
uDCV Installation Guide Documentation

Release 3.0.3

uinnova

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Introduce

This documentation provides guidelines to install uinnova DataCenter Visualizer, or uDCV. There are 3 major steps to install and running uDCV, as shown below:

2.1 Prerequisites

The deployment model of uDCV is Browser-Server, or BS.

2.1.1 Server Side Requirements

- **Hardware**
 - CPU: 4 Core, 2.8GHz+
 - Memory: > 16G
 - HardDisk: > 300G
- **Operation System**
 - Windows Server 2008 English 64bit (recommended)
 - Windows 10 Server English

2.1.2 Client Side Requirements

- **Hardware**
 - CPU: Dual Core, 2.8GHz+
 - Memory: > 4G
 - HardDisk: > 10G
 - Video Card: NVIDIA Geforce GTX560 or higher
- **Operation System**
 - Windows 10 pro English(recommended)
- **Software Requirements**
 - Internet Explorer(IE) 11, **32bit**
 - JDK 1.7.0_x

Note: About video card. uDCV run its propriety 3D engine, Treasure 3D (T3D) in client side browser, the more 3D rendering capabilities in client side machine, which is highly depends on video card, the more ‘details’ and ‘fluency’ will shown while interact with the 3D system.

Note: 32bit Internet Explorer. uDCV **only** runs on **32bit** version of Internet Explorer, to open 32bit version of Internet Explorer, create a desktop shortcut to the executable: C:\Program Files (x86)\Internet Explorer\iexplore.exe

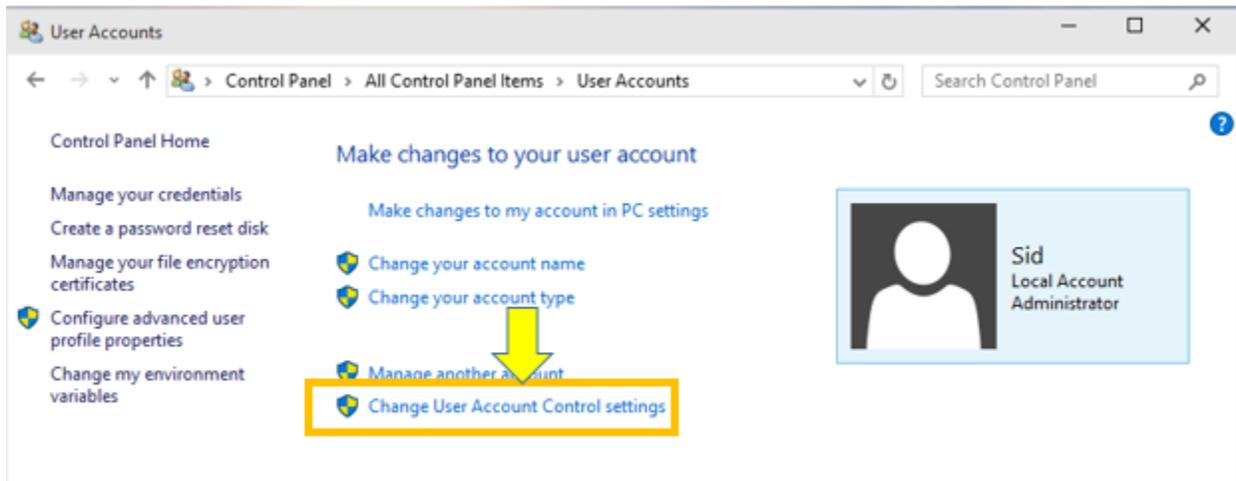
2.2 Environment Setup

2.2.1 Disable UAC (User Access Control) in Client Side

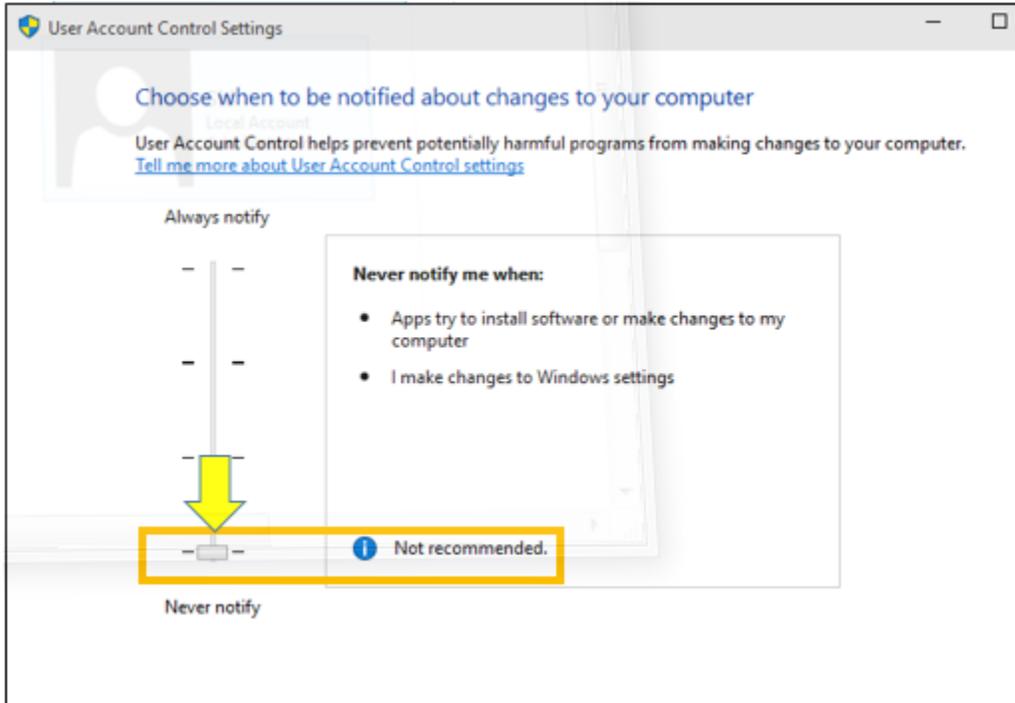
User Account Control (UAC) is a security protocol which was introduced in Windows Vista. UAC limits the administrative privileges to only those applications which are trusted by the user, and any applications or process which does not inherit administrative privileges will have to be authorized even if the user running it has administrator account. UAC will prompt you via a pop up message when an application or process tries to make a change to the system. You can then allow or deny the access in the UAC prompt.

As a uDCV user, you may not want these UAC prompts and can disable them by following the below mentioned steps.

1. Open the Control Panel (icons view) and select User Accounts.
2. Click on the Change User Account Control settings link.



4. If prompted by UAC, click on Yes to continue.
5. In the User Account Control settings, move the slider to the bottom (Never Notify).



7. If prompted by UAC, click on Yes to continue.

2.2.2 Adjust video card settings

Adjust video card settings to maximum performance, please refer to video card manual for details.

2.3 Install and Running

2.3.1 Install JDK 1.7.0_x

Check the JAVA runtime version on client PC, it **must** show version 1.7.0_x, as shown below:

```
Administrator: C:\Windows\system32\cmd.exe
C:\>java -version
java version "1.7.0_60"
Java(TM) SE Runtime Environment (build 1.7.0_60-b19)
Java HotSpot(TM) 64-Bit Server VM (build 24.60-b09, mixed mode)
C:\>
```

Note: If you don't have the correct JAVA version, please install it from <http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html> Ask your representatives for assistance, if needed.

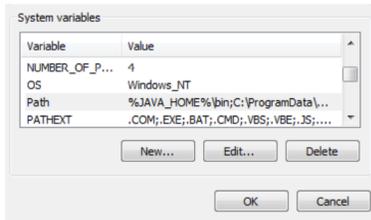
2.3.2 Setup Environment Variables

Set JAVA_HOME

1. Create a new environment variable name `JAVA_HOME` if not exists.
2. Set the value of `JAVA_HOME` to the folder where `JDK 1.7.0_x` is installed.

Add Java Executable to System Path

Add Java executable folder `%JAVA_HOME%\bin` to system path.



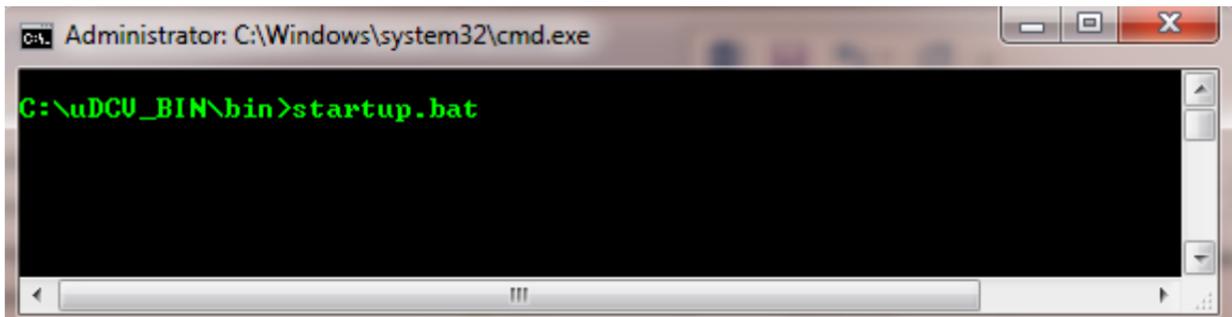
2.3.3 Unzip uDCV Tarball

Unzip the folders to local drive, e.g. `C:\`, There are three folders in the tarball:

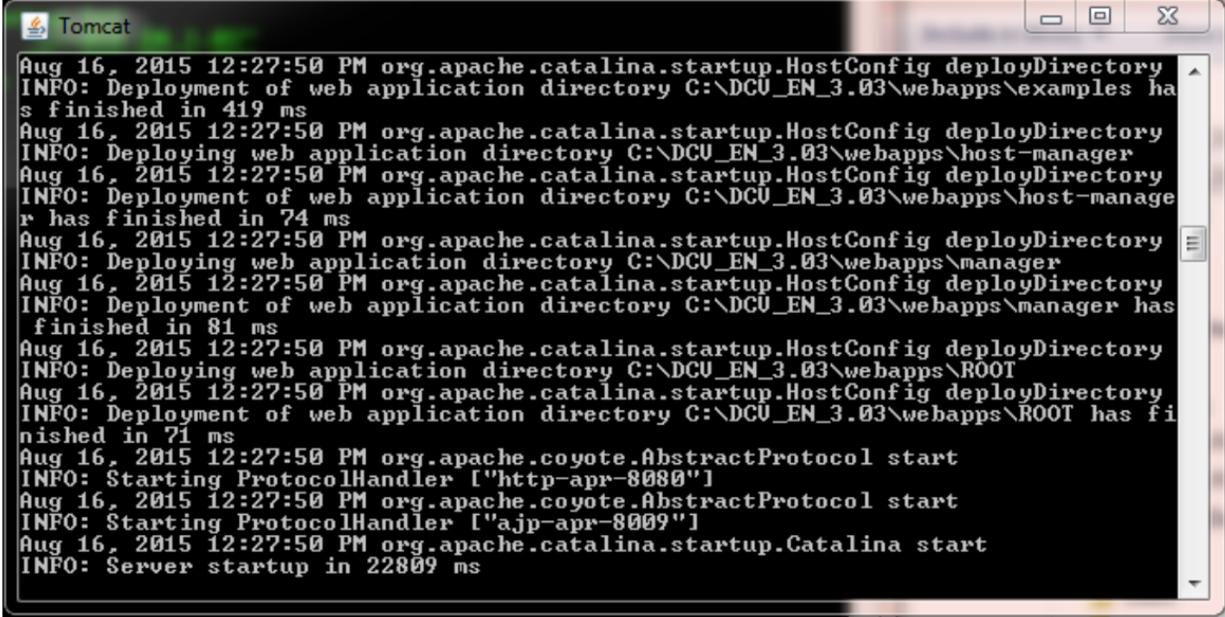
1. `uDCV_BIN` (Server)
2. `uDCV_DATA` (Demo data)
3. `uDCV_UTIL` (Utility file)

2.3.4 Start uDCV Server

1. Login as **Administrator**
2. Open windows command line window and `cd` to `{uDCV_BIN}/bin` folder
3. Run `startup.bat`



4. Wait until uDCV server has started in a pop up window, it shall shows `INFO: Server startup in xxxxx ms`



```

Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory C:\DCU_EN_3.03\webapps\examples has
finished in 419 ms
Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\DCU_EN_3.03\webapps\host-manager
Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory C:\DCU_EN_3.03\webapps\host-manage
r has finished in 74 ms
Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\DCU_EN_3.03\webapps\manager
Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory C:\DCU_EN_3.03\webapps\manager has
finished in 81 ms
Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory C:\DCU_EN_3.03\webapps\ROOT
Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deployment of web application directory C:\DCU_EN_3.03\webapps\ROOT has fi
nished in 71 ms
Aug 16, 2015 12:27:50 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-apr-8080"]
Aug 16, 2015 12:27:50 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-apr-8009"]
Aug 16, 2015 12:27:50 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 22809 ms

```

Note: uDCV server must be run as **Administrator**

5. Enter this URL in IE to access the uDCV: http://localhost:8080/dcv_jupiter1

Note: Before use uDCV, user need to *apply license*

2.4 Apply License

2.4.1 Obtain Machine Code

Copy the **machine code** in license page and email to <mailto:support@uinnova.com> or your sales representatives to request a license.

System license

License status: No license

1.Obtain license code by click the link in right hand side.

2.Email code to support@uinnova.com or contact uinnova sales representative.

Import License

Click to copy the license code

Project code: uiniv_dev

Machine code:

2.4.2 Apply License

If you have already received the license file, click **Import License**, and choose the license file you received. Once the license is imported successfully, you will see this login page.

