)

Linux RH Server

This service offering allows you to add new Linux RedHat server.

[In My Favorites...](#)

Windows XP Server

This service offering allows you to add new Windows XP server.

[In My Favorites...](#)

LDAP Server

This service offering allows you to add new LDAP server.

[Add to My Favorites...](#)

My Service Requests

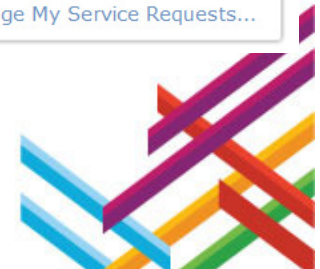
Today | [Since Yesterday](#) | [Last Week](#)

3 in progress	
5 pending	
7 successful	
2 failed	

Recent Activity

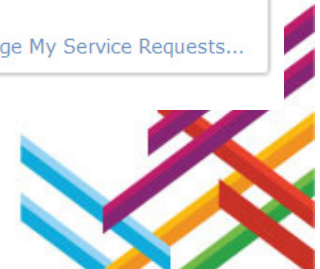
- Server Provisioning Request (1067397)
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- Customer Onboard Request (1067392)
- Customer Onboard Request (1067391)
- Database Request (1067390)
- Windows 7 Server Request (1067389)
- LDAP Server Request (1067387)

[Manage My Service Requests...](#)

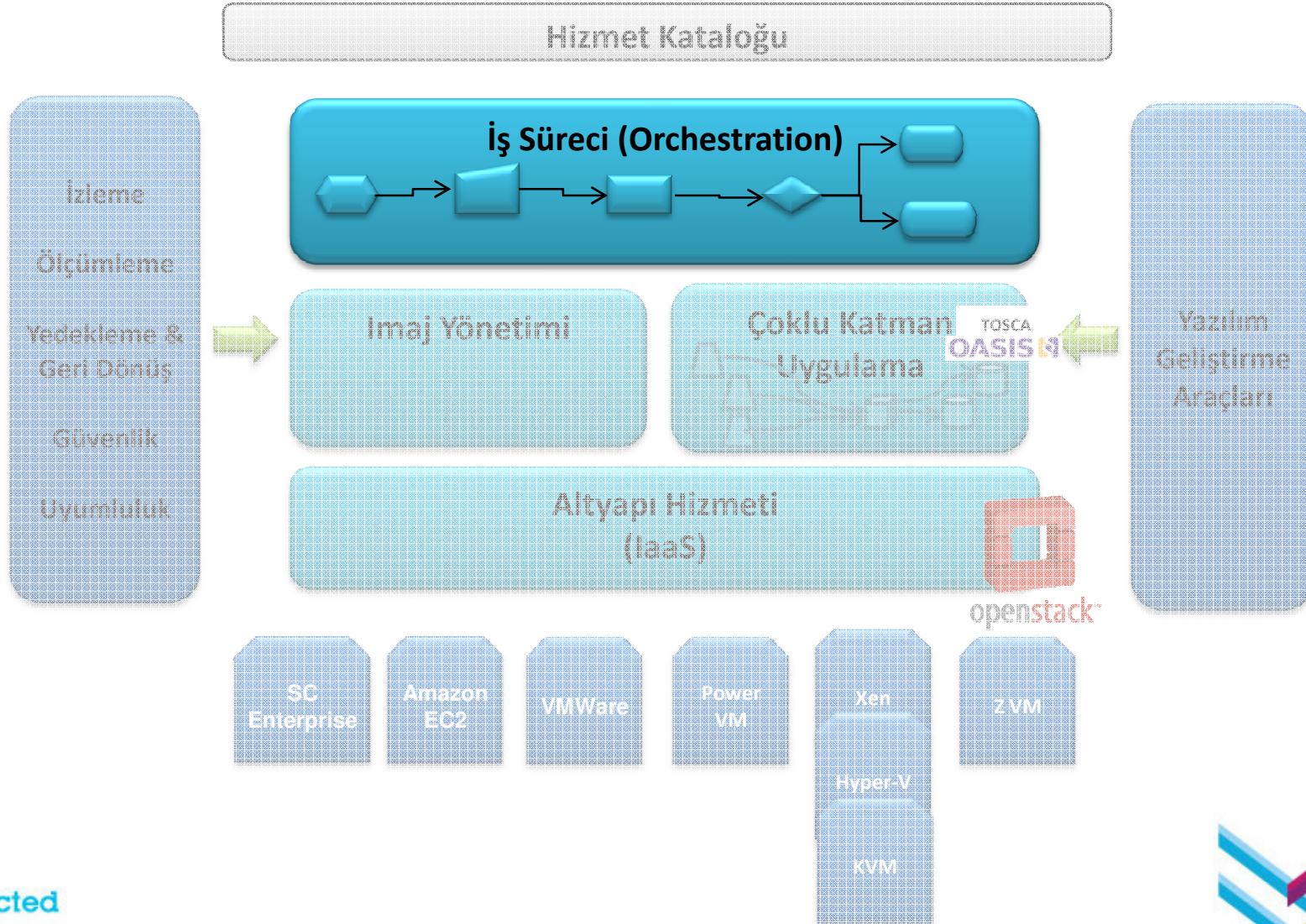


Hizmet Kataloğu Form Tasarımı

The screenshot shows the IBM SmartCloud Orchestrator interface. At the top, there's a navigation bar with 'Welcome', 'Service Catalog', 'Service Requests', and 'Instances'. The 'Service Catalog' tab is active. Below the navigation bar, there's a breadcrumb trail: 'Service Catalog >> New Servers >> Windows 7 Server >>'. A search bar is present with the text 'New Servers' and 'Search for a Service...'. The main content area is divided into two sections. The left section is titled 'Windows 7 Server' and features an icon of a server. Below the icon, it says 'This service offering allows you to add new Windows 7 server.' The right section is titled 'My Service Requests' and shows a summary of requests: 3 in progress, 5 pending, 7 successful, and 2 failed. Below this, there's a 'Recent Activity' list with various requests and their statuses. At the bottom right of the 'My Service Requests' section, there's a link 'Manage My Service Requests...'. The 'Request Details' section on the left contains a form with the following fields: 'Server name' (text input with placeholder 'enter text...'), 'Server type' (dropdown menu with options 'Gold', 'Silver', 'Bronze', and 'Gold' selected), and 'Submit' and 'Cancel' buttons.

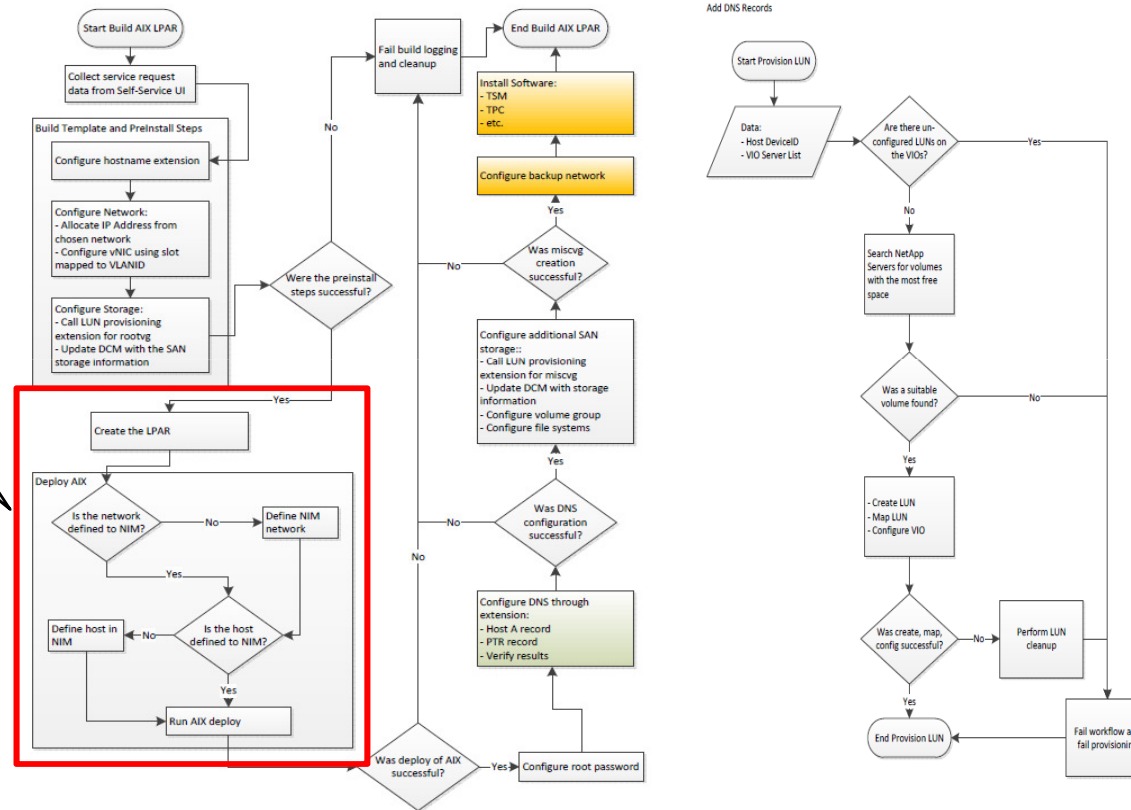


IBM SmartCloud Orchestrator: Açık ve Ölçeklenebilir Platform

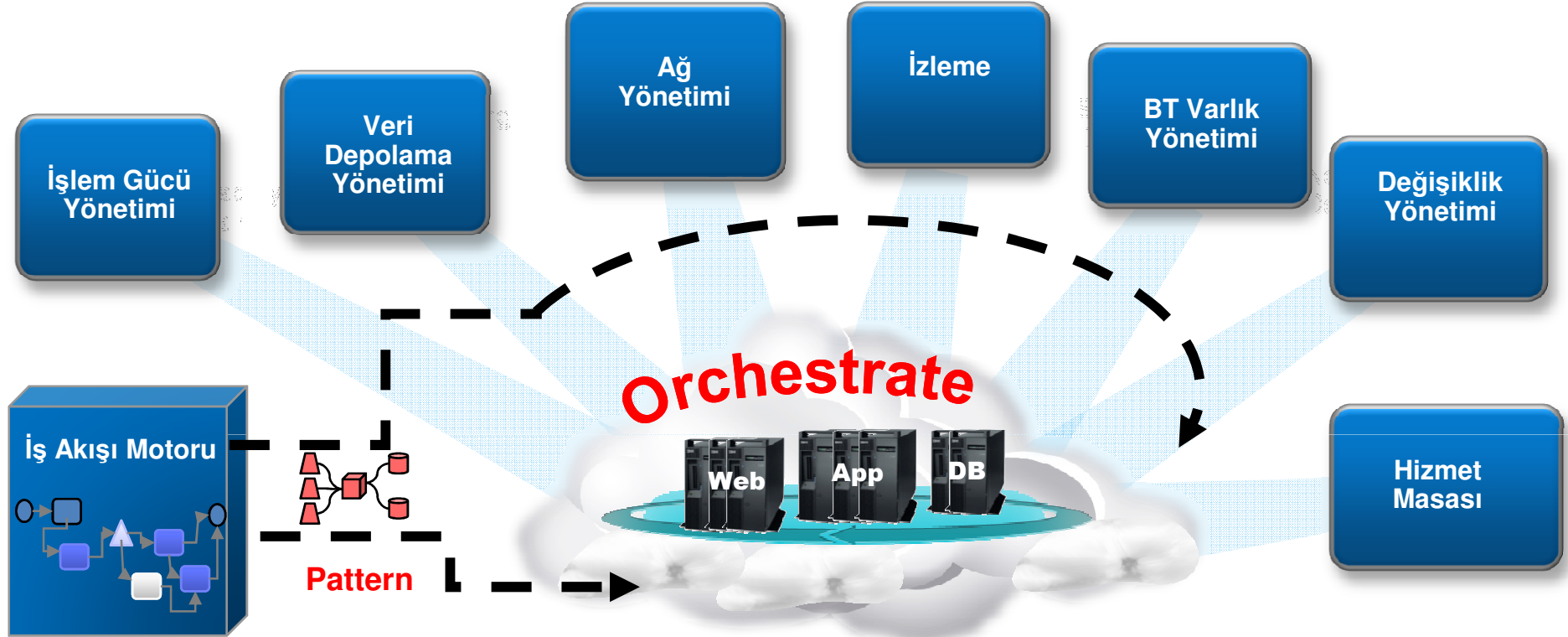


Neden Bir İş Sürecine İhtiyacımız Var?

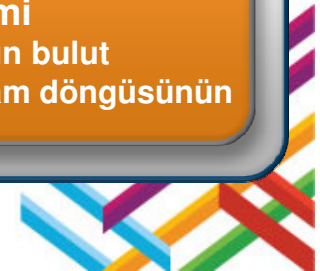
Sunucu Kurulumu



İş Uygulamalarının Yaşam Döngüsü İçerisinde Yönetimi ve İş Süreçleri



 <p>Kaynak Yönetimi Kurulum, yönetim CPU, depolama ve ağ kaynakları</p>	 <p>İşyükü Yönetimi İşyüküne uygun kaynak planlama, yerleştirme ve optimizasyon</p>	 <p>Hizmet Yönetimi İş uygulamalarının bulut ortamındaki yaşam döngüsünün yönetimi</p>
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IBM SmartCloud Orchestrator: Grafiksel İş Akışı Motoru

İş süreci için versiyonlama, debug ve optimizasyon araçları

İş süreci hazırlığını hızlandırmak için hazır otomasyon paketleri ve kütüphaneler

Grafiksel sürükle-bırak editör

İş akışı bileşenleri

Sürükle-bırak yöntemi ile otomasyon paketi fonksiyonlarının iş sürecine eklenmesi

TOOLKITS

- System (8.0)
- Coaches (8.0)
- Firewall Automation (1.0)
- Ticketing Automation (1.1)
- Backup Automation (1.1)
- All
- Processes
- User Interface
- Implementation
- Decisions
- Data
- Performance
- Setup
- Files

BLUEWORKS LIVE PROCESSES

SMART FOLDERS

- Favorites
- Changed today
- Changed this week
- Validation errors
- Revision History

Participant

Integration Service

- Cancel Backup
- Create Backup Policy
- Delete Backup Policy
- Register Backup Agent
- Request Backup
- Unregister Backup Agent
- Update Backup Policy

Behavior

- Loop Type: None
- Multi Instance Looping
- Simple Looping

System ID: bpdid:6311b1e4d26a3b04:4d0d9572:138e78d4282-7f7b



SCPO Demo Fabio - Part 05

IBM Process Designer - admin - Sample_Support_vSys_ProcessApp - Main

File Edit Playback Help

Designer Inspector Optimizer Save Snapshot Process C

SAMPLE_SUPPORT_...
All
Processes
User Interface
Implementation
Decisions
Data
Performance
Setup
Files

TOOLKITS
System Dat...
Coaches (8...
SCOrchestr...
SCOrchestrator...
NetworkAttach...
SCOrchestrator...
NetworkLoadB...
All
Processes
User Interface
Implementati...
Decisions
Data
Performance

MediaWiki Post Processing

Type Processes
Business Process Definitions 6
Delete Virtual System Instances
Deploy Virtual System Pattern
MediaWiki Post Processing (SCOrchestrator_S...
Mount Additional Filesystems in VMs
Register VMs to Load Balancer
Wait until vSys is deployed

Kullanıma hazır otomasyon paketleri

```
graph LR; Start(( )) --> D1{ }; D1 --> Task1[Mount Additional Filesystem...]; Task1 --> D2{ }; D2 --> D3{ }; D3 --> Task2[Notify Completion]; Task2 --> End((End)); D2 --> D3; D3 --> End;
```

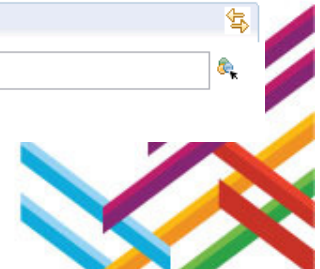


The screenshot displays the IBM Process Designer interface. The main window shows a workflow diagram for 'MediaWiki Post Processing'. The diagram includes a 'Start' node, a 'Collect Parameters' task, a decision diamond 'Add Filesystem?', a 'Mount Additional Filesystem...' task, another decision diamond, a 'Production n' task, a 'Register VMs to Load Balancer' task (highlighted with a yellow callout box), a third decision diamond, a 'Notify Completion' task, and an 'End' node. The callout box contains the text: 'Sürükle bırak ile kolay kullanım'.

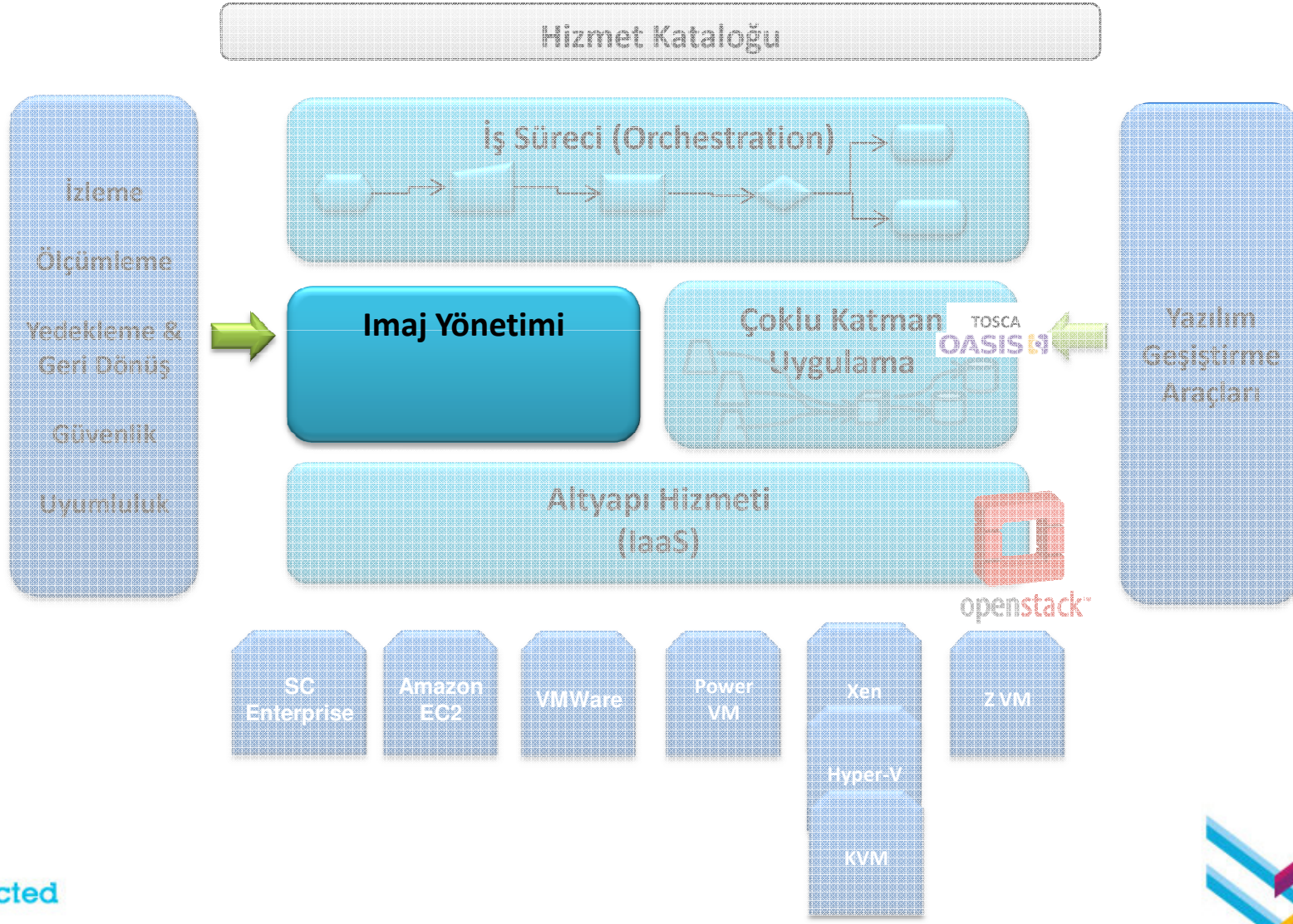
The interface includes a top menu bar with 'File', 'Edit', 'Playback', and 'Help'. Below the menu is a toolbar with 'Designer', 'Inspector', and 'Optimizer' tabs, along with a 'Save' icon. The left sidebar shows a project tree with categories like 'SAMPLE_SUPPORT...', 'TOOLKITS', and 'BLUEWORKS LIVE P...'. The bottom of the screen features a 'Properties' panel with 'Input Mapping' and 'Output Mapping' sections.

Input Mapping:
tw.local.operationContext.serviceId → virtualMachines(List...

Output Mapping:
publicIP (String) →

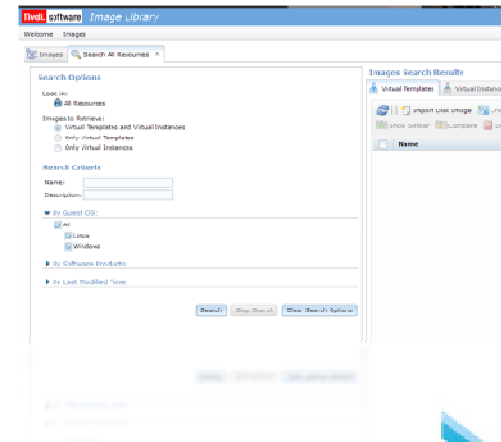
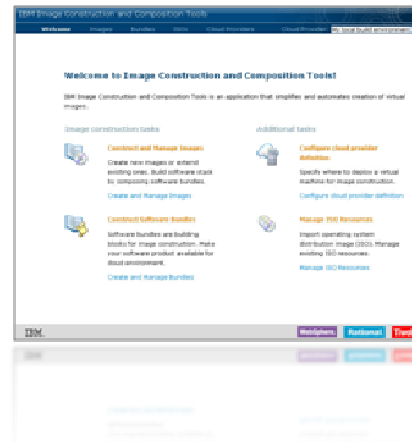
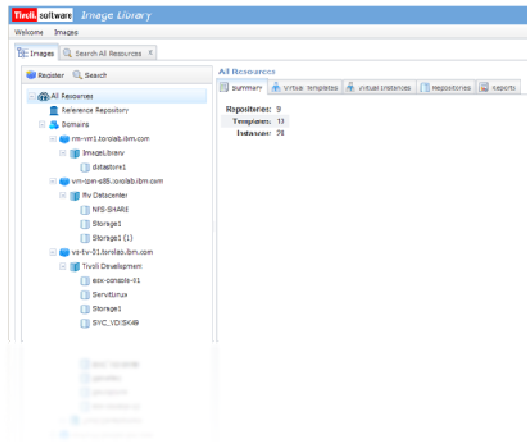


IBM SmartCloud Orchestrator: Açık ve Ölçeklenebilir Platform

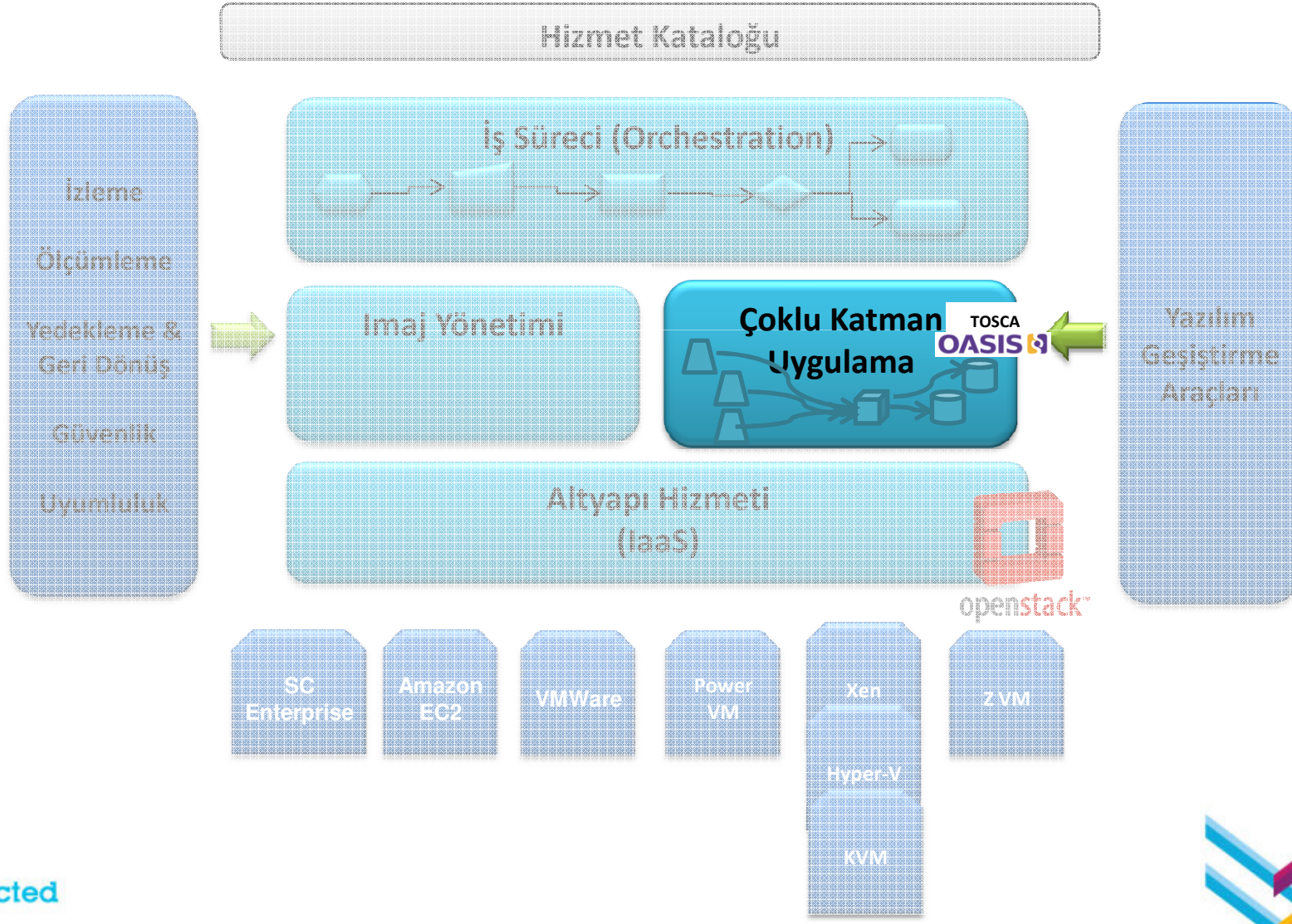


Imaj Yaşam Döngüsü Yönetimi

- Gelişmiş **Imaj Yaşam Döngüsü** yönetimi & **Imaj Hazırlama Aracı**
- Hypervisor'lar arasında işyüklerinin taşınmasını kolaylaştırmaya yönelik araçlar
- **Hypervisor bağımsız çözüm** (Vmware, Hyper-V, Xen, LPAR, zVM)
- Imaj yayınlama, versiyonlama ve **imaj çoklu imaj depolarını yönetimi**
- Gerçek zamanlı imaj aktivasyonu ile şablonlar ve imajlar üzerindeki özelleştirmelerin daha hızlı ve kolay devreye alınması
- **Imaj yama yönetimi ile** tüm sanal sunucuların kritik yamalarını takibi



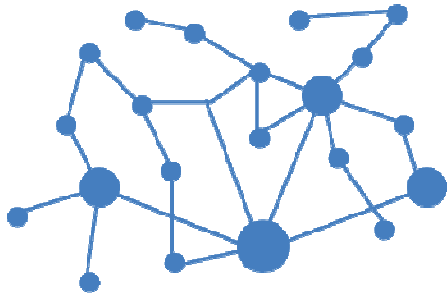
IBM SmartCloud Orchestrator: Açık ve Ölçeklenebilir Platform



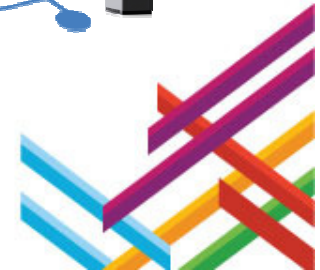
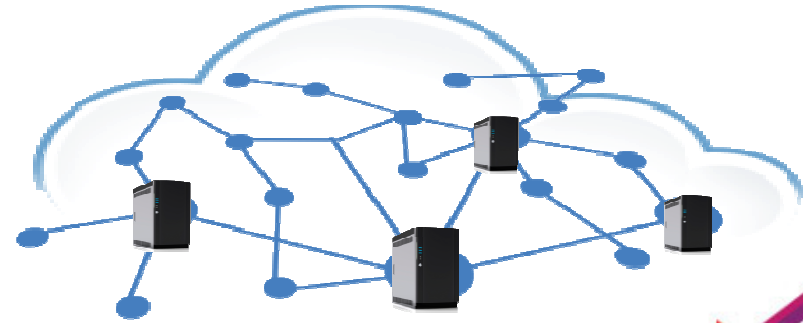
Uygulamaların Kamu ve Özel Bulut Bilişim Platformlarına Patern Bazlı Dağıtımı

- **Sanal uygulama paternlerini** kullanarak dakikalar içerisinde hızlı uygulama dağıtımı
- **Dinamik, politika tabanlı, esnek ve ölçeklenebilir** işyüklerinin yönetimi
- Özel ve kamu bulut bilişim platformları arasında **paternlerin geçişinin ve dağıtımının sağlanması**
- İşyükü topolojilerinin ve paternlerin gerksinimlere göre (**ölçeklenebilirlik ve erişilebilirlik**) oluşturulması ve bulut bilişim ortamında izlenmesi

Patern Yaratılması



Uygulama Dağıtımı



Örnek Senaryo : Çoklu Katman SAP Hizmeti

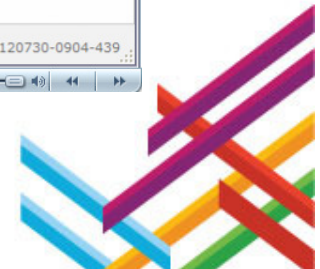
The screenshot displays the IBM SmartCloud Orchestrator interface in a Mozilla Firefox browser window. The main content area is titled "Editing SAP ERP Pattern" and shows a pattern editor with a list of parts on the left and a visual representation of the pattern on the right. The parts list includes:

- OS Part (RHEL-57-64-CCS)
- RHEL55-32-Small
- SAP-Central Instance-RHEL-61
- SAP-Database-DB2-RHEL-61
- SAP-Dialog Instance-RHEL-61
- win2003x64.basic

The visual representation shows three instances of the pattern, each with a "Configure ITM" button. Two callout boxes provide additional information:

- Sanal şablonlar, yazılım paketleri, betikler, ek konfigürasyonlar (disk, ağ kartları, kullanıcı vs...)
- Sürükle bırak ile işyükü şablonlarının oluşturulması

The interface also shows a search bar, a "Showing parts for ESX" section, and a "Scripts (3/3)" section. The bottom of the window displays the copyright information: "© Copyright IBM Corporation 2011. All Rights Reserved." and the version number "4.0.0.0-20120730091401 / 20120730-0904-439".



Uygulama Şablonları ve Ölçeklenebilirlik Konfigürasyonu

The screenshot displays the IBM Workload Deployer interface within a browser window. The main workspace shows a dependency diagram with the following components and relationships:

- SugarCrmApplication** (SugarCrmApp) connects to **SugarCrmDb** (SugarCrmDb).
- SugarCrmApp** is hosted on **WebServerTier** and depends on it.
- SugarCrmDb** is hosted on **DatabaseTier**.
- A **TierScalingPolicy** is associated with the **WebServerTier**.

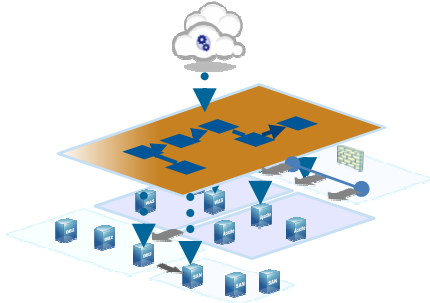
The right-hand pane shows the configuration for the **TierScalingPolicy** applied to the **WebServerTier**:

- Scaling Type:** CPU Based
- Scaling in/out when CPU usage is out of threshold range(%):** Range: 20% - 80%
- Instance number range of scaling in/out:** Range: 1 - 10
- Minimum time (sec) to trigger add/remove:** 120

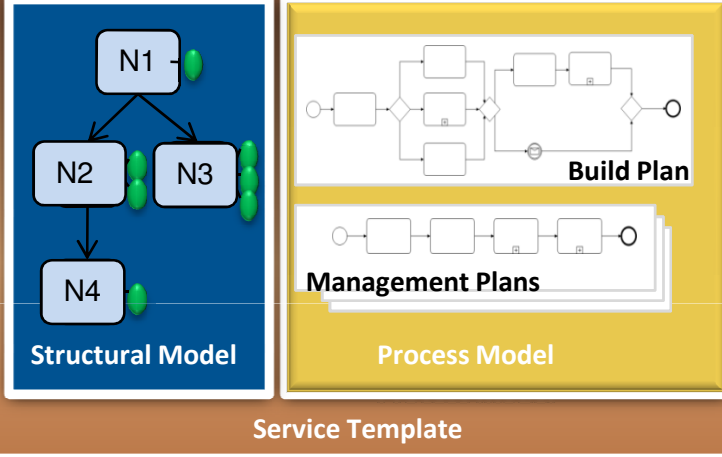


OASIS TOSCA (Topology & Orchestration Specification for Cloud Applications)

Yazılım, uygulama, sanal ve fiziksel altyapı kaynaklarından oluşan model tanımı



Yönetim ve orkestrasyon niteliklerinin model içerisinde tanımlanması



Bulut Bilişim üreticileri arasında patern bazlı geçiş olanağı



Hizmet şablonu içeriği:

- Uygulama ve altyapı bileşenleri
- Bileşenlerin birbirleri ile olan bağlantıları
- Operasyonel gereksinimler (dağıtım, yama, kapatma, vs.)
- Bulut bilişim altyapı gereksinimleri (erişilebilirlik, ölçeklenebilirlik)



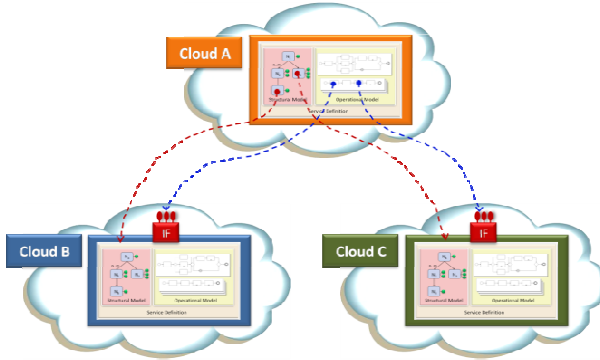
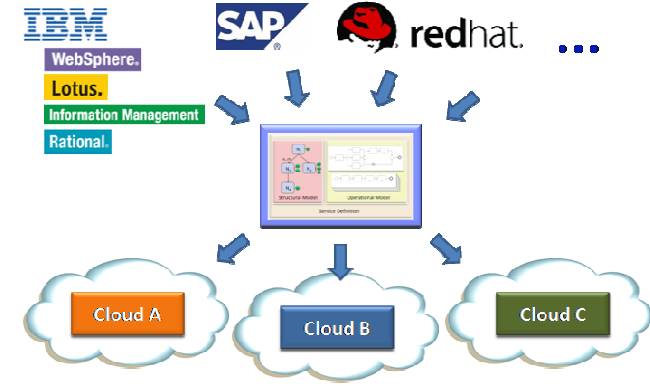
OASIS

- 3M
- ActiveState
- Axway
- CA Technologies
- CenturyLink
- Cisco
- Citrix
- Cloudsoft
- EMC
- Fujitsu
- Google
- HP
- IBM
- Huawei
- Jericho Systems
- NetApp
- Nokia Siemens Networks
- Pricewaterhouse
- Primeton
- Red Hat SAP
- Software AG
- VCE
- Vnomic
- WSO2
- Zenoss

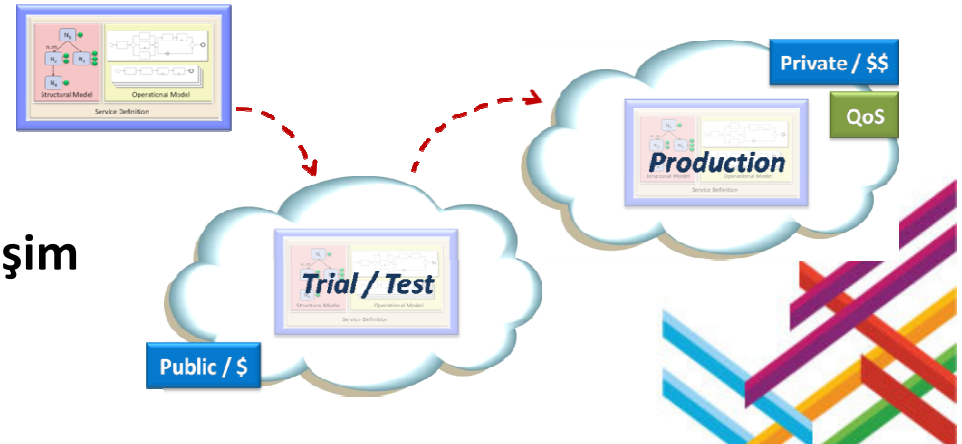


Neden TOSCA?

Bulut Bilişim Hizmetleri için Açık Ekosistem



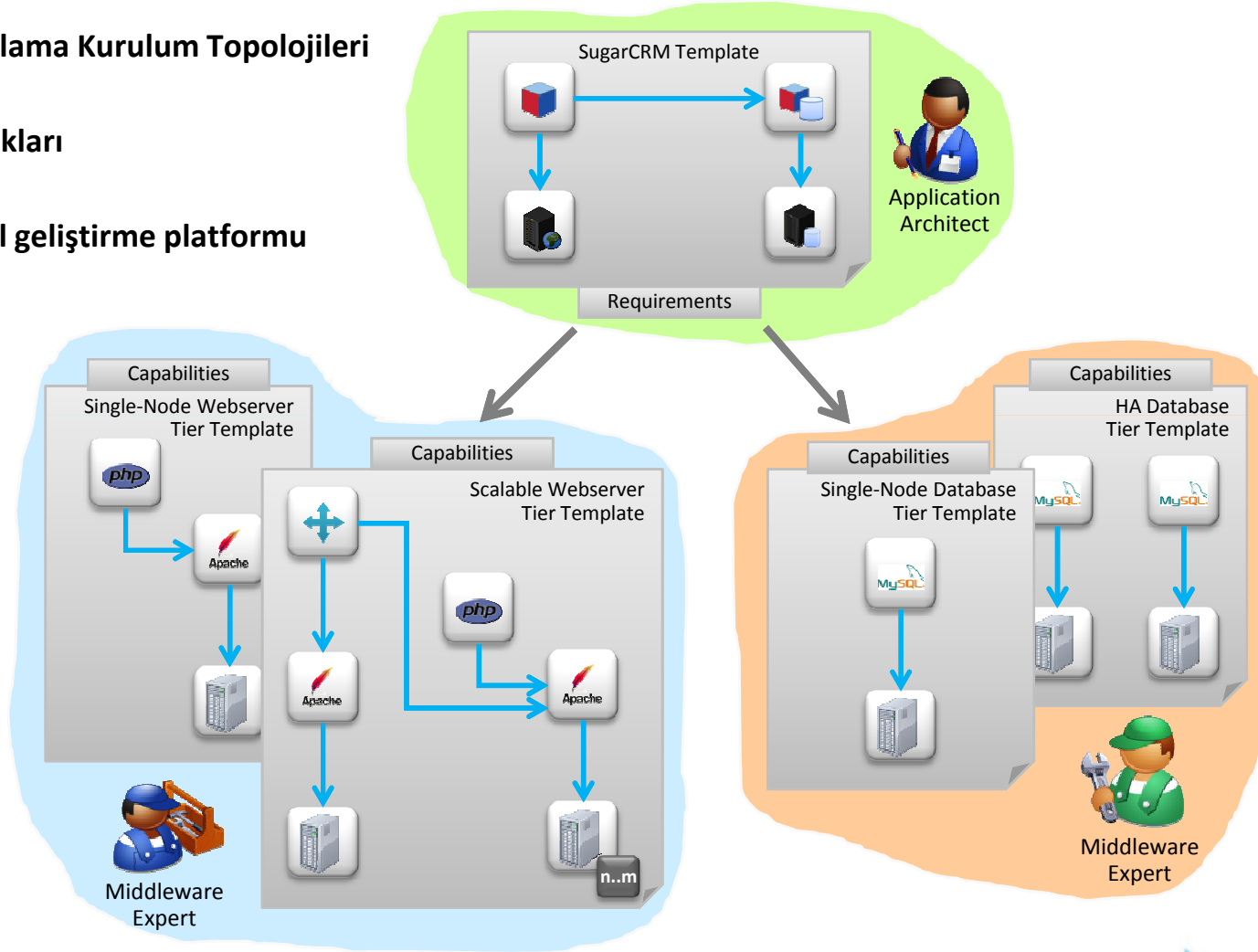
Birlikte Çalışılabilirlik ve Ortak Dilde Karmaşık Uygulama Tanımları



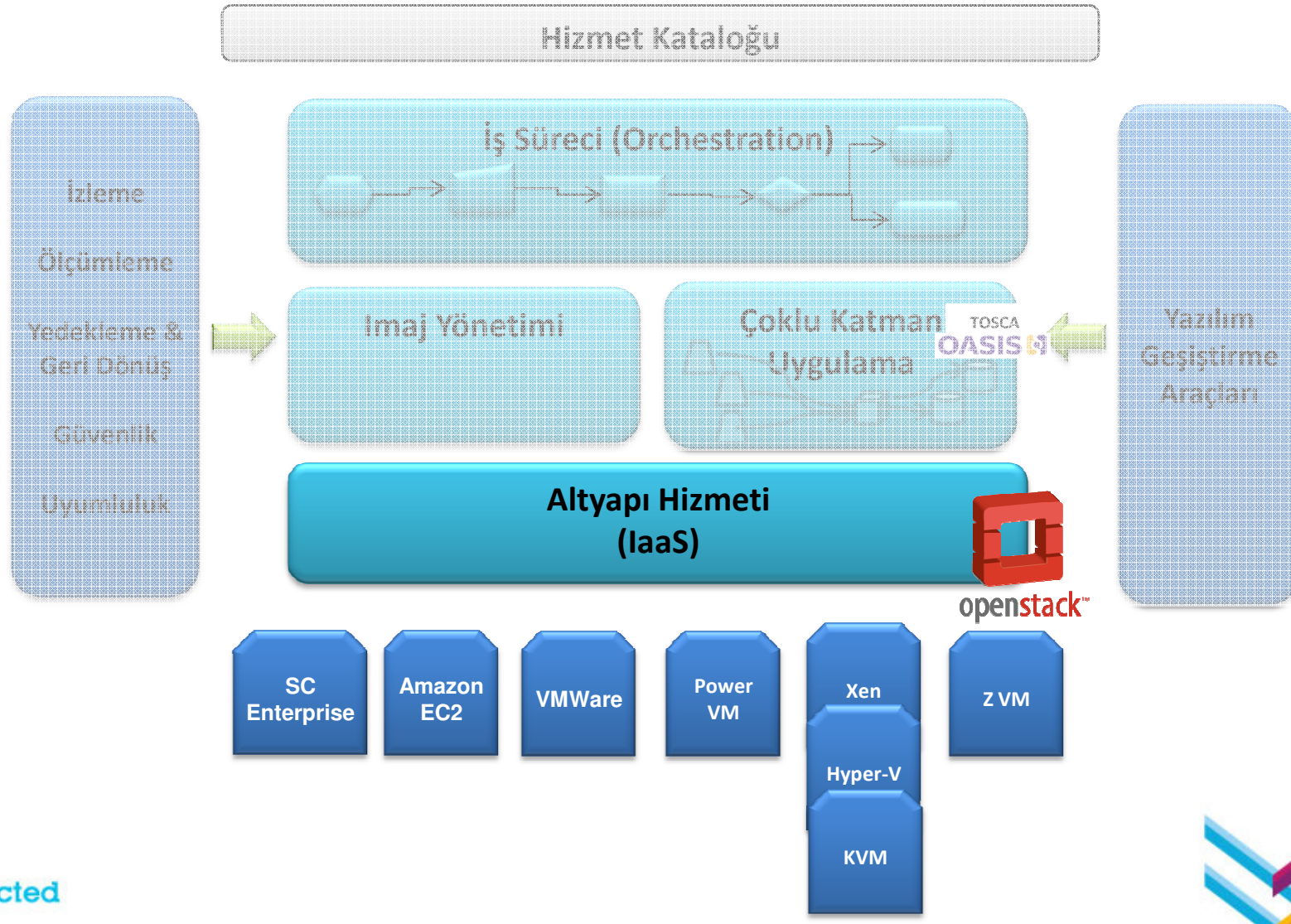
Kolay Kullanılabilirlik ve Bulut Bilişim Hizmetlerinin Adaptasyonu

TOSCA Modelleri ile Esnek Uygulama Kurulum Seçenekleri

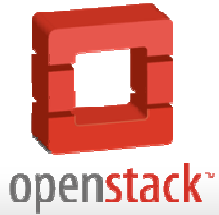
- ✓ Esnek Uygulama Kurulum Topolojileri
- ✓ Görev ayrılıkları
- ✓ Ortal model geliştirme platformu



IBM SmartCloud Orchestrator: Açık ve Ölçeklenebilir Platform



OpenStack Bulut Bilişim Platformu



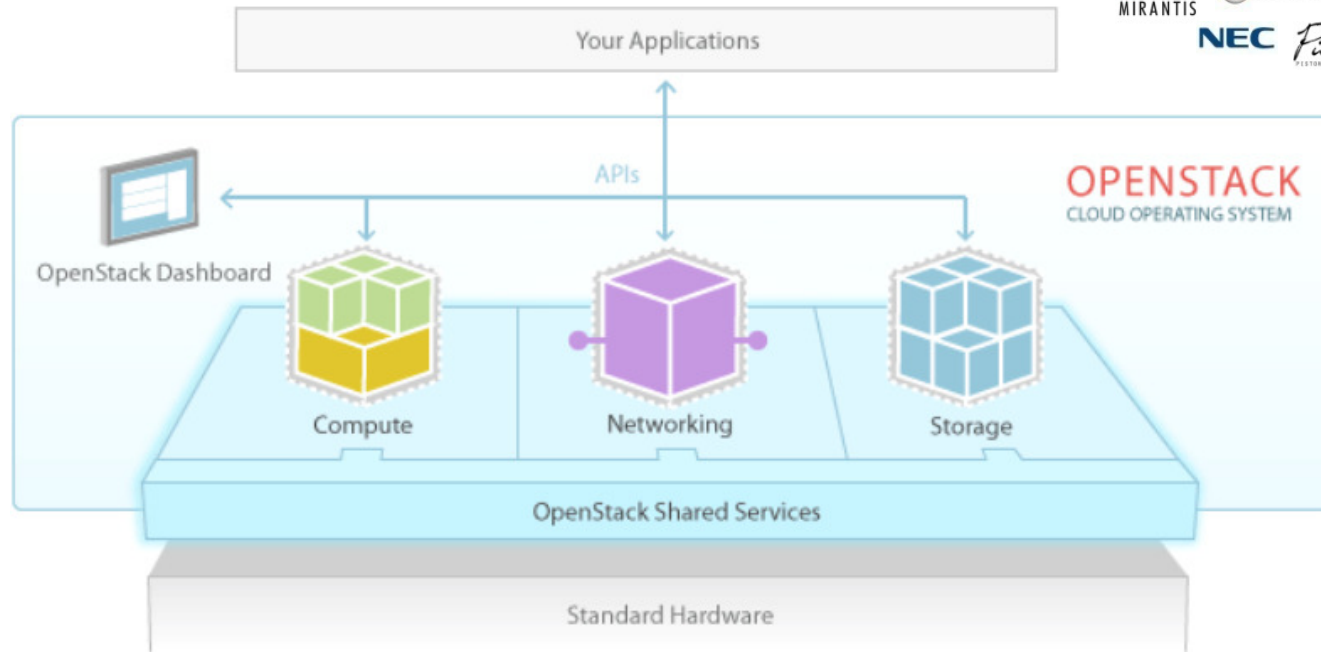
OpenStack hem açık ve hem de özel bulut platformlarını desteklemek üzere, açık kaynak bulut bilgi işlem platformu oluşturmak için çalışan geliştiriciler oluşturduğu küresel bir işbirliğidir.

Platinum Sponsors

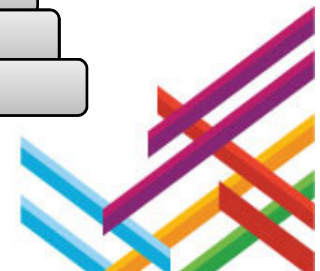
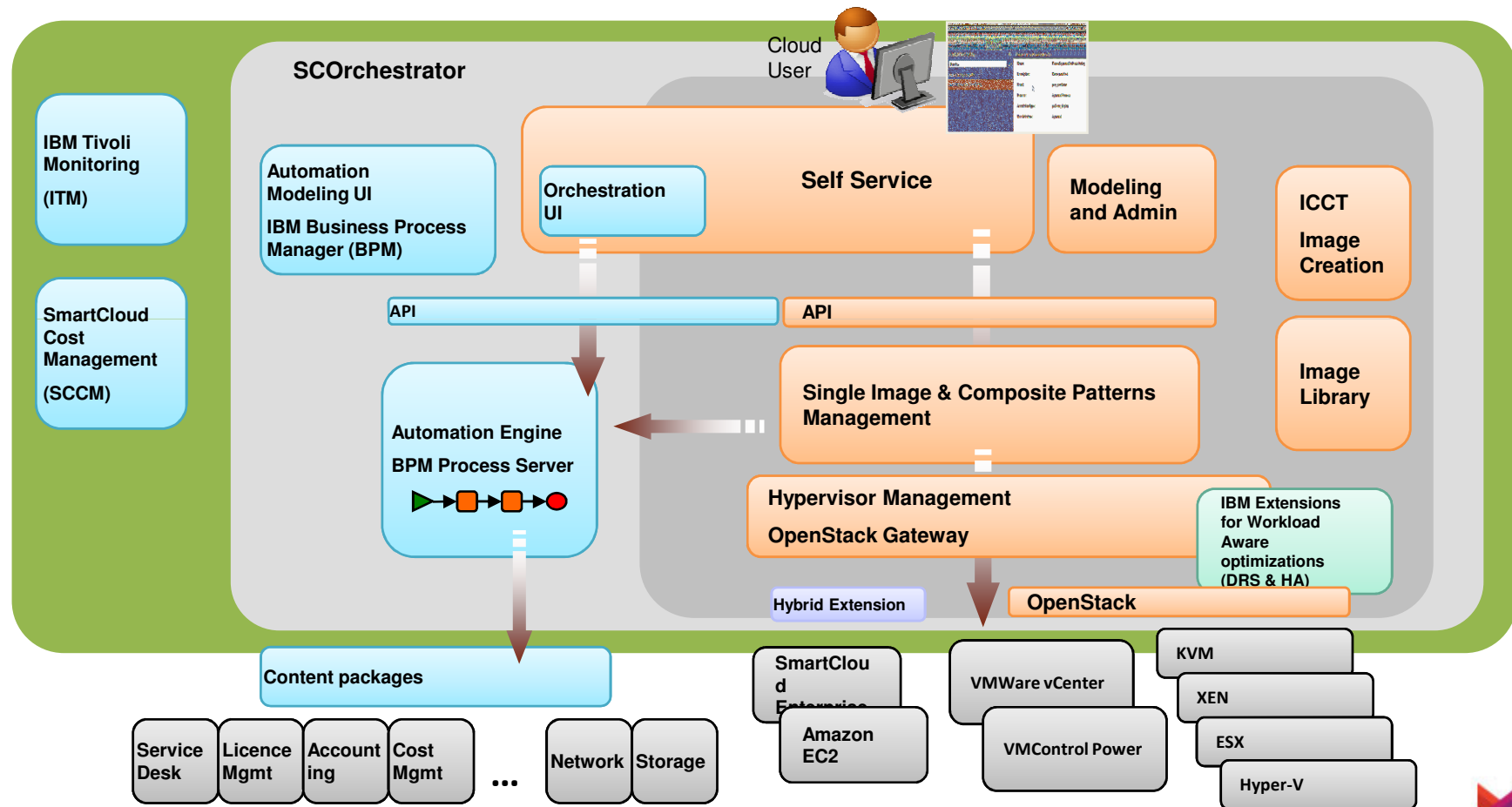


APR 2012	Exponential growth in 1 YR		APR 2013
150	Contributors	859	Contributors
2600	Individuals	9100+	Individuals

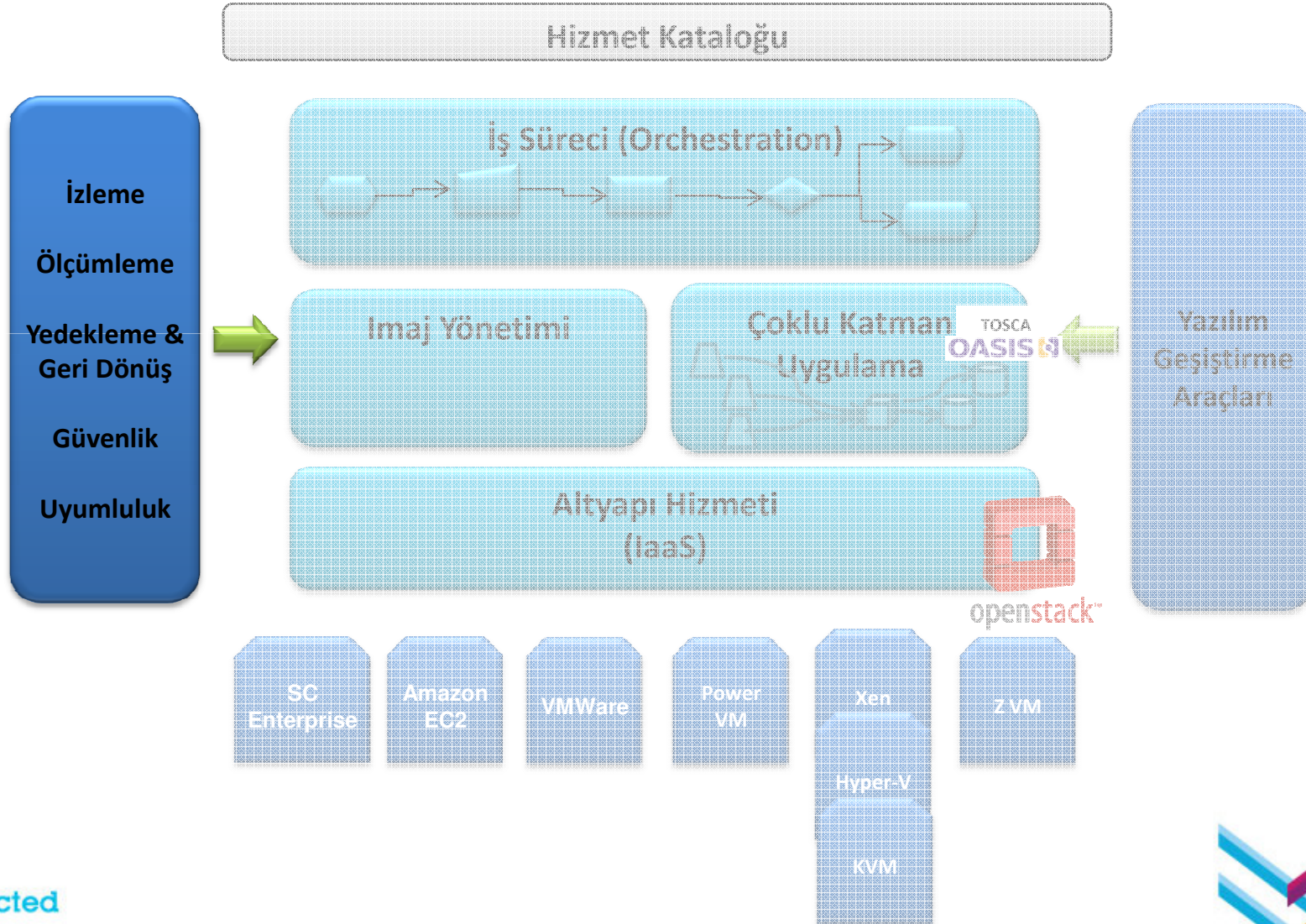
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IBM SmartCloud Orchestrator Mimarisi



IBM SmartCloud Orchestrator: Açık ve Ölçeklenebilir Platform



Merkezi Altyapı İzleme: Fiziksel – Hypervisor – Sanal Sunucular

Durum İzleme Konsolu
Tek bir konsoldan izleme

What-If
Kapasite planlama senaryoları

Durum İzleme Konsolu

Kapasite Analizi

Performans ve Analitik Değerlendirme

Politika tabanlı optimizasyon önerileri

Bütünleşik İzleme Altyapısı

Kapasite Planlama

Entegrasyon
Tivoli Servis Yönetimi portföyü ile entegrasyon

Topoloji görünümü

Raporlar
Sağlık ve trendler ile ilgili
Cognos tabanlı raporlar



Merkezi İzleme Konsolu

Tivoli View: All tasks Welcome cesar Help | Communities | Logout

VMware Cluster Dashboard

Scorecard Widget

Last Update: 10/3/11 12:15 PM

Datacenter	Cluster	Server	Storage	Network
<input checked="" type="radio"/> Austin	Austin_Prod	✘	✘	✔
<input type="radio"/> RTP_SAPM	Test_Cluster	⚠	⚠	✔
<input type="radio"/> RTP_SAPM	BladeCenter_Cluster_32bit	⚠	✔	✔
<input type="radio"/> RTP_SAPM	Development_Cluster	⚠	✔	✔
<input type="radio"/> RTP_SAPM	BladeCenter_Cluster_64bit	✔	✔	✔
<input type="radio"/> RTP_SAPM	xSeries_Cluster	✔	✔	✔

6 items

Cluster Architecture View

Austin_Prod

Guests Windows Guests: 7 Linux Guests: 5 Other Guests: 0 Unknown: 5	Data Stores Data Stores: 13 NFS: 6 VMFS: 7
VMs VMs: 17 Powered On: 17 Running: 14	Physical Storage SAN Volumes: 0 NAS Volumes: 24 Total Volumes: 24
ESX Servers Servers: 4 Effective Servers: 4 Maintenance Mode: 0	Virtual Network Physical NICs: 8 Physical NICs Down: 0

Cluster Servers

Austin_Prod

Cluster CPU (GHz)

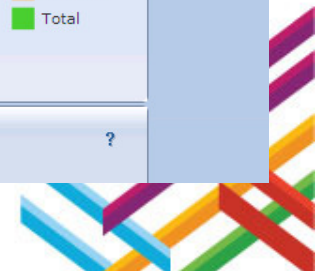
Austin_Prod

Cluster Memory (GB)

Austin_Prod

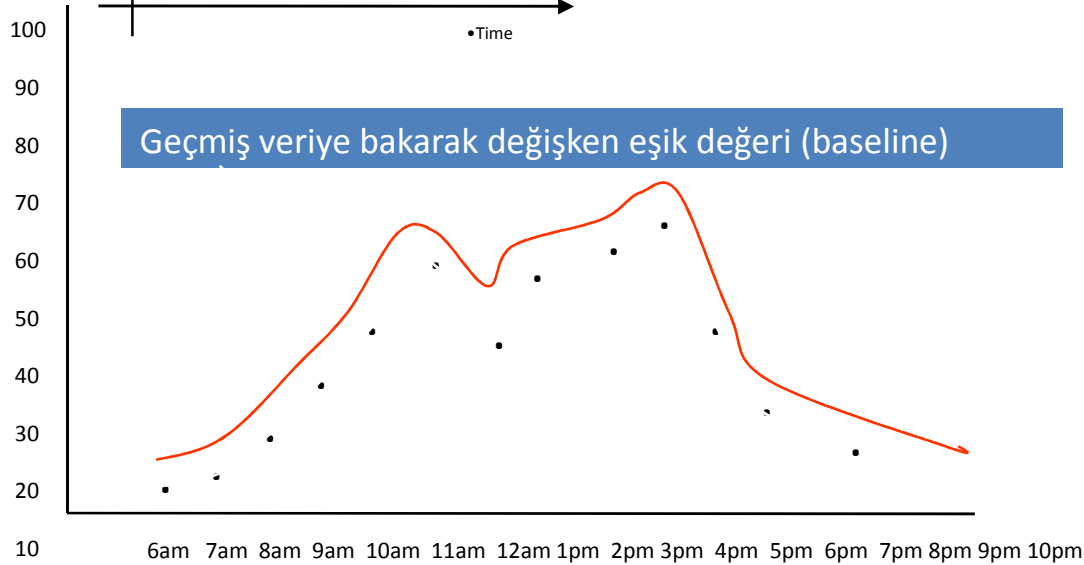
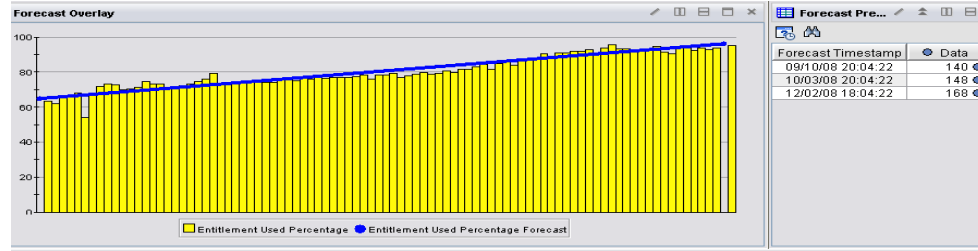
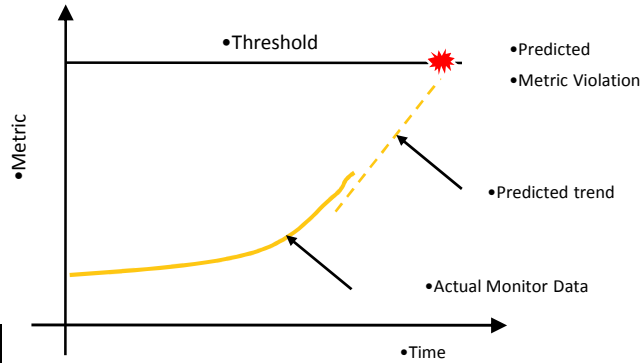
Cluster Storage Capacity (GB)

Austin_Prod

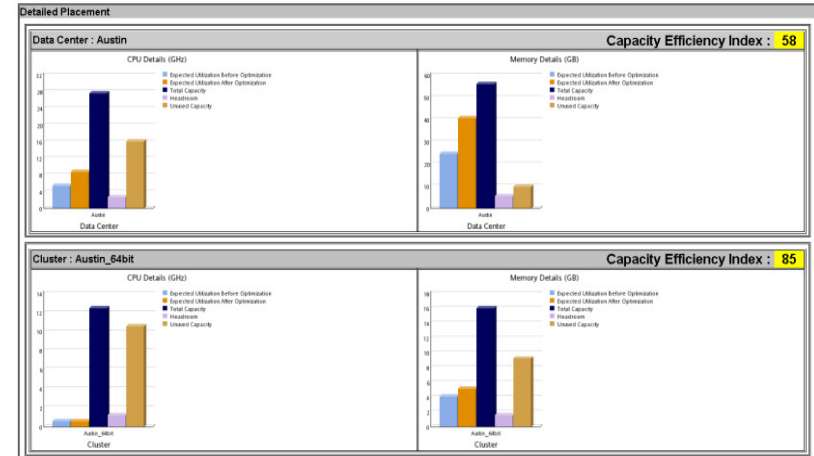


Bulut Bilişim Altyapısı için Kapasite Planlama

- Kaynak kullanımım yakın ve uzak dönemde nasıl olacak?
- Kapasite odaklı En kritik BT kaynaklarım nelerdir?
- Bu ay tüm operasyonlarımı ve yeni projeleri kapsayacak yeterli kapasitem var mı?

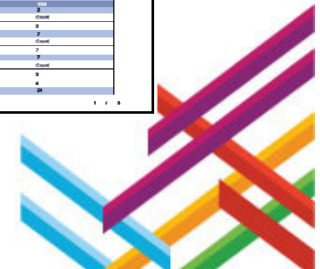
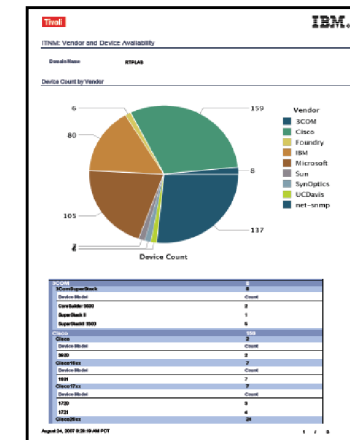
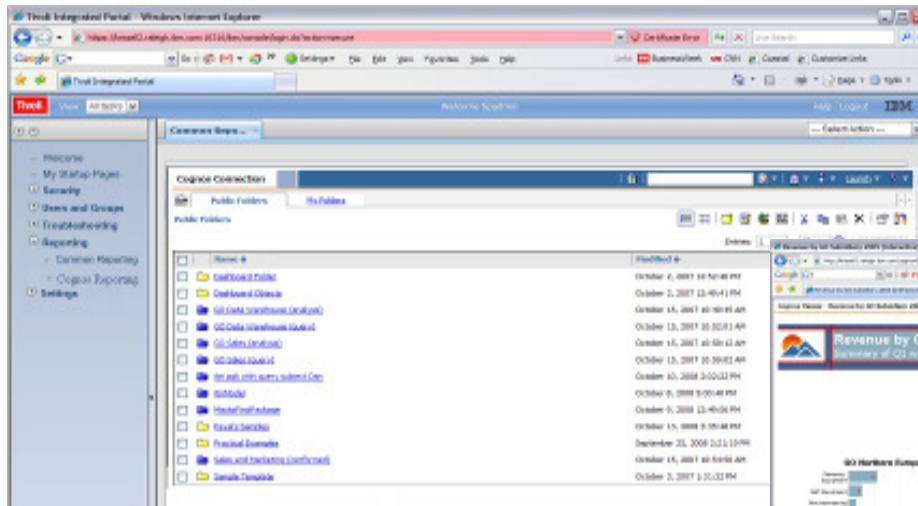


	Current		Recommendation	
Physical Servers	9	4	4	4
Virtual Machines	24	24	24	24
Total Capacity	CPU (GHz)	Memory (GB)	CPU (GHz)	Memory (GB)
	70.57	105.99	27.65	56.00
Total Reservation	26.59	28.89	8.83	40.68
Total Unused Capacity (excluding headroom)	41.21	71.50	16.05	9.72
Capacity Efficiency Index	67.46		58.05	



Kullanım Bazlı Ölçümler ve Faturalandırma

- Hizmetin yaşam döngüsünün (yaratılma, değişiklik, kaldırılma) ve atanan kapasitesinin takibi
- Maliyetlerin departman, kullanıcı, proje vs. metriklere göre kırılımının takip edilmesi
- Kullanım bazlı veya kaynak atanmasına yönelik bilgilere göre faturalama
- Ortak paylaşımlı kaynakların kullanım bazlı raporlanması ve faturalanması





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