

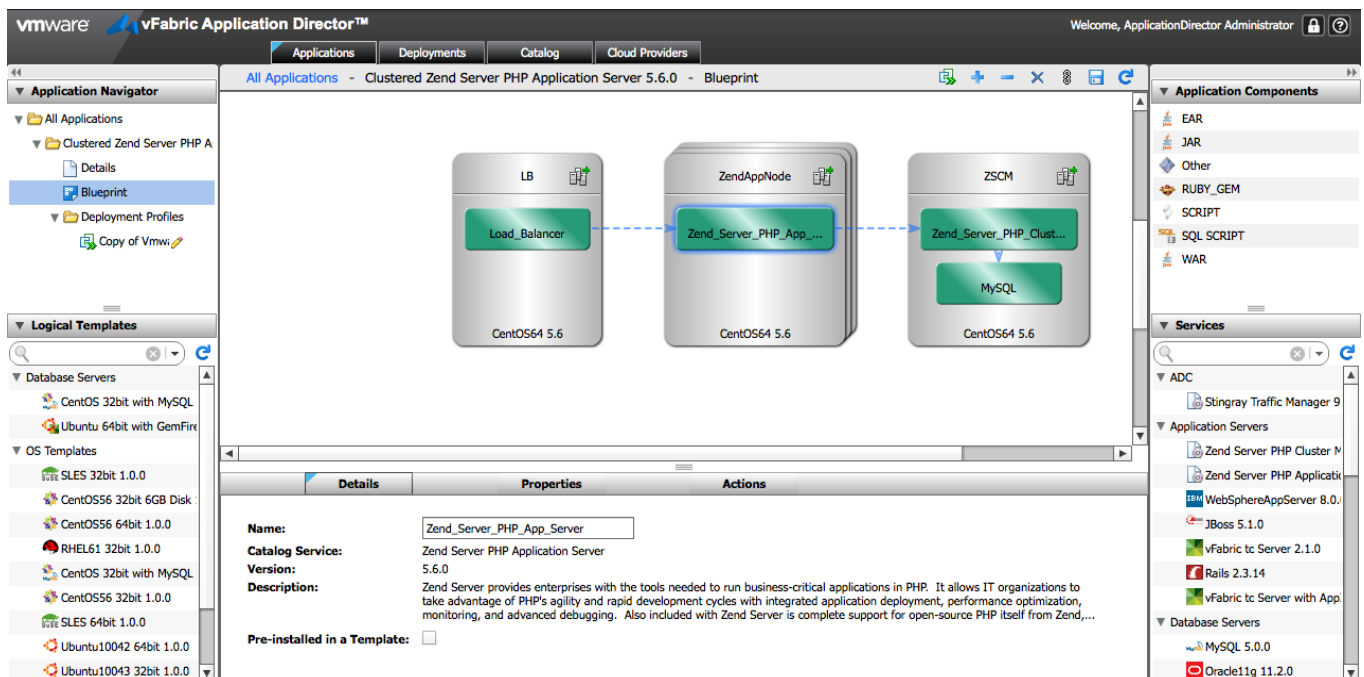
Clustered Zend Server PHP Application Server - Blueprint information

1. OVERVIEW

The purpose of this document is to describe Clustered Zend Server PHP Application Server blueprint in detail. The goal of the blueprint is to allow for provisioning and configuration of cluster of Zend Server (Application Server) instances in automated and repeatable fashion.

The following component and version are installed as part of Clustered Zend Server PHP Application server blueprint :

- (1) Zend Server PHP App Server (Application Server)
- (2) Zend Server Cluster Manager (Cluster Manager)
- (3) Apache Server (Load Balancer)
- (4) MySQL Server.



2. HIGH LEVEL BLUEPRINT DESIGN

Conceptually, the blueprint design consists of the tasks described below. These tasks are listed in chronological order:

- (1) Install MySQL database service on (Cluster Manager)
- (2) Install Zend Server Cluster Manager 5.6 (Cluster Manager)
- (3) Setup Hostname (Application Server)
- (4) Install Zend Server PHP Application Server 5.6 (Application Server)
- (5) Install Apache Server (Load Balancer)

2.1 Files

You will need the following files to configure the scripts and services within this blueprint. Please refer to the following sections for details and their corresponding script/service.

darwin_global.conf
setHostName.sh
zendserver56-configure.sh
zendserver56-install.sh
zendserver56-properties.txt
zscm56-install.sh
zscm56-configure.sh
zscm56-properties.txt

2.2 Install MySQL on Zend Server Cluster Manager (Cluster Manager)

The “Setup MySQL” installs MySQL Database service on Zend Cluster Manager. It’s defined as blueprint service.

Properties:

Details							
Properties			Actions				
Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Override Deployment
db_port	Database port	String	3306		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
db_root_password	Database root p...	String	****		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
db_root_username	Database root u...	String	root		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
global_conf	URL to downloa...	Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

2.3 Install Zend Server Cluster Manager (Cluster Manager)

The “Install Zend Server Cluster Manager” task install ZSCM service on the machine that’s provisioned.

Service Definition

Edit Service Zend Server PHP Cluster Manager 5.6.0

Details

Properties

Actions

Name	Description	Type	Value
zendmanager_license_key		String	
zscm_db_password	Password to be used with zscm_db_user to access the central database for ZSCM	String	
zscm_db_user	Username to access monitoring and other ZSCM databases from the manager and the nodes.	String	
zendmanager_order_number		String	
global_conf	URL to download Darwin global configuration for each node	Content	https://\$(darwin.server.ip):8443/darwin/conf/darwin_global.conf
zend_node_ui_pass	Zend Node password for ZSCM access	Array	
zendmanager_db_port	Zend Cluster Manager MySQL DB Port	String	
zend_api_key_name	Zend Server API key name.	String	
zend_order_number		String	
db_root_password	DB admin password	String	
zend_api_key	Zend Server API key.	String	
zendmanager_db_host	Zend Cluster Manager DB MySQL host address.	String	
zendmanager_ui_pass	Zend Cluster Manager UI password. Can be difrent then node UI password.	String	
db_root_username	DB admin username	String	
zend_license_key		String	
DOWNLOADRPMURL	Zend Server yum configuration and installer scripts URL	String	http://downloads.zend.com/zendserver/5.6.0/ZendServer-5.6.0-

Blueprint Definition

Details			Properties	Actions			
Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Override Deploy
zendmanager_order_number		String			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
global_conf	URL to downloa...	Content	https://\${darwin.server.ip}:8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zend_node_ui_pass	Zend Node pass...	Array		all (ZendAppNode:Zend_Server_PHP_App_Server:zendnode_ui_pass)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zendmanager_db_port	Zend Cluster M...	String		self:MySQL:db_port	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zend_api_key_name	Zend Server AP...	String		vmwarezendcloud	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zend_order_number		String			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
db_root_password	DB admin pass...	String		self:MySQL:db_root_password	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zend_api_key	Zend Server AP...	String		7c87a1e53eb4221b09a673225be3cd2ad29f43a61a4b60e0c1872ee114a6fc44	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zendmanager_db_host	Zend Cluster M...	String		self:ip	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zendmanager_ui_pass	Zend Cluster M...	String		self:MySQL:db_root_password	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
db_root_username	DB admin usern...	String		self:MySQL:db_root_username	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
zend_license_key		String			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOWNLOADRPMURL	Zend Server yu...	String	http://downloads.zend.com/zendserver/5.6.0/ZendServer-5.6.0-RepositoryInstaller-linux.tar.gz		<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Actions:

Details		Properties	Actions
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	
CONFIGURE	Bash Script	#!/bin/bash	
START	Bash Script		

Install Script:

Please refer to **zscm56-install.sh** for copy of the INSTALL Bash script.

Please refer to **zscm56-configure.sh** for copy of the CONFIGURE Bash script

2.4 Setup Host Name (Application Server)

The “Setup Host Name” task sets the hostname for the machine that’s provisioned. It’s defined as a blueprint script.

Properties:

Details		Properties	Actions			
Name	Description	Type	Blueprint Value	Required	Secured	Overridable at Deployment
IP_ADDRESS		String		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOST_NAME		String		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DOMAIN_NAME		String		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Actions:

Install Script:

Please refer to file `setHostName.sh` to copy the script as the INSTALL Bash Script.

2. Install Zend Server PHP Application Server (Application Server)

2.5 Install Zend Server PHP Application Server (Application Server)

The “Install Zend Server PHP Application Server 5.6.0” task installs a server instance of Zend Server PHP Application Server 5.6.0. It’s defined as a blueprint service

Edit Service Zend Server PHP Application Server 5.6.0

Details
Properties
Actions

Name:
Service Version:
Description:
Tags:
Supported OSes:
Supported Components:
Pre-installed in a Template:

Zend Server PHP Application Server
5.6.0
Zend Server provides enterprises with the tools needed to run business-critical applications in PHP. It allows IT organizations to take advantage of PHP's agility and rapid development cycles with integrated application deployment, performance optimization, monitoring, and advanced debugging. Also included with Zend Server is complete support for open-source PHP itself from
Application Servers
Web Servers
Monitoring
CentOS64 5.6.0
SCRIPT
Other
☐

OK
Cancel

Properties:

Details			Properties	Actions			
Name	Description	Type	Catalog Value	Blueprint Value	Required	Secured	Override Deploy
DOWNLOADRPMURL	Zend Server yu...	String	http://downloads.zend.com/zendserver/5.6.0/ZendServer-5.6.0-RepositoryInstaller-linux.tar.gz		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
global_conf	URL to downloa...	Content	https://\$(darwin.server.ip):8443/darwin/conf/darwin_global.conf		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zendnode_ui_pass	Zend Server No...	String		114a6fc44	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zend_zscm_host	Address of the ...	String		ZSCM:ip	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zendnode_is_node	Set to 0 if used ...	String		1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zend_api_key_name		String		ZSCM:Zend_Server_PHP_Cluster_Manage r:zend_api_key_name	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zend_api_key		String		ZSCM:Zend_Server_PHP_Cluster_Manage r:zend_api_key	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
zend_self_addr		String		self:ip	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zend_self_name		String		self:ip	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zend_license_key	Zend Server No...	String			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
zend_order_number	Zend Server Lic...	String			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please refer to file **zendserver56-properties.txt** for additional explanation and property details.

Actions:

Details		Properties	Actions	
Lifecycle Stage	Script Type	Script		
INSTALL	Bash Script	#!/bin/bash		✗
CONFIGURE	Bash Script	#!/bin/bash		✗
START	Bash Script			✗

Install Script:

Please refer to file **zendserver56-install.sh** to copy the script as the INSTALL Bash Script.

Please refer to file **zendserver56-configure.sh** to copy the script as the CONFIGURE Bash Script.

2.5 Install Apache Load Balancer.(Load Balancer)

The “Install Apache Load Balancer” task installs Apache Service which provides the load balancing functionality to the clustered Zend Server solution. It’s defined as a blueprint script.

2.6