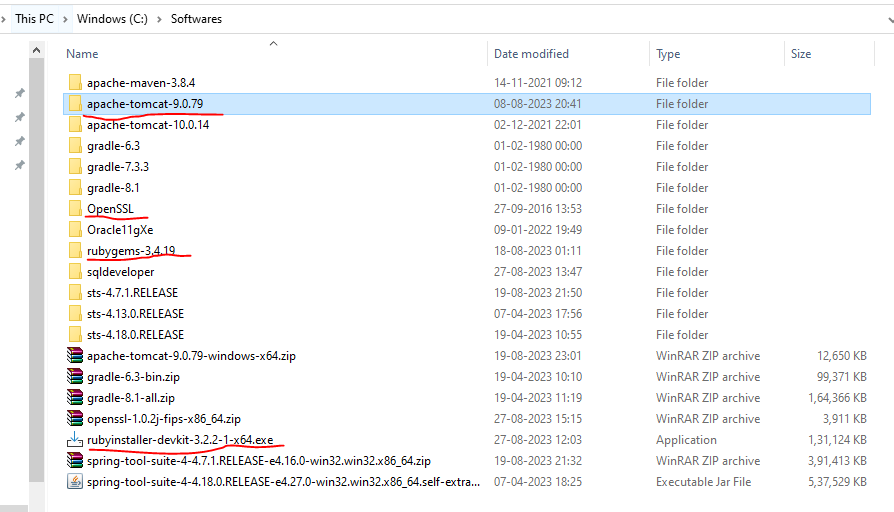
**Deploy Cloud Foundary UAA WAR**

**Required Software:**

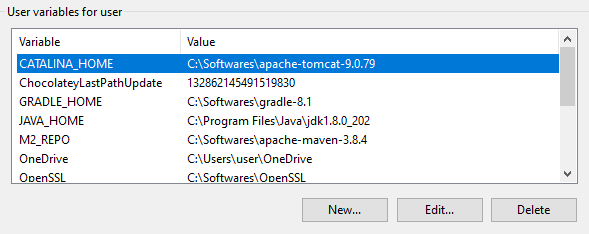
* Tomcat 7 above version
* Ruby+DevKit latest version (rubyinstaller-devkit-3.2.2-1-x64.exe)
* RubyGem latest version (rubygems-3.4.19.zip)
* OpenSSL (openssl-1.0.2j-fips-x86\_64.zip)

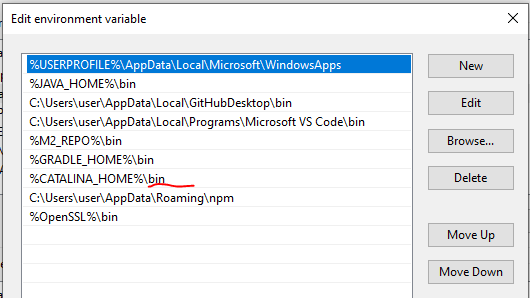
Put above four software in any folder like in “C:\Softwares” like below



**Tomcat Setup:**

* Set CATALINA\_HOME





* Change the WAR file size to deploy greater than 50 MB.

C:\Softwares\apache-tomcat-9.0.79\webapps\manager\WEB-INF\web.xml

<multipart-config>

<!-- 50MB max -->

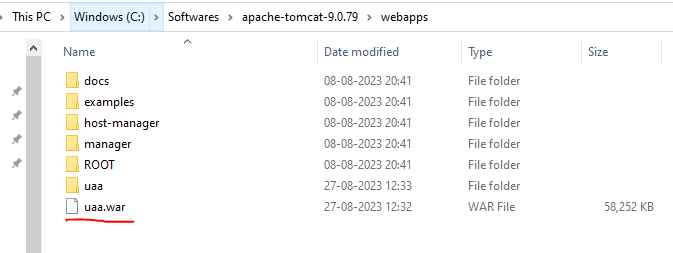
<max-file-size>104857600</max-file-size>

<max-request-size>104857600</max-request-size>

<file-size-threshold>0</file-size-threshold>

</multipart-config>

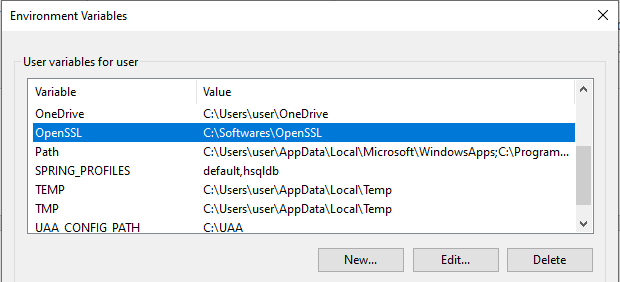
* Download CloudFoundary UAA WAR from [Maven Repository: org.cloudfoundry.identity » cloudfoundry-identity-uaa » 4.27.0 (mvnrepository.com)](https://mvnrepository.com/artifact/org.cloudfoundry.identity/cloudfoundry-identity-uaa/4.27.0) and rename with **uaa.war** and put inside “C:\Softwares\apache-tomcat-9.0.79\webapps”

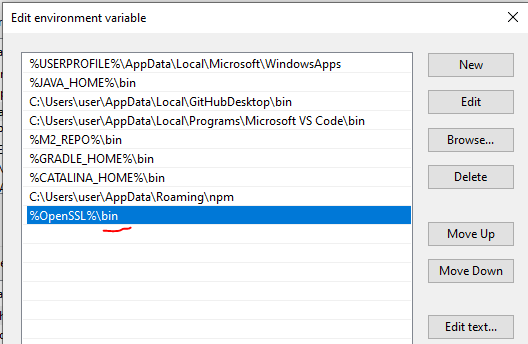


Install Ruby :

* Start setup file Ruby+DevKit (rubyinstaller-devkit-3.2.2-1-x64.exe)
* Got to the downloaded rubygem folder like “C:\Softwares\rubygems-3.4.19” and execute this command from CMD “ruby setup.rb”

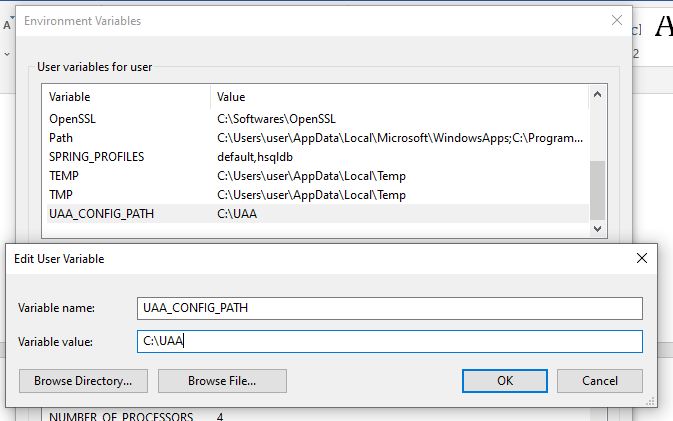
**Setup OpenSSL:**

* Create environment variable for OpenSSL.  
  

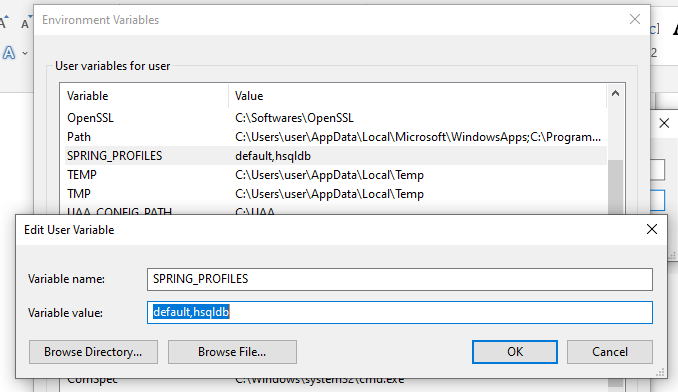


**Setup UAA:**

* Create folder in C:\ drive “C:\UAA” and here create uaa.yml file.
* Create environment variable “UAA\_CONFIG\_PATH” value “C:\UAA”



* Create environment variable “SPRING\_PROFILES” value “default,hsqldb” without double quote.



* uaa.yml file 

Generate “signingkey.pem” file, go to the “C:\UAA” folder and execute below command in CMD.

* openssl genrsa -out signingkey.pem 2048

Open the above generated file “signingkey.pem” and replace the content of

jwt:

token:

**signing-key: |**

Here content of “signingkey.pem” file content

Geneate “verificationkey.pem” file, go to the “C:\UAA” folder and execute below command in CMD.

* openssl rsa -**in** signingkey.pem -pubout -out verificationkey.pem

Open the above generated file “verificationkey.pem” and replace the content of

jwt:

token:

**verification-key: |**

Here content of “verificationkey.pem” file content

Save the uaa.yml file.

Now start the tomcat from “C:\Softwares\apache-tomcat-9.0.79\bin\startup.bat”

Once Tomcat server started successfully then execute following commands in CMD.

* gem install cf-uaac (Only one time)

Execute below command in CMD every time tomcat server startup, because UAA server using in-memory database “default,hsqldb”, better to create batch file. 

* uaac target http://localhost:8080/uaa
* uaac token client get admin -s adminsecret
* uaac client add webappclient -s webappclientsecret --name WebAppClient --scope resource.read,resource.write,openid,profile,email,address,phone --authorized\_grant\_types authorization\_code,refresh\_token,client\_credentials,password --authorities uaa.resource --redirect\_uri http://localhost:5055/\*\*
* uaac user add appuser -p appusersecret --emails appuser@acme.com
* uaac group add resource.read
* uaac group add resource.write
* uaac member add resource.read appuser
* uaac member add resource.write appuser

Now test your UAA server with following parameter in Postman.

client\_id = webappclient

client\_secret = webappclientsecret

grant\_type = password

username = appuser

password = appusersecret

