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Installing SQL Anywhere 17 on Ubuntu 14.04

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Purpose

This wiki shows steps required to install SQL Anywhere 17.0.4 on Linux. Ubuntu 14.04 was used in this WIKI but the process should be identical for other variant of Linux types as well. For list of supported Linux Platforms, please refer to this SCN post.

Overview

This wiki will cover installation of SQL Anywhere 17 on Ubuntu 14, setting up environment and testing the sample demo database created by the newdemo script.

Install SQL Anywhere 17

1. Transfer the installer archive to the system.

```
root@         :~/SQLAnywhere17# pwd
/home/        /SQLAnywhere17
root@         :~/SQLAnywhere17# ls
sqla17_linux_x86+x64.1704_2129_l10n.tar.gz
```

2. Unzip and extract the installer archive.

```
root@         :~/SQLAnywhere17# tar -xvzf sqla17_linux_x86+x64.1704_2129_l10n.tar.gz
./sqlany17/
./sqlany17/langres.noarch.tic
./sqlany17/synch.32.tic
./sqlany17/bin64/
./sqlany17/bin64/dbversion
./sqlany17/bin64/dbinstall
./sqlany17/bin64/dbupdhlpr
./sqlany17/bin64/is_utf8
./sqlany17/bin64/gsetup
./sqlany17/bin64/csconvert
./sqlany17/lib64/
./sqlany17/lib64/libdbicu17_r.so
./sqlany17/lib64/libdbicudt17.so.1
./sqlany17/lib64/libdbtasks17.so
./sqlany17/lib64/libdbtasks17_r.so
./sqlany17/lib64/libdbtasks17_r.so.1
./sqlany17/lib64/libdbicudt17.so
./sqlany17/lib64/libdbicu17.so.1
./sqlany17/lib64/libdbicu17.so
./sqlany17/lib64/libdbicu17_r.so.1
./sqlany17/lib64/libdbtasks17.so.1
```

3. Browse into the newly created sqlany17 directory.

```
root@         :~/SQLAnywhere17# ls
sqla17_linux_x86+x64.1704_2129_l10n.tar.gz  sqlany17
root@         :~/SQLAnywhere17# cd sqlany17
root@         :~/SQLAnywhere17/sqlany17#
```

4. Run ./setup to start installation.

```
root@         :~/SQLAnywhere17/sqlany17# ./setup
Welcome to the SQL Anywhere 17.0.4 Setup program.

This program will install SQL Anywhere 17.0.4
on your computer.

Press ENTER to continue ...
```

5. Select the location and language for installation and follow the instructions.

```
Please select the location where you are installing this software:
(If your location is not listed, please use one of the general regions.)

1)  Argentina                    2)  Australia
3)  Belgium - English            4)  Brazil
5)  Canada                       6)  Denmark
7)  France - English             8)  France - French
9)  Germany - English            10) Hong Kong
11) India                        12) Italy - English
13) Italy - Italian              14) Japan
15) Korea                        16) Malaysia
17) Mexico                       18) Netherlands
19) New Zealand                  20) Norway
21) People's Republic of China   22) Singapore
23) South Africa                 24) Spain - English
25) Spain - Spanish              26) Sweden
27) Switzerland - English        28) Taiwan
29) United Kingdom               30) United States of America
31) Asia Pacific Region - General
32) Latin America Countries - Other than Argentina, Brazil and Mexico
33) Europe, Middle East and Africa - General
34) Americas and Asia Pacific - General

Please select the number for your country or region and press ENTER:
```

6. Read the license agreement (Press 'Q' to scroll to the end) and enter Y to accept the agreement.

```
Installation by Agent or other Third Party.  If you are downloading or installing the Program
on behalf of another person or entity, you hereby represent and warrant that you have the auth
ority to bind the party or entity for which you are performing the download or installation to
 the terms and conditions of this Agreement.  If you do not have such authority, you may not d
ownload or install the Program.


If you cannot see this agreement, you can find and read a copy here:
http://global.sap.com/corporate-en/our-company/agreements/index.epx


I AGREE to the terms of the SAP license, for the install location specified [N/Y]:
Y
```

7. Select your installation type and press Enter key.

```
Please select an installation type:

1. Create a new installation
2. Modify an existing installation
3. Upgrade an existing installation

Choice [1]:
1
```

8. Enter registration key. To install the Developer Edition, press Enter without providing any key and hit Enter once and again.

```
Please enter your registration key.

If you have more than one registration key to enter (e.g., you have already
purchased Add-ons), you may enter multiple keys by separating them with a
comma.

If you don't have a registration key, press ENTER to install the Developer Edition
No registration key is required. Use for development and testing but not for
production use or deployment.
```

9. Select the components you want to install, and press 'S' and Enter to start the installation.

```
Please select the components you want to install:

[ X ] 1. Databases (5 of 6 selected)
[ X ] 2. Synchronization (2 of 4 selected)
[ X ] 3. Administration Tools (64-bit)
[    ] 4. Administration Tools (32-bit)
[ X ] 5. SQL Anywhere Monitor (64-bit)
[    ] 6. SQL Anywhere Monitor (32-bit)
[ X ] 7. Relay Server (64-bit)
[ X ] 8. Samples
[ X ] 9. FIPS-Approved Strong Encryption
[ X ] 10. High Availability
[ X ] 11. In-Memory Mode
[ X ] 12. Read-Only Scale-Out
[ X ] 13. SACI SDK

       A. Select all options.
       D. Select default options.
       N. Select no options.

       H. Help.
       S. Start Install.
       Q. Exit Setup.

Choice:
S
```

10. Enter the installation directory (empty for default path of /opt/sqlanywhere17) and confirm the settings.

```
The following components will be installed:

- SQL Anywhere Client (64-bit)
- SQL Anywhere Server (64-bit)
- SQL Anywhere Client (32-bit)
- UltraLite Engine (32-bit)
- UltraLite Engine (64-bit)
- MobiLink (64-bit)
- SQL Remote (64-bit)
- Administration Tools (64-bit)
- SQL Anywhere Monitor (64-bit)
- Relay Server (64-bit)
- Samples
- FIPS-Approved Strong Encryption
- High Availability
- In-Memory Mode
- Read-Only Scale-Out
- SACI SDK

Target directory:

- /opt/sqlanywhere17


Are you satisfied with the settings? [N/Y]:
Y
```

11. Enter server license information and confirm the settings.

```
Please enter the following server license information:

Enter your name []:
████ ███

Enter your company name []:
SAP


Enter number of Seats [25]:
25
Server License information:

Name: ███ ███
Company: SAP
Licensed Seats: 25

Are you satisfied with the settings? [N/Y]:
Y
```

12. Enter the desired settings for shortcuts and usage information collection.

```
Do you wish to add Applications menu items for SQL Anywhere 17? [N/Y]:
n


Would you like to create a desktop shortcut for SQL Central now? [N/Y]:
n


Do you wish to allow SQL Anywhere 17 to send information about
product/feature usage to SAP SE?
For information about how the collected data is used,
see: http://scn.sap.com/docs/DOC-35055
No personal information is gathered or sent. [Y/N]:
y
```

13. Hit Enter key to start installation process.

```
Setup will now begin to install files.

Please hit ENTER to start.
```

14. Wait for the installation to complete. When it's done, check for updates (optional).

```
Installing files into /opt/sqlanywhere17 ...
  8% bin32/createkey
```

```
Installing files into /opt/sqlanywhere17 ...

Completed.
The file install_20160906-1921.log contains the list of files installed under /opt/sqlanywhere
17.

To set your SQL Anywhere 17 environment you need to source the
configuration file appropriate to your shell and the bitness of
SQL Anywhere that you want to run. For example, to use the 64-bit
version of SQL Anywhere with a bourne-compatible shell, run:

  source "/opt/sqlanywhere17/bin64/sa_config.sh"

Before using the samples for SQL Anywhere 17, source the configuration script
corresponding to the bitness of SQL Anywhere you want to use with them. For
example, to configure the samples for use with 64-bit software, run:

  source "/opt/sqlanywhere17/samples/sample_config64.sh"


Would you like to check for updates now? [N/Y]:
y
```

15. Review Read Me file (optional).

Test the Installation

SQL Anywhere will only launch when the environment variables are properly loaded. There are two ways of doing it:

1. Running sa_config script in SQL Anywhere installation path for each terminal session. You may need to change permission to the file to execute the script.

```
root@          :~/SQLAnywhere17/sqlany17# dbsrv17 -v
dbsrv17: command not found
root@          :~/SQLAnywhere17/sqlany17# . /opt/sqlanywhere17/bin64/sa_config
.sh
root@          :~/SQLAnywhere17/sqlany17# dbsrv17 -v
17.0.4.2129
```

2. Adding the following line at the end of /etc/bash.bashrc file. This is permanent solution and do not need to be repeated for each terminal session:

```
# /opt/sqlanywhere17 is the default installation path
# change this below if not using the default path
export PATH="$PATH:/opt/sqlanywhere17/bin64"
export LD_LIBRARY_PATH="$LD_LIBRARY_PATH:/opt/sqlanywhere64/lib64"
```
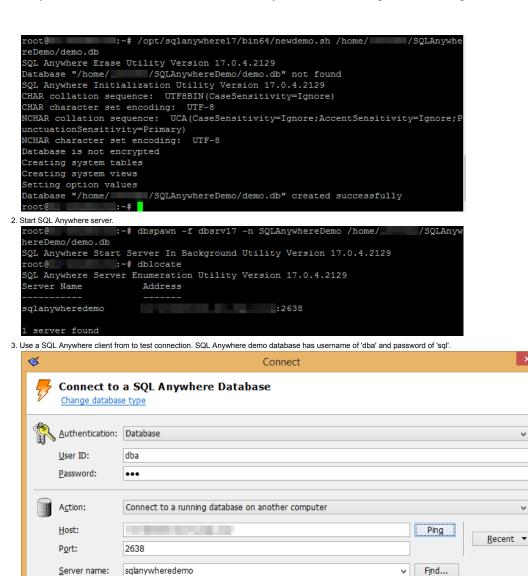
Start and Connect to the demo Database

1. Create a sample database with newdemo.sh script:

```
root@          :~# /opt/sqlanywhere17/bin64/newdemo.sh /home/          /SQLAnywhe
reDemo/demo.db
SQL Anywhere Erase Utility Version 17.0.4.2129
Database "/home/          /SQLAnywhereDemo/demo.db" not found
SQL Anywhere Initialization Utility Version 17.0.4.2129
CHAR collation sequence:  UTF8BIN(CaseSensitivity=Ignore)
CHAR character set encoding:  UTF-8
NCHAR collation sequence:  UCA(CaseSensitivity=Ignore;AccentSensitivity=Ignore;P
unctuationSensitivity=Primary)
NCHAR character set encoding:  UTF-8
Database is not encrypted
Creating system tables
Creating system views
Setting option values
Database "/home/          /SQLAnywhereDemo/demo.db" created successfully
root@          :~#
```
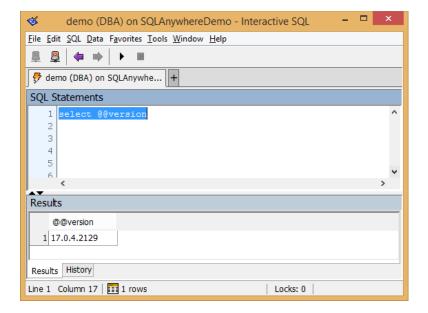
2. Start SQL Anywhere server.

```
root@          :~# dbspawn -f dbsrv17 -n SQLAnywhereDemo /home/          /SQLAnyw
hereDemo/demo.db
SQL Anywhere Start Server In Background Utility Version 17.0.4.2129
root@          :~# dblocate
SQL Anywhere Server Enumeration Utility Version 17.0.4.2129
Server Name          Address
-----------          -------
sqlanywheredemo                              :2638

1 server found
```

3. Use a SQL Anywhere client from to test connection. SQL Anywhere demo database has username of 'dba' and password of 'sql'.

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