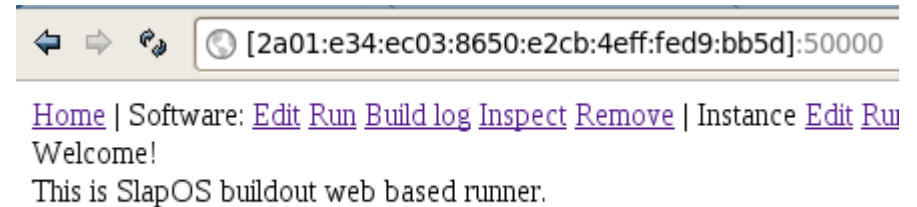


SlapOS request method

This guide will teach you:

- What is SlapOS master
- What is request
- Requesting computer partitions

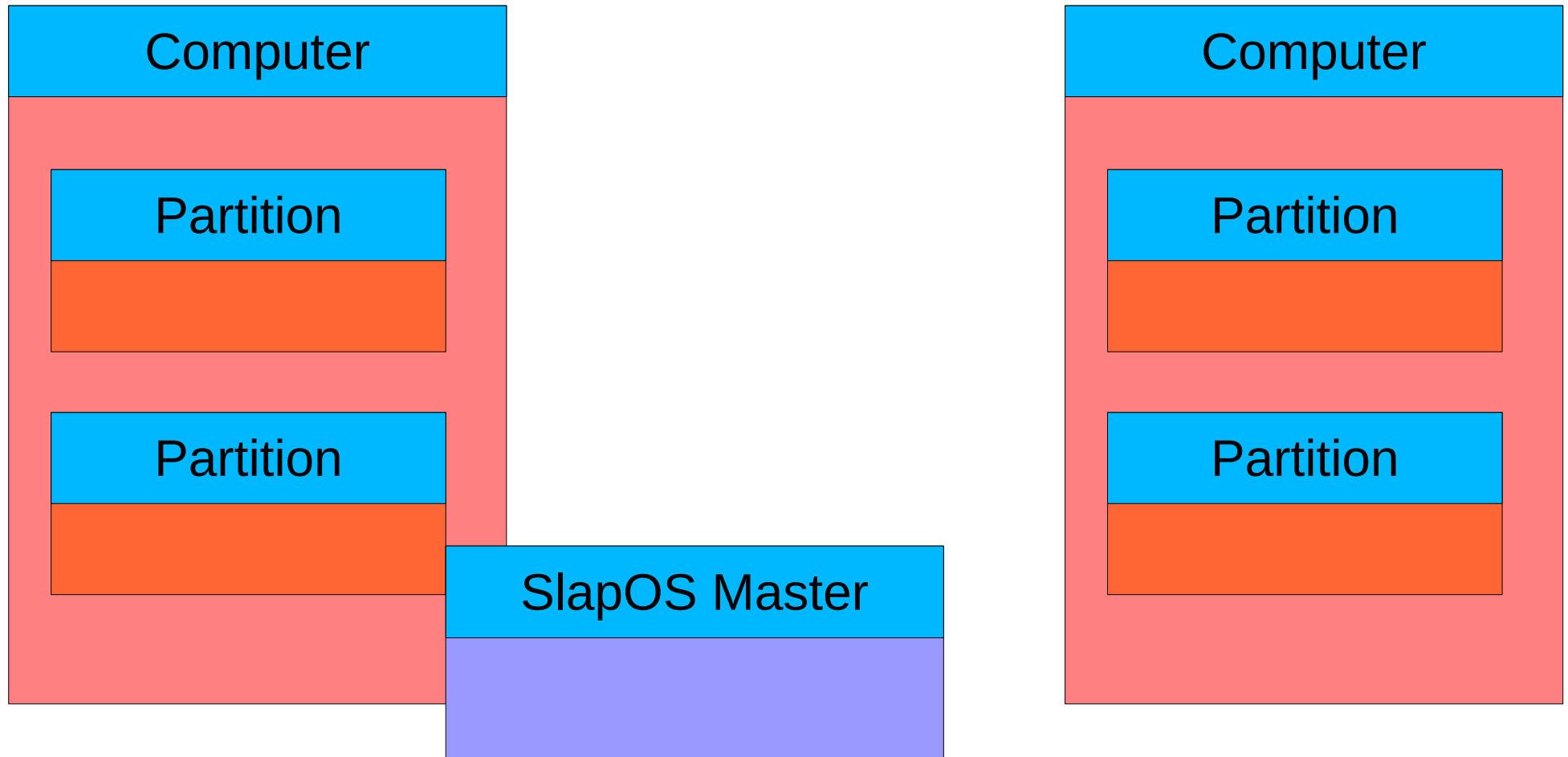


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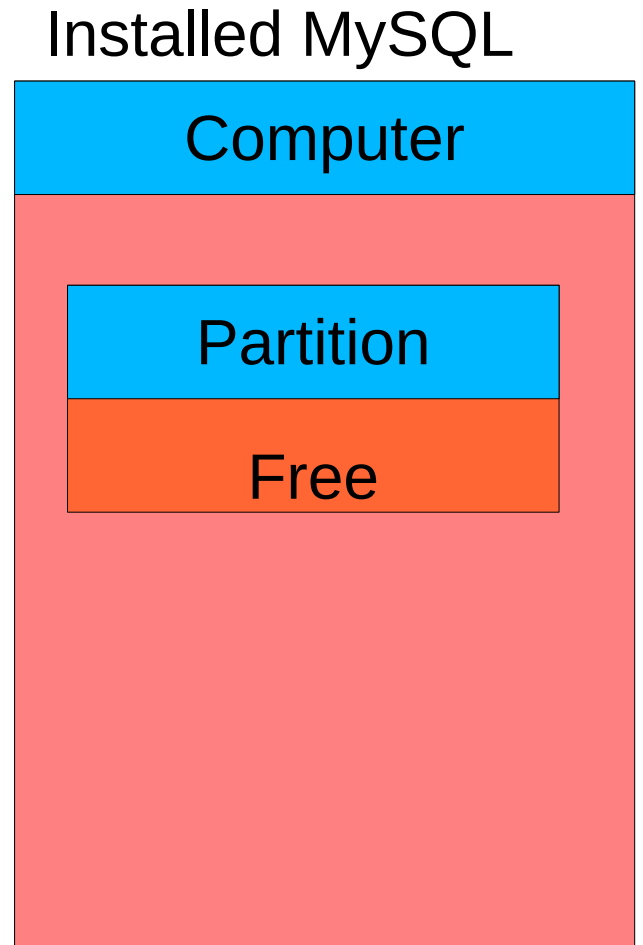
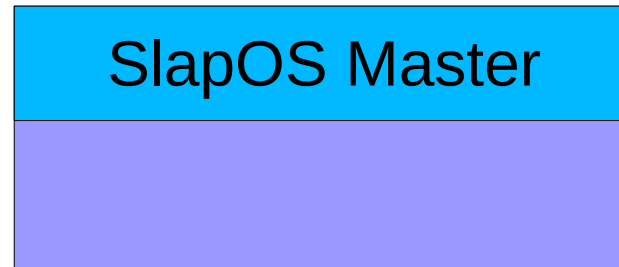
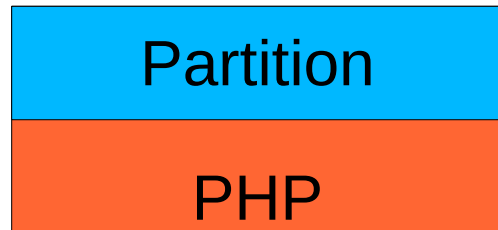
SlapOS master

- Special computer which knows what is going on
- Knows about other computer and partitions
- Informs other computers which software to install
- Informs other computers which partition to starts
- Full-fills requests

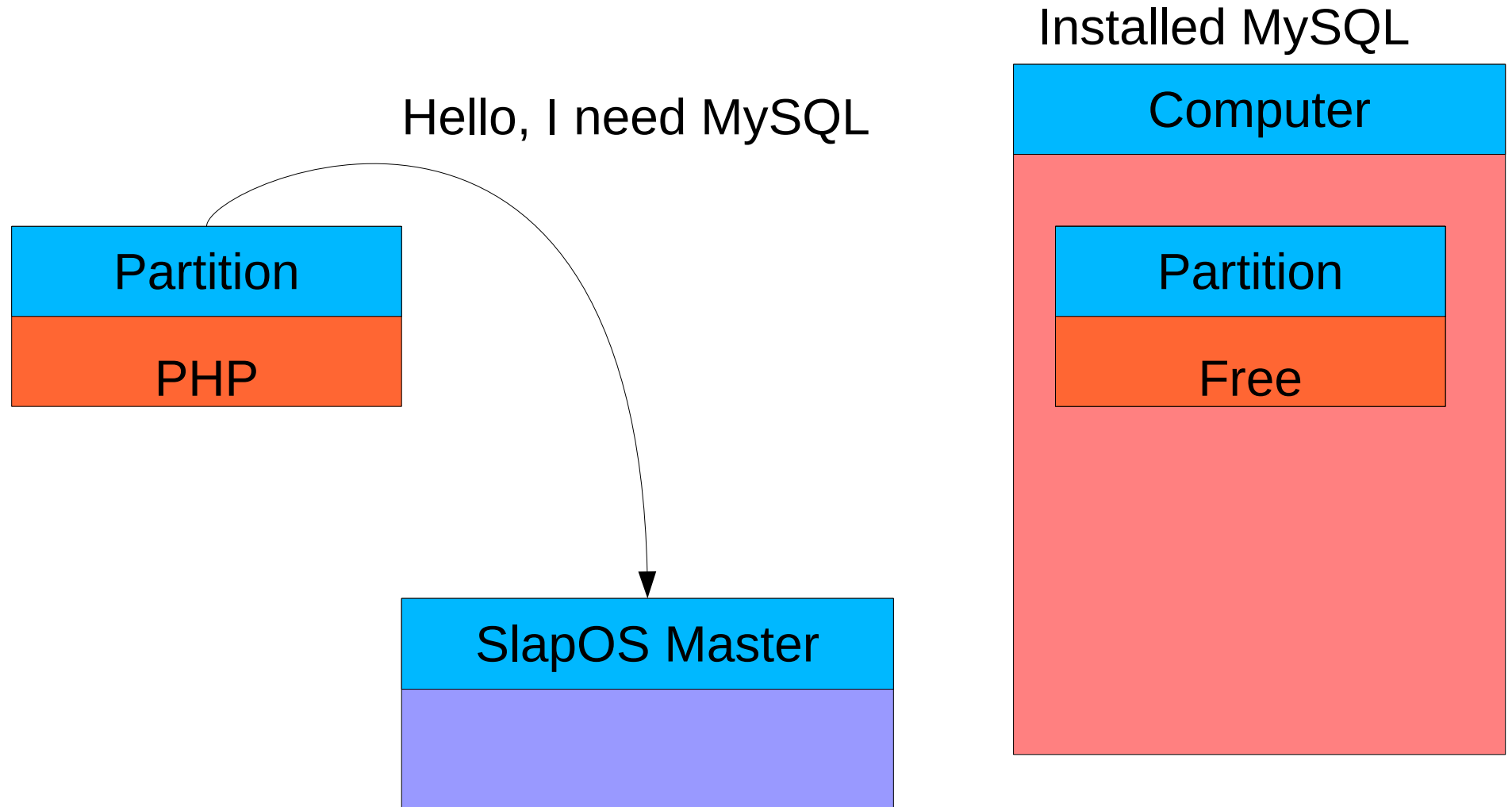
Computers with partitions



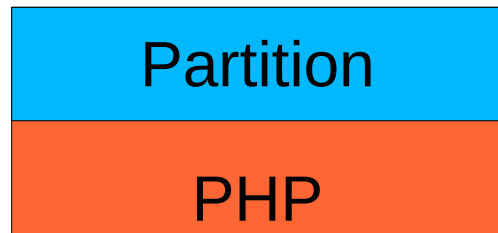
Partitions



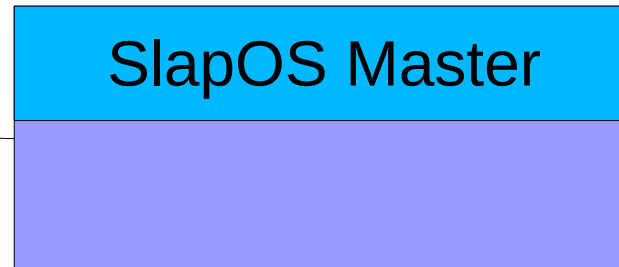
Application needs MySQL



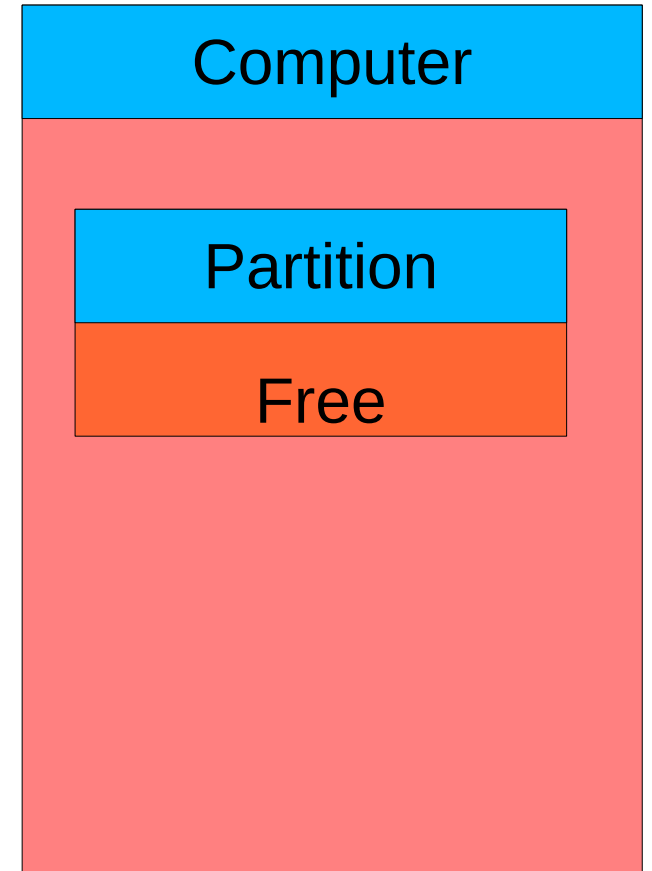
SlapOS – please wait



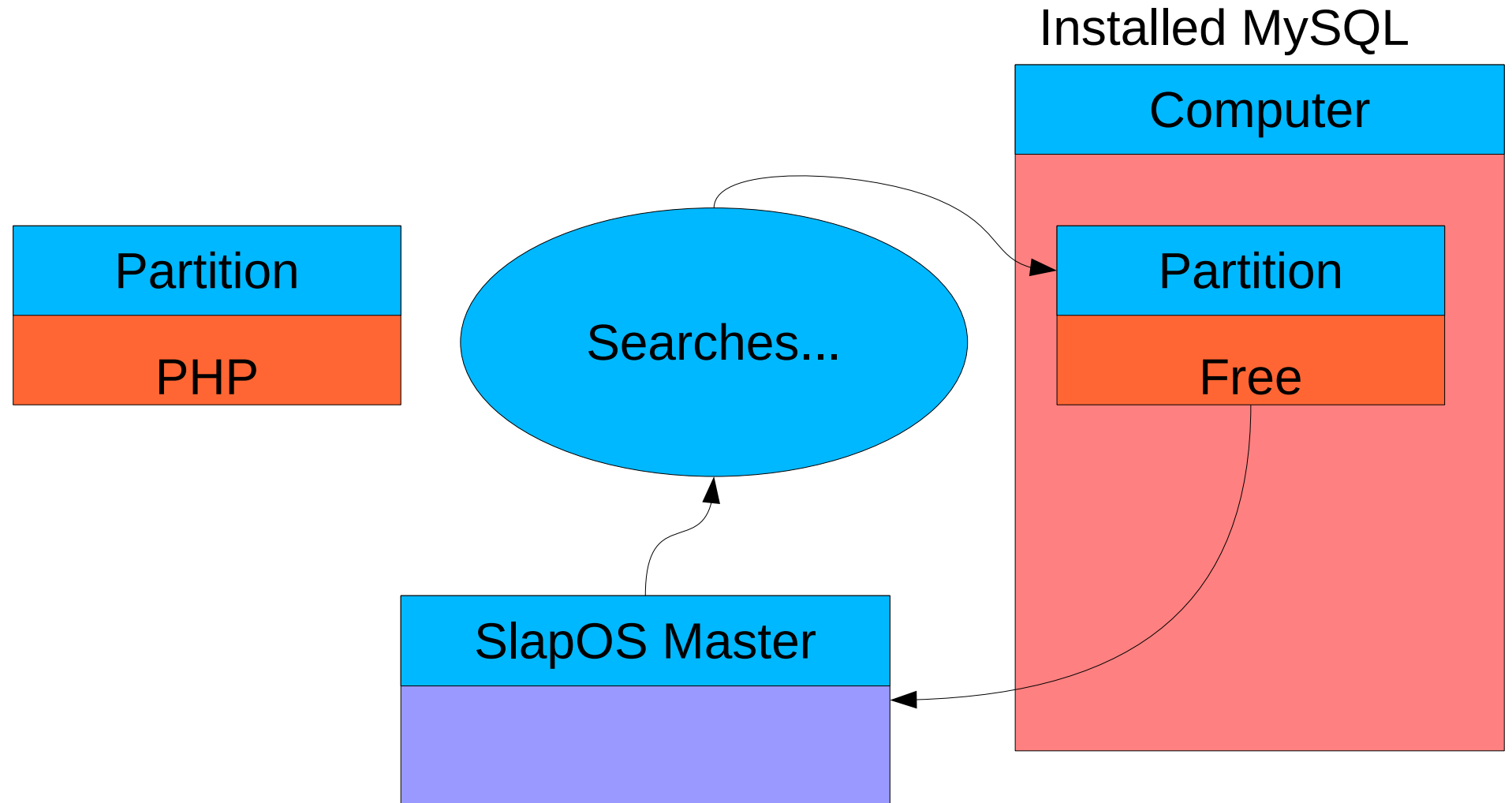
No problem I will try to find,
Please wait



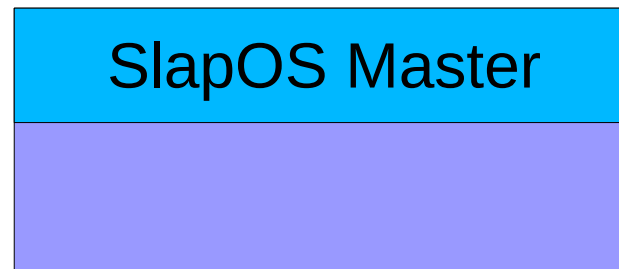
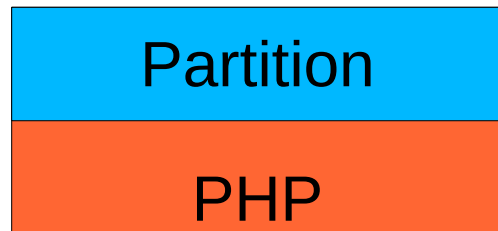
Installed MySQL



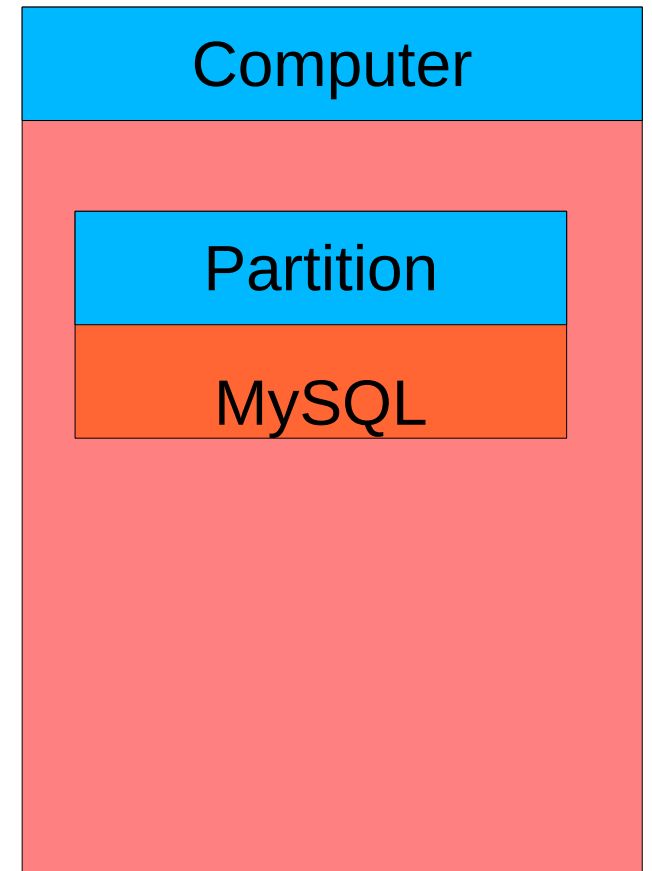
SlapOS master search



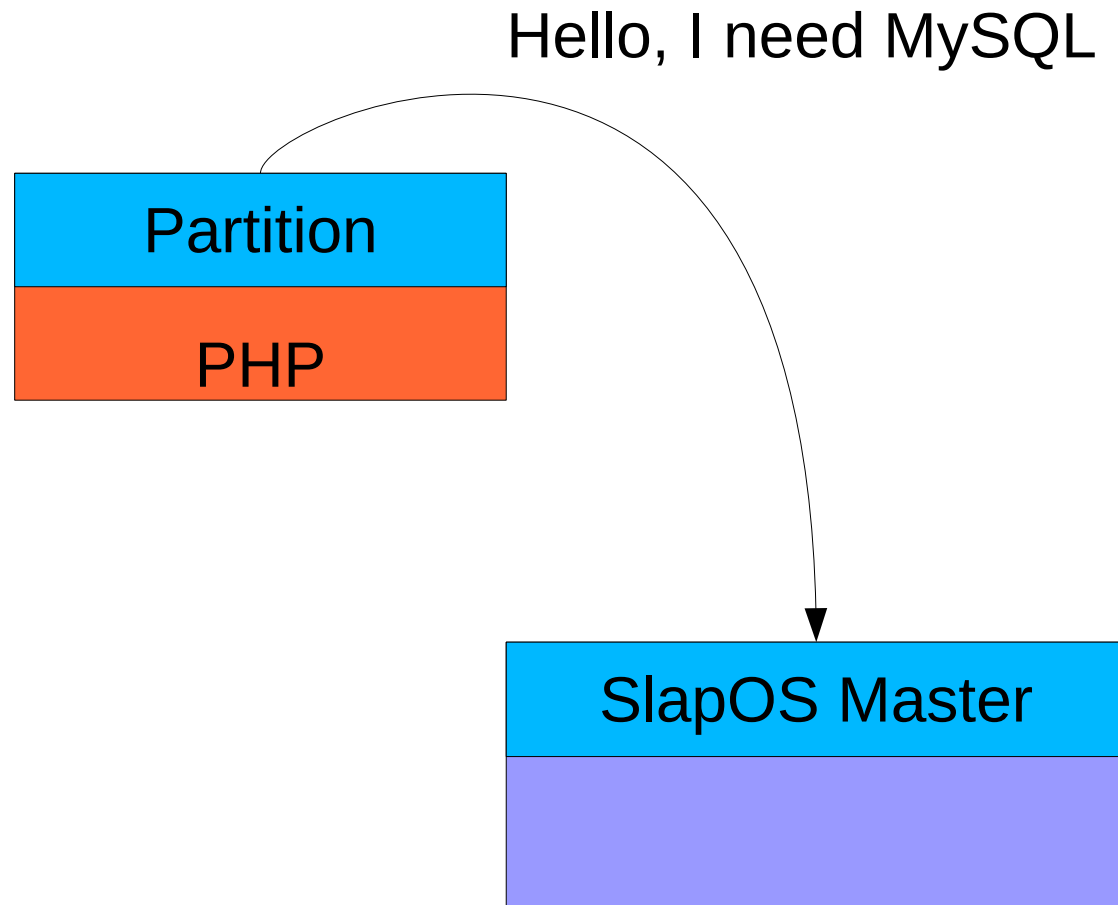
SlapOS master allocates



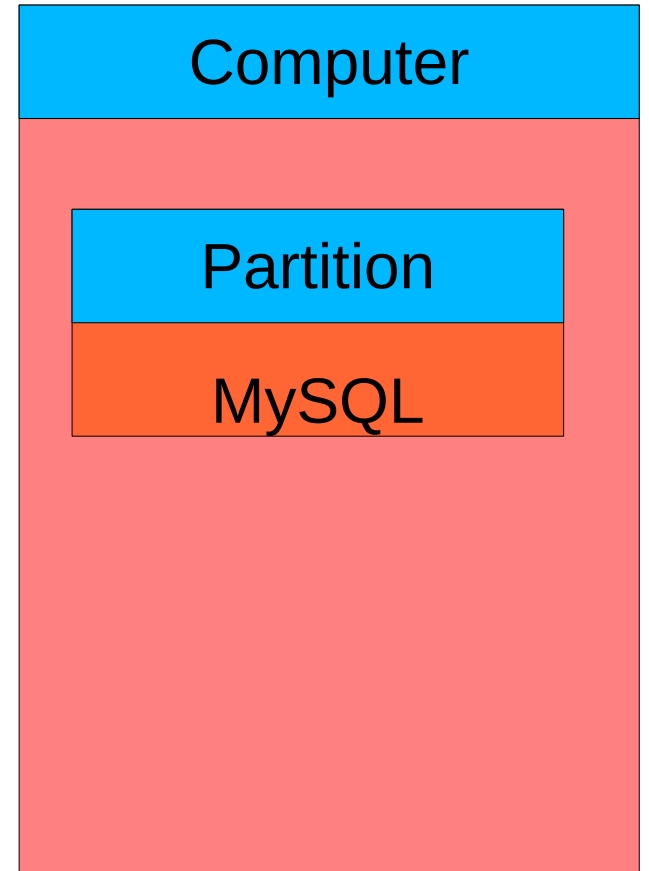
Installed MySQL



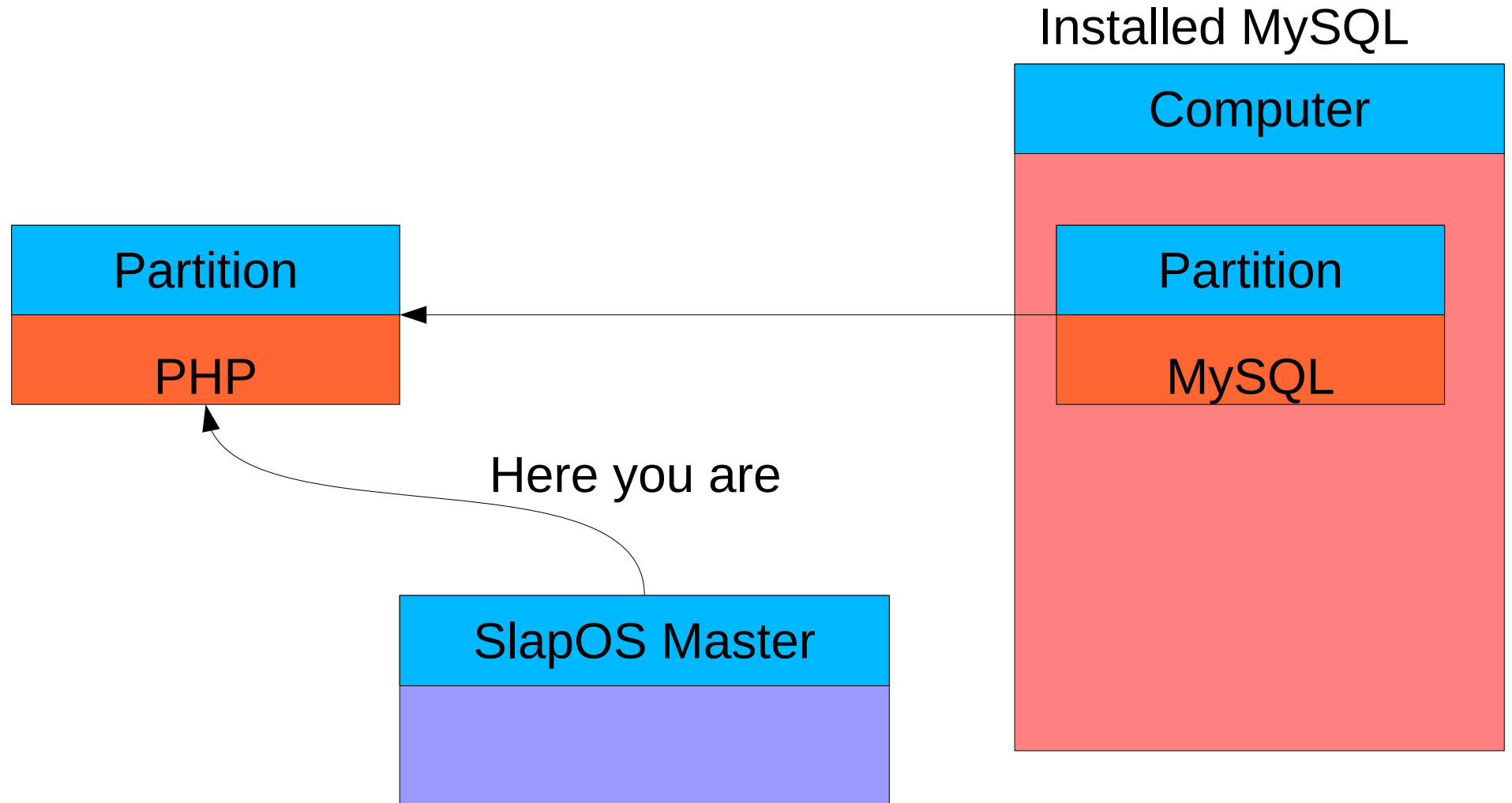
Partitions asks again



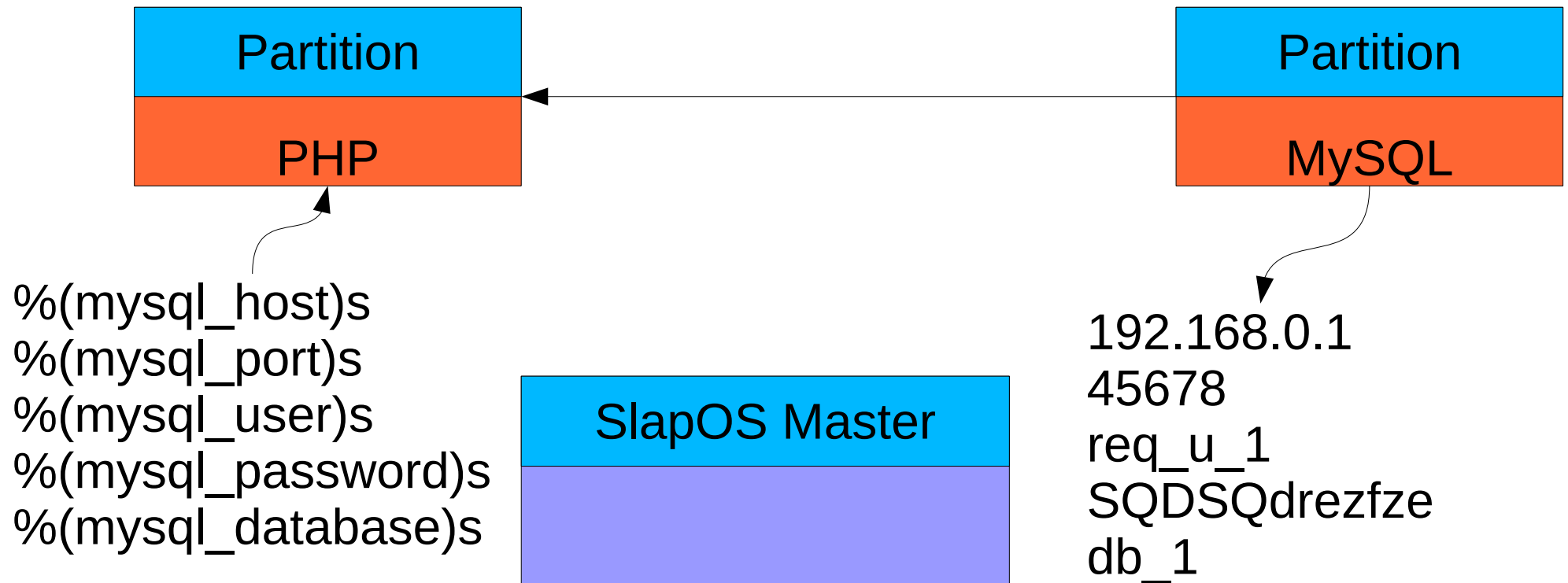
Installed MySQL



It is available!



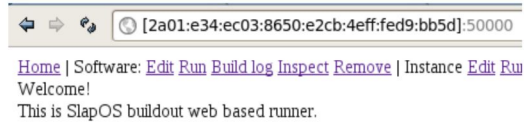
PHP and MySQL are connected



SlapOS request method

This guide will teach you:

- What is SlapOS master
- What is request
- Requesting computer partitions



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In phpMyAdmin example students were using the most basic part of SlapOS – how to install and deploy simple software.

But the most important part of SlapOS system is slap.request method.

This tutorial provides theoretical introduction to slap.request method.

SlapOS master

- Special computer which knows what is going on
- Knows about other computer and partitions
- Informs other computers which software to install
- Informs other computers which partition to starts
- Full-fills requests

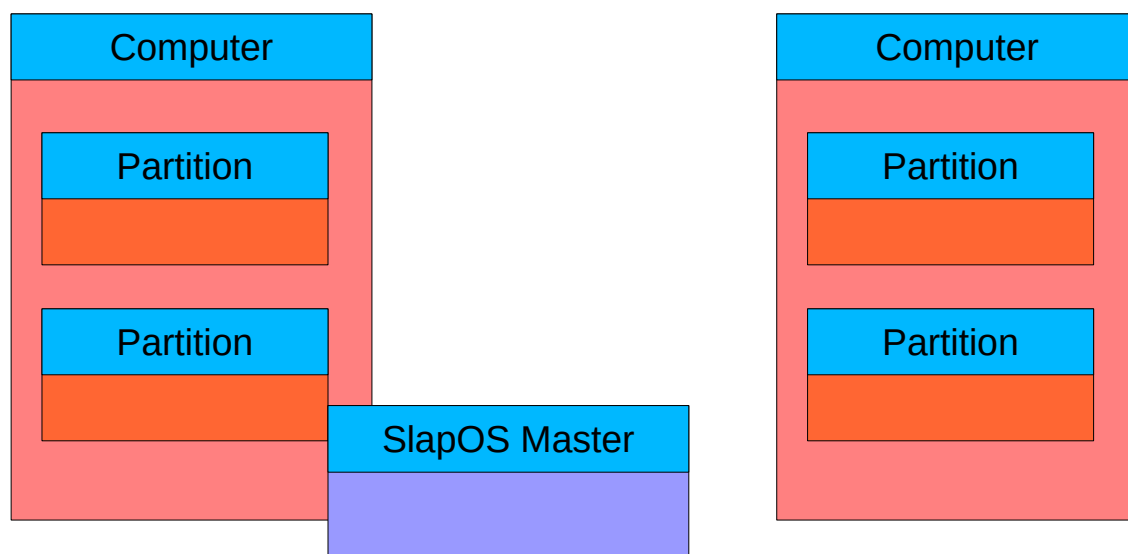
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`slap.request` method is connecting to SlapOS master in order to request instantiation.

SlapOS master is central point of SlapOS cluster. It gathers requests, selects its destination.

It also manage software installation and deployment across the cluster.

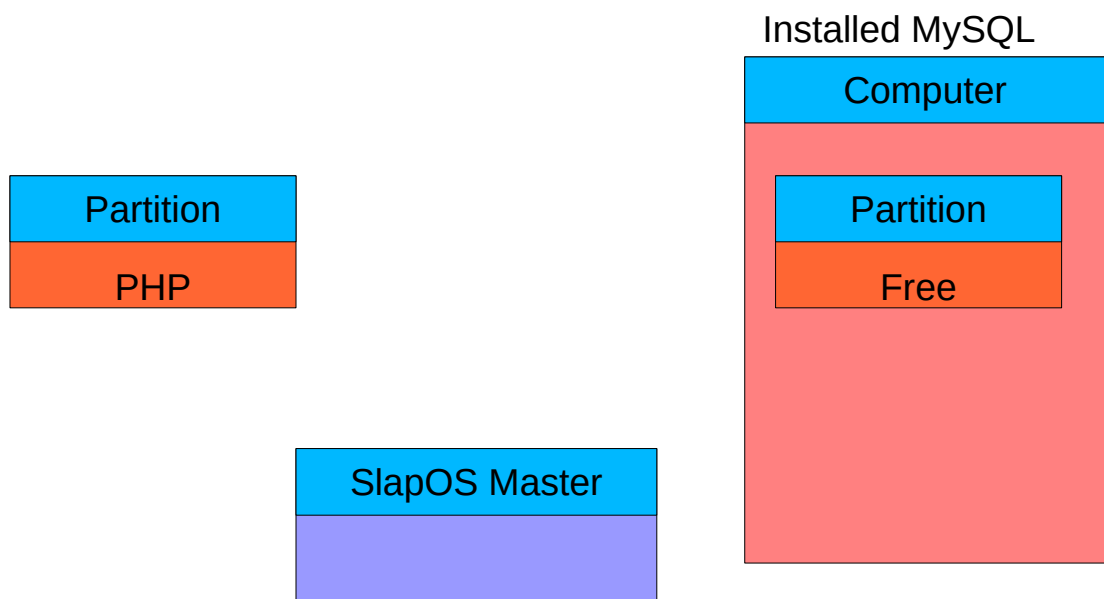
Computers with partitions



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Let's say that there are two computers with some partitions connected to same master.

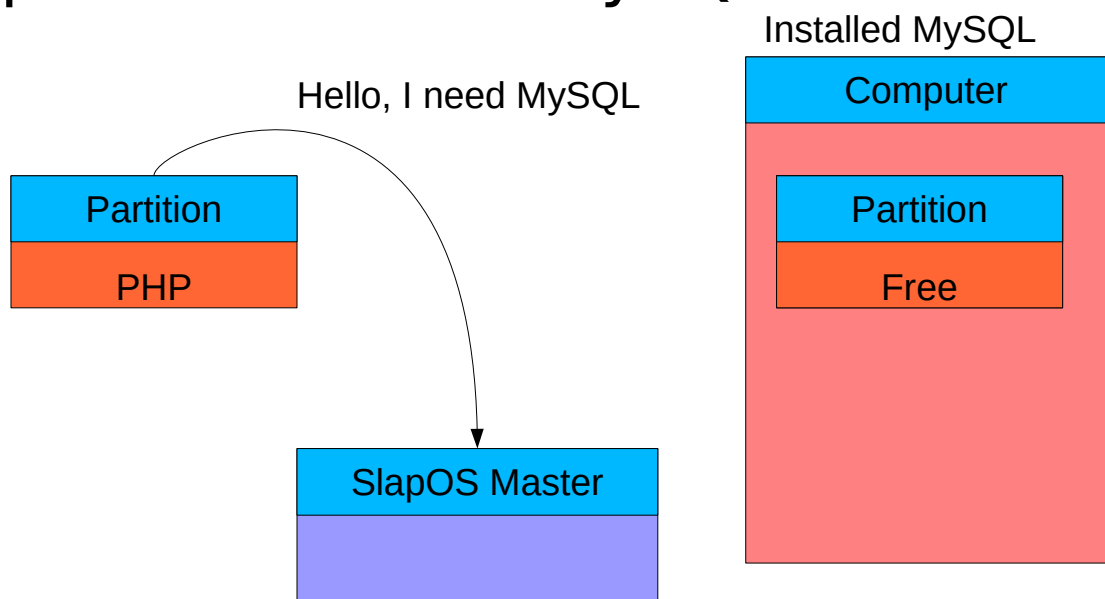
Partitions



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On one computer PHP application is being deployed.

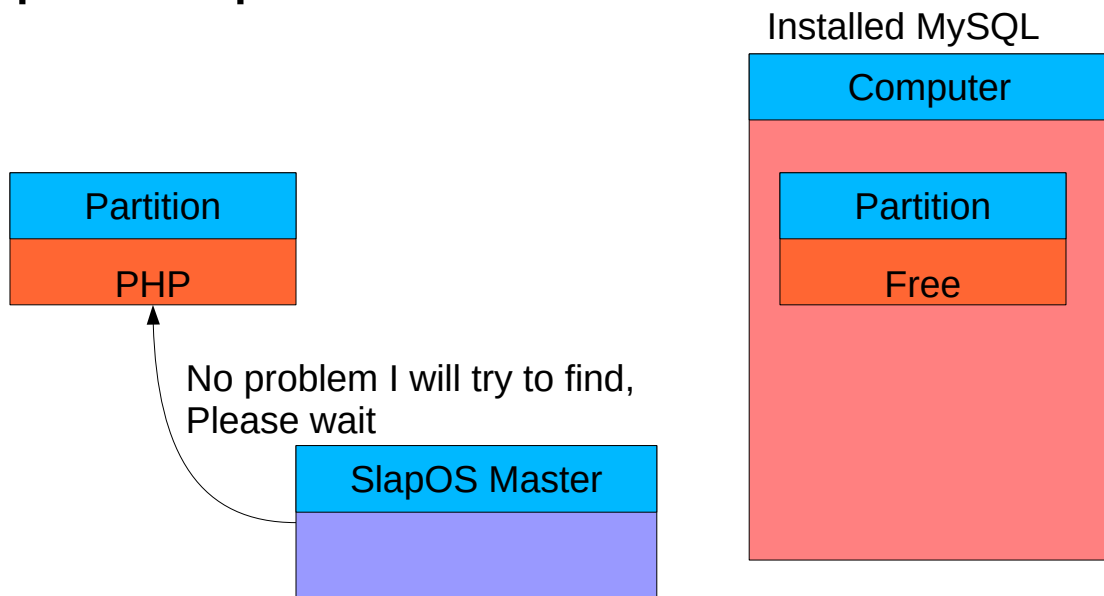
Application needs MySQL



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Recipe for this application is configured to request MySQL database. So partition connects to SlapOS master and asks for such software instance.

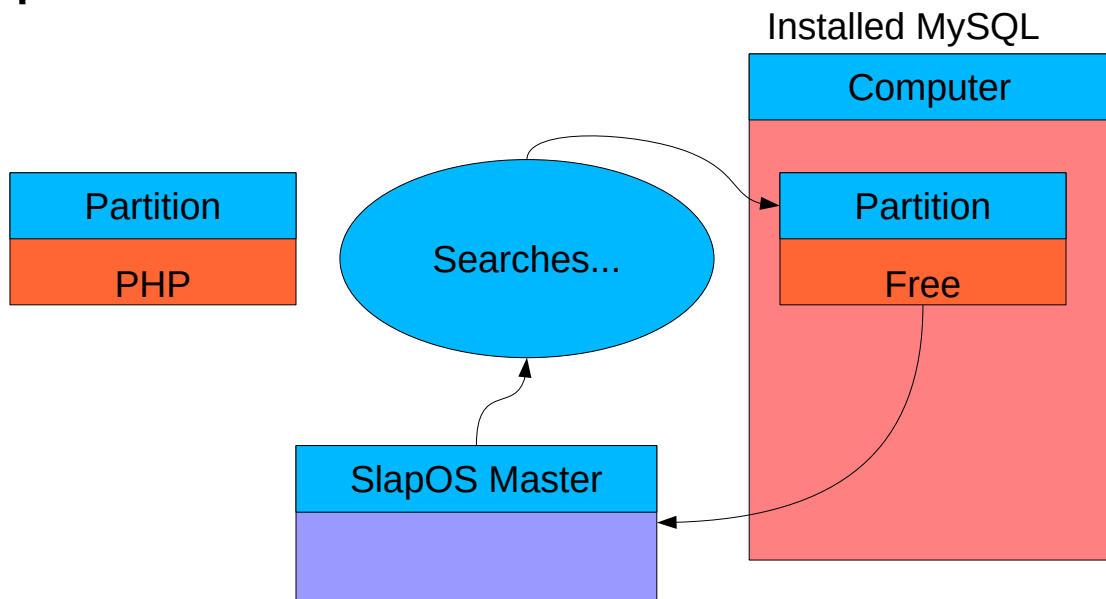
SlapOS – please wait



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As request is done asynchronously, the first call is responded with “Please wait, I am processing”.

SlapOS master search

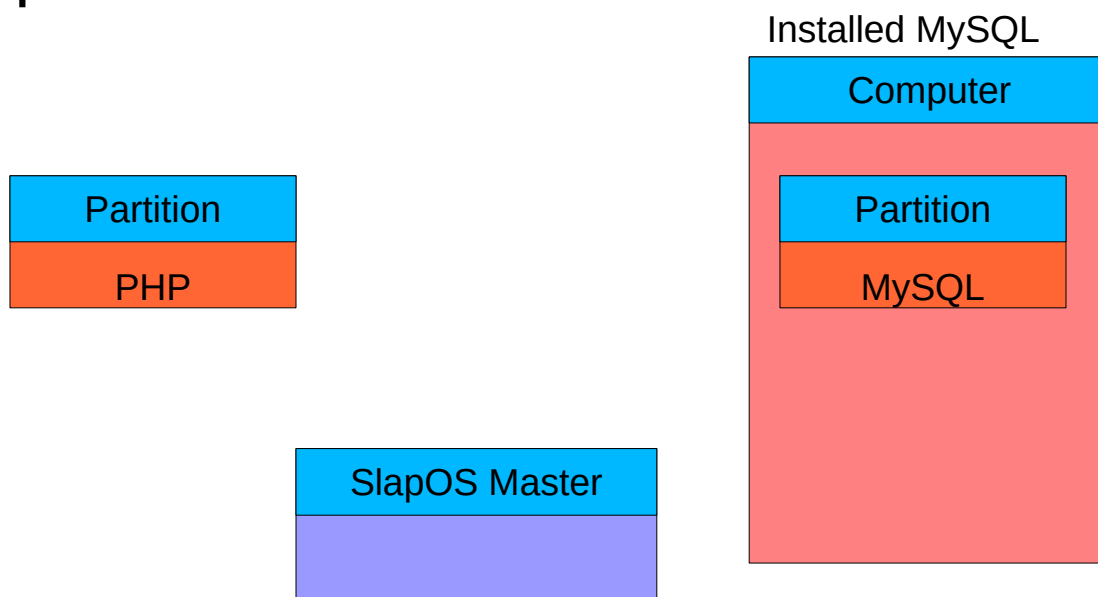


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Now SlapOS master is querying its own database about Computers and its Partitions.

It looks for free Computer Partition on Computer, which has proper software installed.

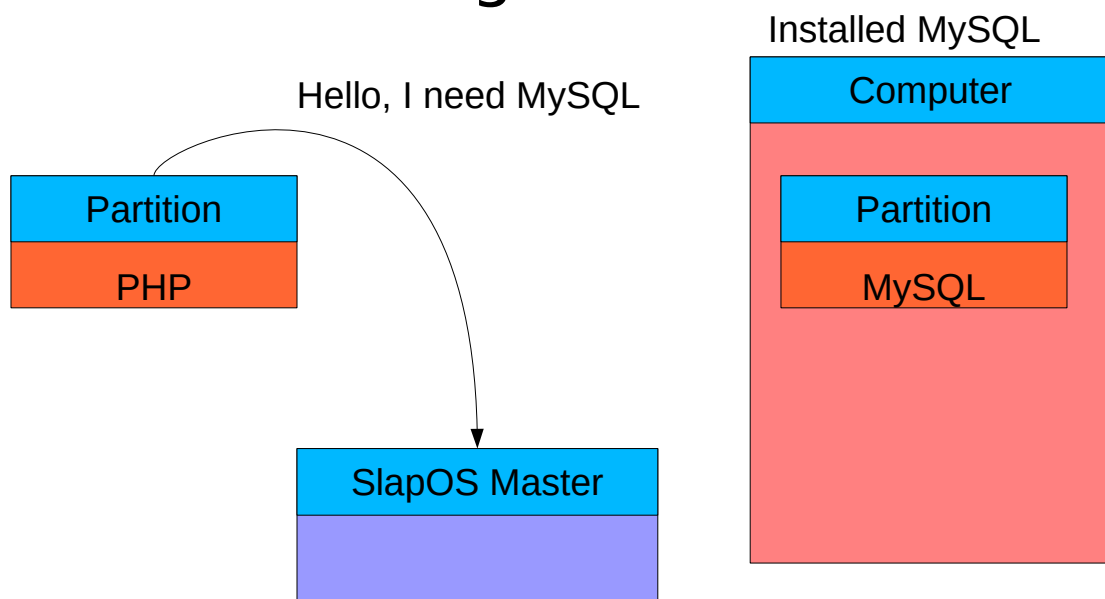
SlapOS master allocates



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It asks this computer to deploy new MySQL database, and fetches connection information.

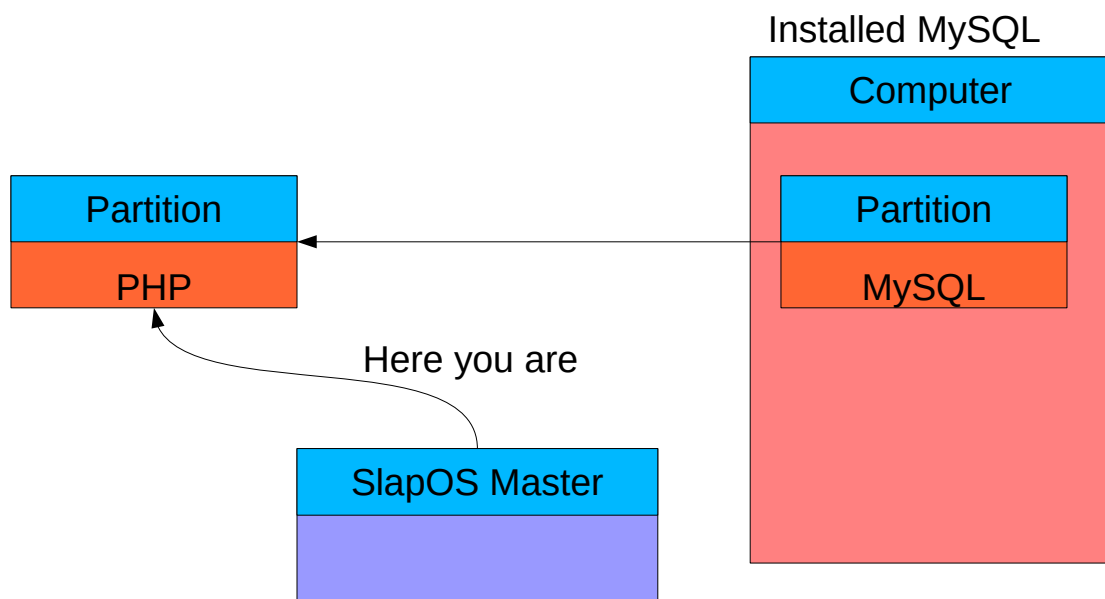
Partitions asks again



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The originating partition, as first request did not succeed, asks again for MySQL database.

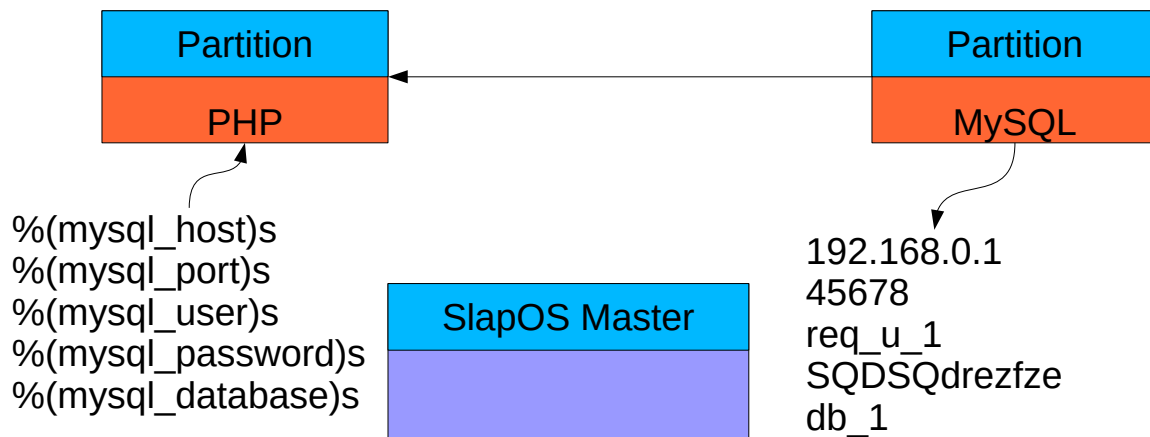
It is available!



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As database is instantiated correctly, SlapOS master provides it.

PHP and MySQL are connected



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And this is where template mechanisms are used too. Connection dictionary is send by SlapOS master to PHP partition.

Thanks to this recipe responsible for PHP instantiation is able to configure the application.