

Zenoss ZenPacks

Virtualization & Cloud

Extend Unified IT Monitoring of Dynamic Infrastructures

Business Challenge

A key element in successfully monitoring today's dynamic, complex infrastructures is extensibility—the ability to rapidly extend monitoring to new technology resources. IT operations teams need a way to assimilate virtual and cloud technologies into standard IT monitoring processes without incurring unnecessary costs or delays in service delivery schedules.

What is a ZenPack?

A ZenPack is a software module that easily extends the monitoring reach of Zenoss Service Dynamics to all corners of your service delivery infrastructure. It collects performance and availability data and monitors events originating from specific managed resources. ZenPacks plug into Zenoss Service Dynamics or Zenoss Core, displaying relevant performance and availability data from any resource in the Zenoss unified console as part of your standard resource management, service impact, or analytics views.

ZENPACK CLASSIFICATION

Commercial	Zenoss produced and supported. Available only to Zenoss Service Dynamics customers.
Open Source	Zenoss produced and available as free downloads. Zenoss supported for Zenoss Service Dynamics customers; community supported for non-commercial customers.
Community	Zenoss Community produced and supported.
Custom	Zenoss users can write their own ZenPacks or leverage Zenoss Professional Services for ZenPack development.

Zenoss has created more than 100 ZenPacks to help customers monitor common enterprise resources. IT organizations can also create their own custom ZenPacks or leverage the 250+ ZenPacks created by the global Zenoss community.

ZenPacks for Virtual and Cloud Resources

Zenoss offers ZenPacks for the most common virtualization and cloud platforms so that organizations can quickly and effectively monitor these resources. Zenoss Service Dynamics was built from the ground up to deal with the real-time changes in these dynamic technologies, so you don't need massive investments in professional services for implementation. You simply install the ZenPack you need and point it at the resources you need to monitor.

Virtual Servers

Zenoss provides ZenPacks for VMware vSphere, Citrix XenServer, and Microsoft Hyper-V virtualization platforms. Each ZenPack is uniquely tuned to the features of each solution, with the available APIs determining what can be monitored. While specific functionality will differ, every ZenPack in this category will:

- Discover hosts, host CPU, virtual machines, resource pools, clusters, virtual disk images, network adaptors, and other key components
- Monitor memory, throughput, CPU utilization, storage, and disk read/write metrics
- Collect events and forward them to the Zenoss console
- Map service impact relationship between components
- Report on networking activity via the Zenoss Console

Cloud Platforms

For services running in the public cloud, ZenPacks for Amazon Web Services and Microsoft Azure provide very similar capabilities to those offered in the virtualization ZenPacks. Only instead of monitoring your on-premises resources, they look at metrics for cloud entities like regions, instances, and subnets on your cloud provider's network. These ZenPacks show how failures in individual cloud components can impact overall service delivery.

For enterprises and service providers who are deploying private or hybrid clouds, Zenoss also offers ZenPacks for OpenStack, CloudStack, and vCloud Director. These ZenPacks enable a tenant view for users of a public cloud, allowing them to monitor the performance and availability of their services and view it as part of their unified environment.

ZenPacks Functionality

ZenPacks give customers the ability to further unify the monitoring of their virtualized and cloud-based infrastructures. The ZenPacks offered directly through Zenoss are developed to help IT operations organizations make their monitoring operations more efficient and effective, and are updated regularly by the Zenoss engineering team to support the latest releases from each ISV or cloud provider.

VIRTUALIZATION AND CLOUD ZENPACKS

ZenPack	ZenPack Type		Features						Cloud Monitoring	
	Commercial	Open Source	Discovery	Performance Monitoring	Event Management	Service Impact/Root Cause Analysis*	Operational Reports**	Health and Utilization Trends/Capacity Planning***	Provider View	Tenant View
Citrix XenServer		✓	✓	✓	✓	✓			NA	NA
Microsoft Hyper-V	✓		✓	✓	✓	✓			NA	NA
VMware vSphere	✓		✓	✓	✓	✓	✓	✓	NA	NA
Amazon Web Services		✓	✓	✓	✓	✓				✓
Apache CloudStack		✓	✓	✓	✓	✓			✓	✓
Microsoft Azure	✓		✓	✓	✓	✓				✓
OpenStack Cloud Monitor		✓	✓	✓		✓				✓
OpenStack Infrastructure		✓	✓	✓		✓			✓	
OpenStack Object Storage (Swift)		✓		✓						✓
VMware vCloud	✓		✓	✓	✓	✓			✓	✓

* Requires Zenoss Service Dynamics Service Impact

** In addition to the standard reports provided in the Zenoss Console

***Requires Zenoss Service Dynamics Analytics

Learn More

ZenPack Catalog: Download currently available ZenPacks from Zenoss and the Zenoss Community

ZenPack Generator: Learn how to quickly and easily create your own ZenPacks