Can multisites auto create a new database via SSH?

Posted by TonyGee - 2011/11/23 03:04

Hi Edwin,

I'd like Multisites to automatically create a new database via the template instead of me creating the new database first in my cpanel.

I've been speaking to my host and they have said this is possible via SSH.

Is this supported by multisites?

Thanks and regards.

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Re: Can multisites auto create a new database via SSH?

Posted by edwin2win - 2011/11/23 13:58

Create a new DB dynamically does not require SSH but require a MySQL user with the privilege to create the DB.

Yes JMS can create the DB dynamically when you have such MySQL user with the appropriate privileges.

JMS can also create MySQL user dynamically.

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Re: Can multisites auto create a new database via SSH?

Posted by TonyGee - 2011/11/24 04:30

Hi Edwin,

Is this information in a tutorial or the user manual? If so what page?

Also, my host is currently finding out if this is possible with their MySQL security settings. If it is not possible then can we find a way via SSH? (they have already confirmed that SSH is possible).

Thanks and regards.

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Re: Can multisites auto create a new database via SSH?

Posted by edwin2win - 2011/11/24 17:50

The Page 14 - "multisites.cfg.php" where you can also setup the MySQL root login and password.

Setup the parameter
MULTISITES_DB_GRANT_HOST
MULTISITES_DB_ROOT_USER
MULTISITES_DB_ROOT_PSW

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Re: Can multisites auto create a new database via SSH?
Posted by TonyGee - 2011/11/25 06:59

Thanks for that information Edwin, I would have never noticed (or recognised the importance) of that in the manual.

My host has confirmed that they cannot give me a super user database login and they have said the only way I can create databases on the fly outside of the control panel is via SSH.

If I was to purchase support hours to work out a solution for this via SSH what would be the estimated number of hours?

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Re: Can multisites auto create a new database via SSH?
Posted by edwin2win - 2011/11/25 23:13

I don't think that you could execute SSH script from a PHP application.
If your provider does not gave you the MySQL user privilege to do it, I don't see how you can have more MySQL user privilege from a SSH terminal as you also need to provide a MySQL user with enought privileges.

I don't know how this can be done with SSH from a PHP script.
If your hosting provider can give the description of how it is possible, perhaps I could estimate a workload. For the moment, with the current information, I think this is not possible.

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Re: Can multisites auto create a new database via SSH?
Posted by TonyGee - 2011/11/28 04:49

I was actually thinking it could be done via the new Joomla CLi functionality.

I'm not a developer or database guru but I went to a Joomla Day and saw a presentation about Joomla's new command prompt function to interface with multiple database systems etc.

Do you know much about this?

If this is going to be a long and expensive process perhaps I should just move hosting providers. You mention Godaddy in some of your presentations. Do you know if these JMS Multisites features are compatible with Godaddy?

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Re: Can multisites auto create a new database via SSH?

Posted by edwin2win - 2011/11/28 16:08

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I don't know what you make reference concerning the Joomal CLi functionality or joomla's new command prompt.

Concerning the compatibility with Godaddy, JMS works perfectly on linux delux plan or unlimited plan or similar.

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Re: Can multisites auto create a new database via SSH?

Posted by TonyGee - 2011/11/29 05:33

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Thanks for letting me know what Godaddy plans to select.

My host is going to try and organise me access to Super User for MySQL. They have asked me a couple questions which I'm confident to answer but thought I would just double check with you:

1) Will we be modifying the apache config to add virtualhosts? - I don't believe this is relevant for us... is this true?

2) Can the software create databases and database usernames using a prefix like 'slveg_' ? - I do think this is possible but please correct me if I'm wrong.

Thanks again for your advice on this.

UPDATE: My hosting provider has created a new User Account for me that can create/delete/set permissions for users and databases outside of the control panel.

The only restriction is that I need to create new databases and database users with a prefix 'slveg_' (e.g 'slveg_{databasename}')

In the instructions it says I need to leave the 'New Database Name' and 'New Database User' info blank for the multisites.cfg.php file to create the database and user dynamically.

Please let me know how I can setup the template or PHP file to include the required prefix?

Thanks and regards.

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Re: Can multisites auto create a new database via SSH?

Posted by edwin2win - 2011/11/30 11:48

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1) Yes this is not relevant for JMS.
The only thing that must be know by JMS is the document root directory and the domain name (ServerName and ServerAlias)

2) Yes.
You need MySQL root privileges to create DB dynamically.

Remark: the keyword {databasename} does not exits in JMS.

If the MySQL user name that you provide to create the website does not exists or does nto have the privileges to create the DB or create the user then the multisites.cfg.php configuration ROOT info are used.

So you have to setup the "multisites.cfg.php" with the root login and password information. You perhaps may also need to setup the MySQL host name.

The new DB name can be computed like = slveg_{site_prefix}
DB User name could be the same = slveg_{site_prefix}
DB Password could be a random value like = {rnd_psw}

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Re: Can multisites auto create a new database via SSH?

Posted by TonyGee - 2011/12/01 07:10

Hi Edwin,

I'm almost able to get this to work. I have successfully created new databases however I'm having issues creating the new database user.

This is what I've done:

In the multisites.cfg.php file:

define('MULTISITES_DB_GRANT_HOST', 'localhost');
define('MULTISITES_DB_ROOT_USER', 'super-user-name');
define('MULTISITES_DB_ROOT_PSW', 'super-user-password');

Then in the template config:

New DB server: localhost
New DB Name: slveg_{site_id}
New DB User: slveg_{site_id}
New DB Password: {rnd_psw}

Here is the error message I get:

Create User error : Query = , DB Message =

Can you recommend what has gone wrong here? I've asked my host to double check the super user premissions.

Thanks and regards.

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Re: Can multisites auto create a new database via SSH?

Posted by edwin2win - 2011/12/01 10:25

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If I translate correctly the MySQL error message, you are trying to access the "slveg_testdb5" with the user "slveg_master'@'localhost'" that does not has the permission

So you have to cross-check all the parameters.

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Re: Can multisites auto create a new database via SSH?

Posted by TonyGee - 2011/12/02 00:31

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Hi Edwin,

Thanks for helping to understand the error message.

"super-user-name" is the user "slveg_master" in the error message so this user does have permission to create new users and assign permissions etc.

When I check my control panel the database has been created but no user has been assigned to the database so no user has permission to access the database yet.

Shouldn't the JMS script create a new user and assign the user to the database OR assign the super user to the new database?

My host has asked if we can provide the exact command/sql we are using to create the user? They will then help troubleshoot on their side.

I'm also not sure what parameters I need to cross-check. Do you think the problem is the field "define('MULTISITES_DB_GRANT_HOST', 'localhost');" in the multisites.cfg.php file?

Thanks again for your help.

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Re: Can multisites auto create a new database via SSH?

Posted by edwin2win - 2011/12/02 17:03

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The host parameter is the one that define on which host the DB is created and the user is created. JMS try to detect the name or IP address of the MySQL that must be used. This parameter allow to define which is the host that must be used to create the DB and the users.

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Re: Can multisites auto create a new database via SSH?
Posted by TonyGee - 2011/12/07 04:48

Hi Edwin,

I almost have this working now.

I can create a new database and a new database user however the only issue remaining is that the new user is created with a permission to only access the database from a specific IP 199.##.###.

When I access the control panel and re-save the new user under the new database then my control panel saves the user again with the % wildcard under the 'connect to database from' field permission. Multisites then connects without any issue to the database.

How do I adjust the script so that the new user has the wildcard % for the permission "Connect to database from"?

Thanks for your help with this query.

Best regards.

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Re: Can multisites auto create a new database via SSH?
Posted by edwin2win - 2011/12/07 11:06

It is not possible to put a wildcard automatically.
If you want to do that, you have to modify JMS to implement your specific processing

This is something, that you could do with the development of a specific plugin that would be called before the creation of the slave site and that would pre-process the MySQL DB creation and the MySQL user creation.
Such plugin can be called when you have the "billable website" creation functionality enabled in the front-end.

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Re: Can multisites auto create a new database via SSH?
Posted by TonyGee - 2011/12/08 04:21

I think I will need some support hours for this so I will purchase some hours and we can then talk about

this in greater detail.

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