**ANT (Force.com Migration Tool) Installation Guide:**

**#Prerequisites for Using the Force.com Migration Tool:**

1) The Force.com Migration Tool works with Java version 1.6.x or later. If you have an earlier version, you’ll need to install Java 1.6.x or later.

2) To install Java, go to <http://www.oracle.com/technetwork/java/javase/downloads/index-jdk5-jsp-142662.html> and get the latest version of the Java JDK. When you’re finished with the installation, verify by typing java -version at a command prompt.

**To install and configure Ant:**

1. Download Apache Ant version 1.6 or newer to a directory of your choice: <http://ant.apache.org/bindownload.cgi>

This directory will be known as ANT\_HOME. Once the files are on your computer, there is no further installation required.

2. If you are using a Windows operation system, create an ANT\_HOME environment variable and set the value to where you have installed Ant. Also create a JAVA\_HOME environment variable and set the value to the location of your JDK.

3. To know whether the correct version of ANT is installed you can start up a shell and type ant -version. You should see something like: Apache Ant version 1.7.1 compiled on June 27 2008

**Setting the environment variables:**

**To set any environment variable:**

Go to Computer>>properties>>Advanced system settings>>Environment variables.

1. To set **ANT\_HOME** environment variable: Variable name: ANT\_HOME, Variable Value: URL to the directory where you copied the Apache ANT File

Example value: C:\ANT\apache-ant-1.9.4 (Where ANT is the name of the folder which contains the ant file)

2. To set **JAVA\_HOME** environment variable: Variable name: JAVA\_HOME, Variable Value: URL to the directory where JAVA JDK exists.

Example value: C:\Program Files\Java\jdk1.8.0\_05

3. To set **PATH** environment variable: Go to>>System Variables>>Edit the PATH and set PATH=%PATH%;%ANT\_HOME%\bin (Just append the URL till bin an do not remove any other value)

**Note:** If you are using the proxy servers then you have to add one more variable **ANT\_OPTS**: Name: ANT\_OPTS, **Example** Value: -Dhttp.proxyHost=z2-proxy-bas.ema.lilly.com -Dhttp.proxyPort=9000

**Installing the Force.com Migration Tool:**

1. Log into a Salesforce organization on your deployment machine.

2. From Setup, click Develop > Tools, and then click “Force.com Tools and Toolkits”.

3. Go to “Force.com Migration Tool” Save the .zip file (You will find a link named ‘Download Winter ’17 release .zip (version 38.0)’) locally and extract the contents to the directory of your choice.

4. Copy "ant-salesforce.jar" and paste into your Ant installation's lib directory. The lib directory is located in the root folder of your Ant installation.

**Check Installation:**

You can check the basic installation with opening a new shell and typing ant. You should get a message like this. This is a legitimate error message.

“Buildfile: build.xml does not exist!

Build failed”

**You can refer below links to know more about Force.com migration tool:**

1. <http://www.salesforce.com/us/developer/docs/daas/salesforce_migration_guide.pdf>
2. <http://ant.apache.org/manual/install.html>