



Stratusphere™ Upgrade Guide

Created for Stratusphere version 5.0

Introduction

This guide has been authored by experts at Liquidware Labs in order to provide instruction on installation and setup to customers of its Stratusphere™ Server FIT with Host Designer Solution for the Red Hat® Enterprise Virtualization for Server platform.

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Liquidware Labs, Inc.

3600 Mansell Road

Suite 200

Alpharetta, Georgia 30022

U.S.A.

Phone: 678-397-0450

www.liquidwarelabs.com

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TABLE OF CONTENTS

INTRODUCTION	3
TOPICS COVERED	3
TARGET AUDIENCE	3
PREREQUISITES	3
UPGRADING THE STRATUSPHERE HUB/DATABASE	4
UPGRADE FROM A STANDALONE STRATUSPHERE 4.8.X TO 5.0 STANDALONE HUB.....	4
UPGRADE FROM A STANDALONE STRATUSPHERE 4.8.X HUB TO BOTH HUB AND DATABASE IN VERSION 5.0.....	6
UPGRADE FROM A STRATUSPHERE 4.8.X HUB WITH 4.8.X DATABASE TO A 5.0 HUB AND 5.0 DATABASE	10
UPGRADE CONNECTOR ID KEYS FROM 4.8.1 TO 5.0	14

INTRODUCTION

This document will walk you through upgrade of Stratusphere from version 4.8.x to version 5.0. As of version 5.0, the Stratusphere Appliances are based on 64bit Linux Operating system. There is no direct upgrade from the 4.8.x 32bit appliance from the console.

TOPICS COVERED

During the course of this guide, you will:

Upgrade from a standalone 4.8.x hub to a 5.0 hub.

Upgrade from a standalone 4.8.x hub to a 5.0 hub and 5.0 database.

Upgrade from a 4.8.x hub and 4.8.x database to 5.0 hub and 5.0 database.

*Note: *It is recommended in most cases to go to the separate Hub/DB model, even if currently running the hub in standalone mode. This will offer the best scalability and performance going forward**

Please refer the Stratusphere Hub Disk Sizing Spreadsheet located at:

<http://www.liquidwarelabs.com/support/documentation.asp>

[Stratusphere HUB Disk Sizing Spreadsheet](#) - calculates the amount of space to allocate for your Stratusphere HUB

TARGET AUDIENCE

This document is meant for consultants and customers who are currently using Stratusphere UX for monitoring and validating their VDI deployments. In some cases, customers who are using Stratusphere FIT may also use this upgrade. If you have questions, please contact support at support@liquidwarelabs.com

PREREQUISITES

In most case when going from single 4.8.1 Hub to the 5.0 Hub you will reuse the original 4.8.1 Hub's IP with the 5.0 Hub. But in cases where you are using a separate 4.8.1 DB your will need to setup a new IP/DNS name for the 5.0 DB server.

Please use the table below as an example to plan your upgrade.

Version 4.8.1	Current	Version 5.0	New
Database (Leave blank if using Hub and Database in one virtual appliance)		Database (Blank if using combined Hub and Database in one appliance)	
<i>IP</i>		<i>IP</i>	
<i>Hostname</i>		<i>Hostname</i>	

Hub		Hub	
IP		IP	(reuse from 4.8.1)
Hostname		Hostname	
DNS Name (resolvable Hub Address)		DNS Name (resolvable Hub Address)	(will be maintained during upgrade)

UPGRADING THE STRATUSPHERE HUB/DATABASE

Before proceeding please download all necessary files from Liquidware Labs download site located at:

<http://www.liquidwarelabs.com/Download/>

UPGRADE FROM A STANDALONE STRATUSPHERE 4.8.X TO 5.0 STANDALONE HUB

- Install new 5.0 Hub from OVF or other distribution format
- Resize the data disk (4GB Hard Disk 2) to the appropriate size that allows for existing data and future growth.
- Power on the Hub. It will start up with a DHCP address.
- If you don't have a DHCP server, you can configure the IP from the lwl console's "Network Config" option.
- Use alt-F2 and login to the console as root
- Run the lwl console by typing the command:: lwl
- From the menu, choose option: D) Database Utilities

```

Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps Storage Views
LWL HUB Menu
=====
N) Network Config
C) Run LWL Console (old)
D) Database Utilities
R) Reboot Server
S) Shutdown Server

Q) Quit

Your Choice? D_

```

- Within Database Utilities, choose option C) Copy DB from remote HUB/DB
- Answer 'yes' to 'Do you want to overwrite this local database'
- Enter the IP address of the 4.8.1 (old) hub

```

Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps Storage Views
-----
LWL Database Utility for Stratusphere/ProfileUnity HUB/DB
Copyright 2012, Liquidware Labs Inc.
-----

This program will connect to a remote HUB/DATABASE and export all the data
to this local Database VM. The information from the remote database will be
inserted directly into this local Database.

This will cause no harm to the remote HUB/DB.

The database on this localhost VM contains data.
Do you want to delete it? and import a database from a remote HUB/DATABASE?
The databases on this localhost will ONLY be dropped if the remote
can be successfully contacted and all looks good.

Do you want to overwrite this local database (yes/no) ? yes
Enter the IP of the remote HUB/DB (q to quit, enter for [10.10.3.30]): _

```

- When the copy is done, select: G) Get configuration from a Hub
- When prompted, shutdown the old hub by typing yes
- Then, select: P) Put configuration on a Hub
- Use the default 127.0.0.1 address

```

Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps Storage Views
-----
LWL Database Utility for Stratusphere/ProfileUnity HUB/DB
Copyright 2012, Liquidware Labs Inc.
-----

This program will connect to a remote HUB/DATABASE and put back the
HUB configuration files (reports/certs). They will be copied from
local folder '/home/friend/migrate' and be pushed to a new HUB.

Enter the IP of the remote HUB/DB (q to quit, enter for [127.0.0.1]): _

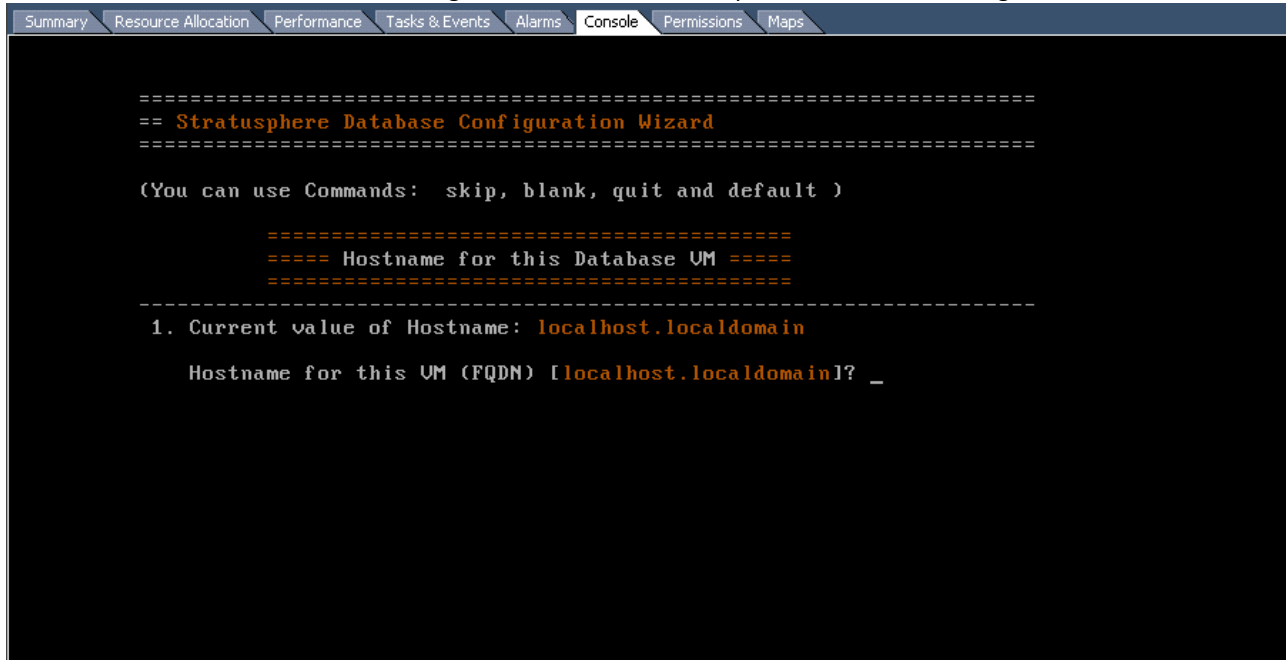
```

- Type yes, when prompted to push the configuration to remote hub.
- Reboot the hub when prompted.

At this point the new hub has all the data and configuration from the old hub and the old hub is shutdown. Change the IP of the new hub to the old IP by logging in as root, going to the LWL console by typing lwl at the prompt and choosing: N) Network Config and setting the IP address.

UPGRADE FROM A STANDALONE STRATUSPHERE 4.8.X HUB TO BOTH HUB AND DATABASE IN VERSION 5.0

- Install a new 5.0 hub from OVF or other distribution format
- Install a new 5.0 Database OVF or other distribution format
- Resize the database disk to match the data disk on the hub
- Power on the 5.0 Database and go to the console and complete the database configuration wizard.

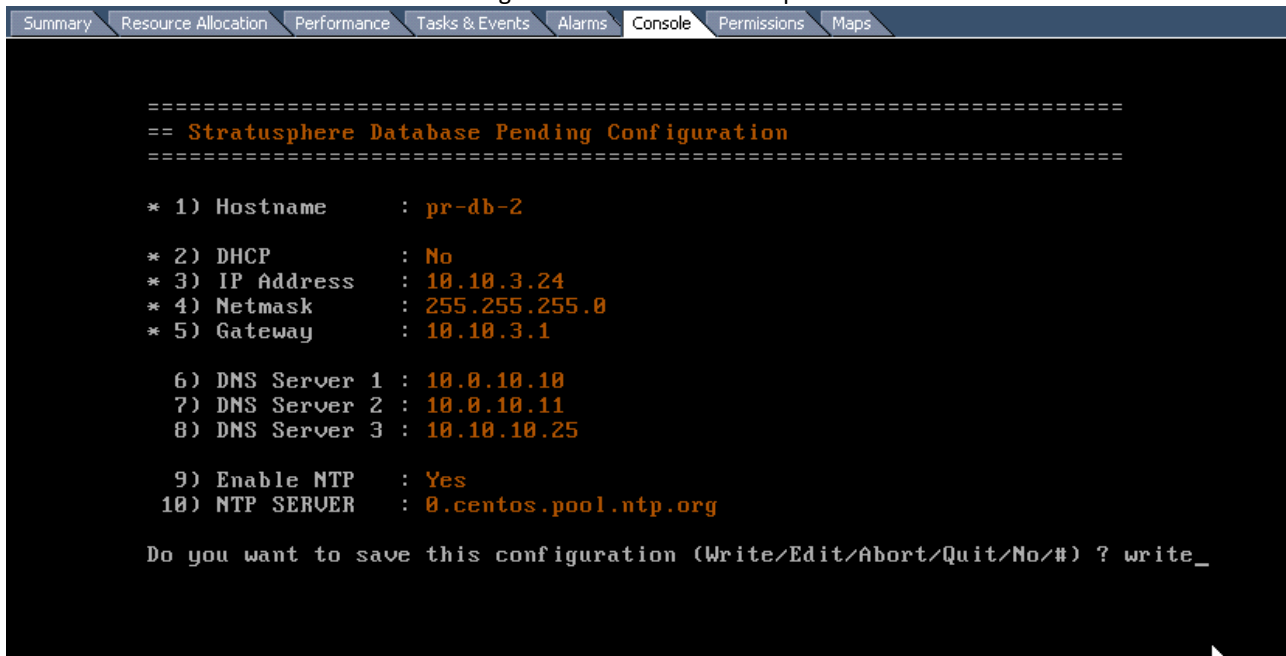


```
Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps
=====
== Stratusphere Database Configuration Wizard
=====
(You can use Commands: skip, blank, quit and default )

=====
==== Hostname for this Database UM ====
=====
-----
1. Current value of Hostname: localhost.localdomain

Hostname for this UM (FQDN) [localhost.localdomain]? _
```

- Set the hostname, say no to DHCP, provide a fixed IP, set the other configuration parameters, verify the values are correct and save the configuration with the 'write' option.



```
Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps
=====
== Stratusphere Database Pending Configuration
=====

* 1) Hostname      : pr-db-2
* 2) DHCP          : No
* 3) IP Address    : 10.10.3.24
* 4) Netmask       : 255.255.255.0
* 5) Gateway       : 10.10.3.1

6) DNS Server 1   : 10.0.10.10
7) DNS Server 2   : 10.0.10.11
8) DNS Server 3   : 10.10.10.25

9) Enable NTP     : Yes
10) NTP SERVER    : 0.centos.pool.ntp.org

Do you want to save this configuration (Write/Edit/Abort/Quit/No/#) ? write_
```

- Use alt-F2 to login to the console. Use root as the login and sspassword for the password.
- Type 'lwl' to access the LWL menu. You should see the screen below. Choose 'U' to go through the Upgrade Version 4 to Version 5 Walk-through

```
=====
      LWL Database Appliance Menu
=====
Database: (pid 3209) is running... Select OK

C) Console Status Screen
N) Network Config
D) Database VM Utilies
J) Join this DB to a HUB Walk-through
U) Upgrade Version 4 to Version 5 Walk-through

P) Restart PostgreSQL Server
S) Stop PostgreSQL Server
R) Change ROOT password
F) Change FRIEND password
6) Reboot Server (init 6)
0) Shutdown Server (init 0)

Q) Quit

** Please change the root password (option 'r')
** Please change the password for user 'friend' (option 'f')

19:18:47 - Your Choice? U_
```

- Enter the IP address of your 4.8 hub when prompted and continue till the migration of the data is complete. During this process the services on the 4.8 hub will be shut down.
- When prompted, type 'yes' to shutdown the remote (4.8) HUB.


```
Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps
Exporting the databases from remote HUB and importing locally
DB: profileunity
   OK - Exported database

DB: portal ( At the end of the import indexes are created.
           The time will increment but not the bytes copied. )
   236 Megabytes Copied, 1 Meg/Sec at 2:00
   Copy is complete
   OK - Exported database

Getting table count from local Database
   Table Count: 1515
   OK - Database counts match

Doing final check
   OK - Report Folder copied
   OK - Cert Folder copied
   OK - DB Table count

Do you want to shutdown the remote HUB/DB (yes/no)? yes
Shutting down remote HUB/DB

—
```

NOTE: At this point the user needs to CTRL-C to get out.

- Type CTRL-C
- Type 'lwl' to return to the LWL Menu
- Select 'U': CONTINUE Upgrade Version 4 to Version 5 Walk-through

The wizard will prompt you to power on the 5.0 Hub

- Power on the 5.0 hub
- Configure it to the same IP and DNS name as the 4.8.x hub that was just shutdown
 - Log on to web UI
 - Use the trial license (The actual license will be migrated during the upgrade process)
 - Make sure the IP address and the DNS name are set to exactly the same value as the 4.8.x hub.
- Return to the DB console and continue with the wizard
- Let wizard complete the upgrade.
- When prompted to reboot the 5.0 hub, choose 'yes'
- Quit the wizard and logout of DB console.

```
=====
      LWL Database Appliance Menu
=====
Database: (pid 11781) is running... Select OK

C) Console Status Screen
N) Network Config
D) Database VM Utilities
J) Join this DB to a HUB Walk-through
U) CONTINUE Upgrade Version 4 to Version 5 Walk-through

P) Restart PostgreSQL Server
S) Stop PostgreSQL Server
R) Change ROOT password
F) Change FRIEND password
6) Reboot Server (init 6)
0) Shutdown Server (init 0)

Q) Quit

** Please change the root password (option 'r')
** Please change the password for user 'friend' (option 'f')

19:53:53 - Your Choice? █
```

- Access the web UI.

UPGRADE FROM A STRATOSPHERE 4.8.X HUB WITH 4.8.X DATABASE TO A 5.0 HUB AND 5.0 DATABASE

- Install a new 5.0 hub from OVF or other distribution format
- Install a new 5.0 Database OVF or other distribution format
- Resize the 5.0 database disk to match the size of the 4.8.x database
- Power on the 5.0 Database and go to the console and complete the database configuration wizard.

```
Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps
=====
== Stratosphere Database Configuration Wizard
=====

(You can use Commands: skip, blank, quit and default )

=====
==== Hostname for this Database UM ====
=====

1. Current value of Hostname: localhost.localdomain

Hostname for this UM (FQDN) [localhost.localdomain]? _
```

- Set the hostname, say no to DHCP, provide a fixed IP, set the other configuration parameters, verify the values are correct and save the configuration with the 'write' option.

```
Summary Resource Allocation Performance Tasks & Events Alarms Console Permissions Maps
=====
== Stratosphere Database Pending Configuration
=====

* 1) Hostname      : pr-db-2
* 2) DHCP          : No
* 3) IP Address    : 10.10.3.24
* 4) Netmask       : 255.255.255.0
* 5) Gateway       : 10.10.3.1

6) DNS Server 1   : 10.0.10.10
7) DNS Server 2   : 10.0.10.11
8) DNS Server 3   : 10.10.10.25

9) Enable NTP     : Yes
10) NTP SERVER    : 0.centos.pool.ntp.org

Do you want to save this configuration (Write/Edit/Abort/Quit/No/#) ? write_
```

- Use alt-F2 to login to the console. Use root as the login and sspassword for the password.
- Type 'lwl' to access the LWL menu. You should see the screen below.

```
=====
      LWL Database Appliance Menu
=====
Database: (pid 3135) is running... Select OK

C) Console Status Screen
N) Network Config
D) Database VM Utilities
J) Join this DB to a HUB Walk-through
U) Upgrade Version 4 to Version 5 Walk-through

P) Restart PostgreSQL Server
S) Stop PostgreSQL Server
R) Change ROOT password
F) Change FRIEND password
6) Reboot Server (init 6)
0) Shutdown Server (init 0)

Q) Quit

** Please change the root password (option 'r')
** Please change the password for user 'friend' (option 'f')

22:04:23 - Your Choice? _
```

1. Use D) Database VM Utilities

```
=====
      LWL Database Appliance Menu
=====
Database: (pid 3135) is running... Select OK

C) Console Status Screen
N) Network Config
D) Database VM Utilies
J) Join this DB to a HUB Walk-through
U) Upgrade Version 4 to Version 5 Walk-through

P) Restart PostgreSQL Server
S) Stop PostgreSQL Server
R) Change ROOT password
F) Change FRIEND password
6) Reboot Server (init 6)
0) Shutdown Server (init 0)

Q) Quit

** Please change the root password (option 'r')
** Please change the password for user 'friend' (option 'f')

22:38:37 - Your Choice? D_
```

2. Use C) Copy DB from remote HUB/DB (Use 4.x DB's IP)

```
-----  
Database VM Utilies  
-----
```

```
M) Migrate DB from remote HUB/DB  
C) Copy DB from remote HUB/DB  
J) Join this DB to a HUB  
G) Get Configuration from a HUB  
P) Put Configuration on a HUB  
U) Clear Upgrade Wizard, let it run again  
Q) Quit
```

```
Your Choice? C_
```

```
This program will connect to a remote HUB/DATABASE and export all the data  
to this local Database VM. The information from the remote database will be  
inserted directly into this local Database.
```

```
This will cause no harm to the remote HUB/DB.
```

```
Enter the IP of the remote HUB/DB (q to quit, enter for [10.10.3.230]):
```

```
Testing connection to HUB/DB 10.10.3.230  
OK - Connection to remote HUB/DB
```

```
Testing user 'friend' connection on localhost  
OK - friend Password on localhost
```

```
Testing user 'friend' connection at remote HUB/DB 10.10.3.230  
OK - friend Password on remote HUB/DB
```

```
Testing ROOT connection to remote HUB/DB
```

3. Use G) Get Configuration from a HUB (Use 4.x HUB's IP)
4. Choose 'yes' to when prompted to shutdown remote hub.
5. Power off the 4.x DB
6. Power on the 5.0 hub
7. Configure it to the same IP and DNS name as the 4.8.x hub that was just shutdown
 - a. Log on to web UI
 - b. Use the trial license (The actual license will be migrated during the upgrade process)
 - c. Make sure the IP address and the DNS name are set to exactly the same value as the 4.8.x hub.
8. Go back to the 5.0 DB, go to Database Utilities, Use J) Join this DB to a HUB (Use 5.x HUB's IP)
9. Say yes when prompted to "Put Configuration .."
10. Check UI on 5.0 hub.

UPGRADE CONNECTOR ID KEYS FROM 4.8.1 TO 5.0

- Go to your new 5.0 hub's web interface.
- Log on to the Administration user interface.

hin



Log In

Product: Administration Domain: Local Directory User name: ssadmin Password: <input type="button" value="Log In"/>	Licensed Products: <input checked="" type="checkbox"/> Stratusphere Fit — <i>Assessment and capacity planning</i> <input checked="" type="checkbox"/> Stratusphere UX — <i>Diagnostics and service level assurance</i> <input checked="" type="checkbox"/> ProfileUnity — <i>User profile migration and management</i> Licensed To: LWL (NOT FOR RESALE) License Expires: Desktop Limit: 130 used out of unlimited User Limit: 120 used out of unlimited
--	---

Version: 5.0.1
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- Go to Hub Administration → Connector ID Keys → Connector ID Key Properties.



[Administration](#) | [Print](#) | [Help](#) | [Log Out](#)

Hub Administration
Station Administration
Inventory
Event Log
Licensing
Configuration

Data Retention
Connector ID Keys
ProfileUnity Agents
VM Directories
User Directories

Connector ID Key Software Administration

Connector ID Key Properties
Connector ID Key Software

These properties are used when you create a new machine and are also applied to all existing Connector ID Keys installed on configured machines. Properties are updated on each Connector ID Key only after it calls back to the Stratusphere Hub. You can set Connector ID Key properties for individual machines in [Inventory > Machines](#).

Properties

1. Under the Properties heading check the checkbox next to "Automatically update Connector ID Keys when new software versions are installed on the Stratusphere Hub."
2. Then scroll to the bottom and select the group of machines on which you wish to update Connector ID Keys. If you select "All Machines" then all Connector ID Keys that connect to this hub will be automatically updated.
3. Finally, Click the "Apply Changes To" button.

1 Automatically update Connector ID Keys when new software versions are installed in the Stratusphere Hub.

Automatically uninstall Connector ID Key software.
Use this option to remove Connector ID Keys after a defined interval from install date.

Properties that only apply to advanced versions

Enable Connector ID for TCP connections.
Use this option to monitor or control TCP connections.

Enable Connector ID for UDP connections.
Use this option to monitor or control UDP connections.

This group of machines 2

3 Newly registered Connector ID Keys (make this the new default)

Your Connector ID Keys will pick up this setting when they call back to the hub and will complete the software update upon their next reboot.