

SolusVM

Table of Contents

- 1 Supported Features
- 2 Management Features
- 3 API Versions
- 4 Installing SolusVM
- 5 Configuring SolusVM
- 6 Configurable Options Overview
- 7 Creating Packages
- 8 Welcome Email
- 9 Client Management
- 10 Common Issues

Supported Features

Create	Cancel	Suspend	Unsuspend	Management	Config Options
YES	YES	YES	YES	YES	YES

Management Features

This module supports the following management features within the client area:

- View Server Status
- Restart Server
- Shutdown Server
- Boot Server
- Reinstall to a New Template (*This deletes all existing data!*)
- Change Hostname
- Change Password
- View Stats (e.g. Bandwidth, Disk Space)
- Server Console


API Versions

The following table lists version compatibility between the module and the SolusVM API.

Module Version	SolusVM API Version
3.0.0 or greater	1.16.10 or greater
1.0.0 - 2.8.0	~1.13.02 or greater

Installing SolusVM

1. Visit [Settings] > [Company] > [Modules] > Available.
2. Click the "Install" button within the SolusVM module listing.

 **Using KVM?**

If you are using KVM and want to make a VNC console available to your users, you must copy the `/usr/local/solusvm/www/java/vnc` directory from your SolusVM master to `~/vendors/vnc` of your Blesta installation.

Configuring SolusVM

In your SolusVM account, you will need to setup an API User, under [Configuration] > [API Access], to allow API requests to your server. Make note of the ID and Key fields set here, as you will enter them in Blesta. And set the IP Address field to the IP address of the server hosting your Blesta installation.

Dashboard

Virtual Servers

Clients

Resellers

IP Blocks

Nodes

Plans

Media

Configuration

Tools

Log

Search

Quick Jump

-- Clients --

-- Resellers --

-- Virtual Servers --

-- Nodes --

-- Virtual Server Loads --

Shortcuts

Dashboard

Dashboard > Configuration > API Access > Edit API User

Edit

ID

16gQdtta2caWaAndi7yKdcoYJya4V1a71Pf1qx2

Key

17Apev0CVJH6YvEm18AmpL88R1wbA4win17P

IP Address

IP Checking

☒Tick to enable

Auto Select Host

☐Tick to enable. This will allow the system to auto select a node to build virtual servers

Disable Terminate Function

☐Tick to disable. This will prevent virtual servers from being terminated via the api.

Status

Active

Update API User

To configure SolusVM in Blesta, visit [Settings] > [Company] > [Modules] > Installed, and click the "Manage" button for the SolusVM module.

Manage SolusVM

ADD SERVER GROUP

ADD SERVER

SolusVM Master Servers

Server Label	Hostname	Options
Test SolusVM Server	solusvm-dev.domain.com	Edit Delete

SolusVM Master Server Groups

Group Name	Server Count	Options
Test SolusVM Group	1	Edit Delete

You may then add or update a server by setting the API credentials of an API User so that Blesta may communicate with the SolusVM server.

Edit SolusVM Server

Basic Settings

Server Label

Test SolusVM Server

User ID

16gQdttaZcaWaAndi7yKdkoYjya4V1a71Pf1qx2

Key

17Apsv0CVJH6YvEm18AmpL88R1wbA4wln17P

Hostname

solusvm-dev.domain.com

SSL Port Number

5656


UPDATE SERVER

Module Options

Option	Description
Server Label	This is the friendly-name of the server used as reference throughout Blesta. Set it to anything you prefer.
User ID	The API User ID of the API user you have set in SolusVM.
Key	The API Key of the API user you have set in SolusVM.
Hostname	The hostname of the SolusVM server, without the protocol.
SSL Port Number	The port on which Blesta may connect to the SolusVM API at the given Hostname.

Configurable Options Overview




This module supports configurable options which may alter the provisioning of SolusVM servers. Configurable Options override any matching Package settings.



Not Required

Configurable Options are not required, and this list in no way limits the Configurable Options that can be created. However, only the following Configurable Options can alter the way SolusVM servers are provisioned.

Option Name	Possible Values	Recommended Field Type	Description
-------------	-----------------	------------------------	-------------

extra_ips	integer >= 0	Quantity, Dropdown	<p>Determines how many extra IPs will be assigned to the server.</p> <div>  It is recommended to set the config option <i>Step</i> to 1 when using the Quantity type. <p>The module allows for the removal of IP addresses one at a time. Using a Step value greater than 1 for a Quantity config option will disallow the removal of IP addresses through the module. This is because the decrement of a single IP address would no longer coincide with a valid <i>Step</i> as defined for the config option.</p> </div>
extra_disk	integer >= 0	Dropdown	<p>Sets the amount of extra disk space available for the server in GB (Gigabytes). This amount is added to the disk space currently set for the server's Plan.</p> <p>e.g. "20" to indicate an additional 20 GB of disk space</p>
extra_bandwidth	integer >= 0	Dropdown	<p>Sets the amount of extra bandwidth for the server in GB (Gigabytes). This amount is added to the bandwidth currently set for the server's Plan.</p> <p>e.g. "5" to indicate an additional 5 GB of bandwidth</p>
extra_cpus	integer >= 0	Quantity, Dropdown	<p>Sets the number of extra CPU cores available to the server. This number is added to the CPUs currently set for the server's Plan.</p> <p>e.g. "2" to indicate two more additional CPUs</p>
nodegroup	integer >= 1	Dropdown	<p>Sets the node group from which SolusVM will determine a node to assign the server to. This overrides the Package settings for node or node group.</p>
template	???	Dropdown	<p>Sets the name/filename of the template to install on the server. This will override the Package setting for Template. e.g. "centos-5.8-x86_64-solus-virtualmin"</p> <div>  After a service has been created, updating the template will not affect the service. The service's template may only be changed from the Reinstall action. <p>Any pricing differences for the config option will still be incurred.</p> </div>
extra_memory	integer >= 0	Dropdown	<p>Sets the amount of extra 'guaranteed' memory in MB (Megabytes). This amount is added to the memory currently set for the server's Plan.</p> <p>e.g. "512" to indicate an additional 512 MB of memory</p>
extra_swap	integer >= 0	Dropdown	<p>Sets the amount of extra swap/burst memory in MB (Megabytes). The amount is added to the swap/burst memory currently set for the server's Plan.</p> <p>e.g. "512" to indicate an additional 512 MB of swap</p> <div>  Setting <i>extra_swap</i> requires that the <i>extra_memory</i> option be set as well. <p>If the server's plan does not provide any swap, and no extra swap has been set for this option, a value of 512 MB will be used by default.</p> <p>OpenVZ:</p> <ul style="list-style-type: none"> Only OpenVZ supports changing swap space after the server has been created. Changing swap for other virtualization types will have no effect. OpenVZ servers will always have their swap/burst set to the same value as memory. If any <i>extra_swap</i> is specified, it will be added onto this total. </div>

Creating Packages



Node Group Bug in SolusVM

There is a bug in SolusVM with the Default node group. If you select a node group for provisioning when creating a package, don't use the "Default" node group. First, create a new node group and assign your nodes to it in SolusVM. Then, select the new node group within the package.

Welcome Email

When creating or editing a package that uses this module, the following tags will be available:

Tags	Description	Notes
------	-------------	-------

{module. host}	The host name of the server that the service was provisioned on	e.g. "domain.com"
{module. port}	The port number to connect on	Default is "5656"
{service. solusvm_vs erver_id}	The service field for the virtual server ID	e.g. "1"
{service. solusvm_co nsole_user}	The service field for the console username, if one exists	
{service. solusvm_co nsole_pass word}	The service field for the console password, if one exists	Console passwords expire after a certain time period, and need to be regenerated, so this value may not always be accurate
{service. solusvm_ho stname}	The service field for the service's host name	e.g. "my.domain.com"
{service. solusvm_ma in_ip_adde ss}	The service field for the service's main IP address	e.g. "127.0.0.1"
{service. solusvm_int ernal_ip}	The service field for the service's internal IP address	e.g. "10.0.0.1"
{service. solusvm_ext ra_ip_adde sses}	The service field for the extra IP addresses	This is a comma-separated list of extra IP addresses
{service. solusvm_no de}	The service field for the node ID that the service is attached to	e.g. "1"
{service. solusvm_us ername}	The service field for the account username	
{service. solusvm_pa ssword}	The service field for the account password	The password will only be shown for the first service of this type created for a client--when the customer account is first created in SolusVM. This field will be blank when additional services are created for this client because the existing account will be re-used, and the current password will be unknown.
{service. solusvm_pla n}	The service field for the name of the plan	
{service. solusvm_roo t_password}	The service field for the root password	
{service. solusvm_te mplate}	The service field for the name of the template	
{service. solusvm_typ e}	The service field for the type of SolusVM server the service is using	i.e. one of: "openvz", "xen", "xen hvm", "kvm"
{service. solusvm_virt _id}	The service field for the SolusVM virtual ID	e.g. "vm101 101"
{service. solusvm_vn c_ip}	The service field for the VNC IP address, if one exists	e.g. "127.0.0.1"; for HVM/KVM servers
{service. solusvm_vn c_port}	The service for the VNC port number, if one exists	e.g. "5901"

{service. solusvm_vn c_password}	The service for the VNC password	
--	-------------------------------------	--

Client Management

This module contains some client management features. Clients access this area by clicking the "Manage" button from within the client area for a service that uses this module.

Information

Information
Server Actions
Stats
Console
Return to Dashboard

Manage SolusVM Xen 8 Nodes - testuser.mynewusername.com

Package SolusVM Xen 8 Nodes	Status Active
Label testuser.mynewusername.com	Renew Date Jul 19, 2014
Creation Date Jul 19, 2013	Next Invoice Jul 18, 2014
Billing Cycle 6 Months	Recurring Amount 1x \$300.00 USD

Server Actions

- Reboot
- Shutdown
- Boot
- Reinstall
- Change Hostname
- Change Password

Information
Server Actions
Stats
Console
Return to Dashboard

Manage SolusVM Xen 8 Nodes - testuser.mynewusername.com

Server Status
Online

Actions

Reboot
Shutdown
Boot
Reinstall
Change Hostname
Change Password

Server Actions: Change Hostname

Useful for changing the hostname of the server.

Information
Server Actions
Stats
Console
Return to Dashboard

Manage SolusVM Xen 8 Nodes - testuser.mynewusername.com

Server Status
Online

Actions

Reboot
Shutdown
Boot
Reinstall
Change Hostname
Change Password

Change Hostname

A change to the hostname will only take effect after the server has been rebooted.

Hostname
testuser.mynewusername.com

Change Hostname

Server Actions: Change Password

Useful for changing the root or Administrator password.

Information

Server Actions

Stats

Console

Return to Dashboard

Manage SolusVM Xen 8 Nodes - testuser.mynewusername.com

Server Status

Online

Actions

RebootShutdownBootReinstallChange HostnameChange Password

Change Password

New Root Password

Confirm Password

Change Password

Server Actions: Reinstall

Useful for re-installing the operating system.

Information

Server Actions

Stats

Console

Return to Dashboard

Manage SolusVM Xen 8 Nodes - testuser.mynewusername.com

Server Status

Online

Actions

RebootShutdownBootReinstallChange HostnameChange Password

Reinstall

Template

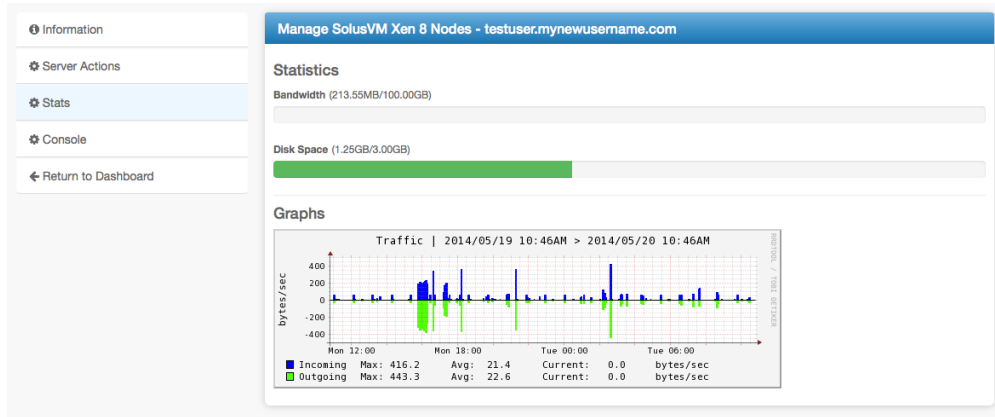
centos-5.8-x86_64-solus-virtualmin

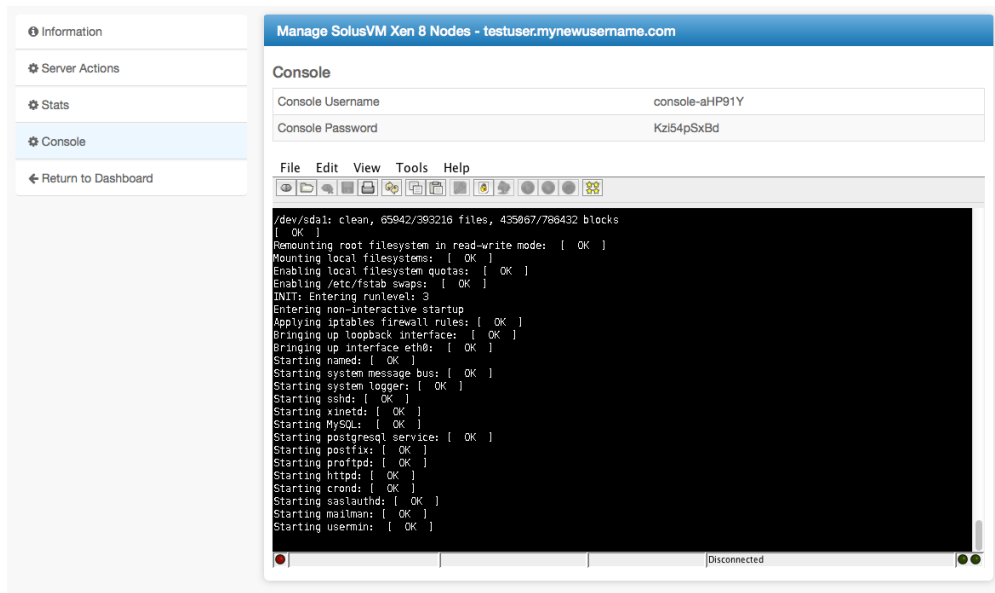
☐ I understand that by reinstalling, all data on the server will be permanently deleted, and the selected template will be installed.

Reinstall

Stats

Shows statistics like monthly bandwidth, disk space usage, and a traffic graph.





Common Issues

- The noVNC console doesn't work (Blesta 5.0+)
- Make sure an SSL certificate is installed on the master node, noVNC is enabled in the settings page in SolusVM, and that /usr/local/solusvm/data/config.ini has been created with the necessary parameters set. See <https://support.solus.io/hc/en-us/articles/360015040832-noVNC-does-not-work-and-HTML-5-console-fails-to-connect-Server-disconnected-code-1006->
 - This command can be run via SSH to generate the config.ini with the proper parameters:

```
echo [NOVNC] >> /usr/local/solusvm/data/config.ini; echo "use_remote_hostname = true" >> /usr/local/solusvm/data/config.ini; echo "socket_dest_public = false" >> /usr/local/solusvm/data/config.ini
```