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| Appserver Installation Guide |

# Supply OWS\_JAVA\_HOME

Switch current user to root user, proceed to add OWS\_JAVA\_HOME environment variable that point to jdk of JAVA in the server.

After edit etc/environment the environment variable will be assigned to all user, login again and use echo $OWS\_JAVA\_HOME to make sure the variable is added correctly.

Sample output:

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| [way4@u-drw4pappv10 /]$ echo $OWS\_JAVA\_HOME  /usr/java/jdk1.8.0\_202-amd64 |

# Expand number of process and file handles for way4 user

Switch to root user and edit the /etc/security/limits.conf. The nproc attribute will enable the limit number of process under way4, while nofile attribute will modify the number of file handle under way4 user.

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| vi /etc/security/limits.conf  way4 soft nproc 32767  way4 hard nproc 32768  way4 soft nofile 65535  way4 hard nofile 65536  # End of file |

# Edit sysctl.conf

Switch to root user edit file **/etc/sysctl.conf.** Add the following parameters:

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| kernel.msgmni = 1024  kernel.sem = 250 256000 32 1024  fs.file-max = 65536  net.ipv4.ip\_local\_port\_range = 32768 65000 |

# **Application Server Installation**

Switch to root user, go to the folder when .tgz file of application server is located, extract them with the command:

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| cd home/oracle7/DIST/  tar -zxvf appserver-1.7.1887-rhel7-linux-x64-nojdk.tgz |

Go to the extracted folder, it has this structure:

Graphical user interface, text, application

Description automatically generated

Run the install script ./WAY4ApplicationServer-1.7.1887-Linux-x86\_64-Install script and proceed as following, the red line is user input.

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| [root@u-drw4pappv10 appserver-1.7.1553-rhel7-linux-x64-nojdk]# ./WAY4ApplicationServer-1.7.1553-Linux-x86\_64-Install  - Start installation  - This will install or upgrade standard configuration of Application Server with version 1.7.1553 on your computer.  - Previous appserver version: unknown  - Syscheck message: WAY4 Application Server 1.7: system check.  [WARN] SELinux should be disabled. Set SELINUX=disabled in /etc/selinux/config and reboot server.  [INFO] Java In Distribution: true  Java output: java version "1.8.0\_241" Java(TM) SE Runtime Environment (build 1.8.0\_241-b07) Java HotSpot(TM) Server VM (build 25.241-b07, mixed mode)  Java version check passed  Found total 1 warning(s). Please check documentation.  child process exited abnormally  - Installing Application Server from '/opt/3DS/3DSecure/ApplicationServer/appserver-1.7.1553-rhel7-linux-x64-nojdk' to '/home/way4'.  **User: 'way4'**  **Group: 'way4'**  --------------------------------------------------------------------  CA certificate was saved to /home/way4/appserver/certs/certs/CA/cacert.p12  --------------------------------------------------------------------  CA was generated successfully.  Generating certificates...  --------------------------------------------------------------------  New application certificate and key are in /home/way4/appserver/certs/certs/console.p12 file  Application certificate is in /home/way4/appserver/certs/certs/console.pem file  --------------------------------------------------------------------  Certificates were generated successfully.  Importing sertificates...  Application certificates import utility  Certificate has been successfully imported.  Certificates were imported successfully.  Adding user admin...  Application instance user management  Operation has been successfully completed.  User admin was added for application console  ------------------------------------------------------------------------  New application certificate and key are in /home/way4/appserver/certs/certs/m2\_web\_console.p12 file  Application certificate is in /home/way4/appserver/certs/certs/m2\_web\_console.pem file  --------------------------------------------------------------------  Certificates were generated successfully.  Importing sertificates...  Application certificates import utility  Certificate has been successfully imported.  Certificates were imported successfully.  Adding user admin...  Application instance user management  Operation has been successfully completed.  User admin was added for application m2\_web\_console  Patching configuration files of m2\_web\_console...  Configuration files of m2\_web\_console were patched successfully.  Application Server Console was configured successfully.  04/17/2020 10:37:55AM - SysinstallerOutput output: Solution = standard  WAY4 Application Server Installer/Upgrader  Configuration update ...  /home/way4/appserver/conf/webserver/templates file doesn't exist.  Processing applications...  System Applications Install/Upgrade ...  Processing monitoring\_ui with version 1.0.1676 from file /home/way4/appserver/temp/sysapps/monitoring\_ui-1.0.1676.war  Type: new installation  []  Building map of used ports - started.  Adding application 'monitoring' ...  The application 'monitoring' has been successfully added.  Processing m2\_web\_console with version 1.0.2138 from file /home/way4/appserver/temp/sysapps/m2\_web\_console-1.0.2138.war  Type: new installation  []  Building map of used ports - started.  Building map of used ports - finished. Checking busy ports.  Found free port: 9094  Installing m2\_web\_console on port 9094 ...  Creinst output: [stdout] Application instance creator  Adding application 'm2\_web\_console' ...  Used ports (HTTP, Server, HTTPS (disabled), AJP): 9094, 9095, 9096, 9097  You can change Web Application Parameters by editing conf/config-web.properties configuration file  The application 'm2\_web\_console' has been successfully added.  WARN: The HTTPS configuration is skipped  Processing console with version 2.0.1101 from file /home/way4/appserver/temp/sysapps/console-2.0.1101.zip  Type: new installation  Installing console  Creinst output: [stdout] Application instance creator  Adding application 'console' ...  from web\_console is not required.  Apache 2.4 was not used before. Automatic apache configuration merge is disabled  WAY4 Application Server Installer/Upgrader finished  04/17/2020 10:37:55AM - Executing action ECF12D21-87BF-466F-A965-77CF49276DFF - Ask Launch Appserver  - Executing action 0664617C-BBE2-4F5A-939E-D54D9E288CD9 - Parse response launch appserver  - Executing action DC91D386-0388-494C-A080-81588CDA6443 - Execute Action  - Executing actions 967E45B4-25AC-4A54-9D15-B68C7B887443 - LaunchAppserverScript  - Executing action 967E45B4-25AC-4A54-9D15-B68C7B887443 - LaunchAppserverScript  - Executing action 65DA5C5E-0FC5-4E4C-A530-2906E00B6C65 - Output Install Complete Message  - Executing action EADFB476-ED72-4A5C-A3DF-00D07DCD1335 - Exit  - Executing actions FC281932-AAA3-4A35-AE3D-C624179B984E - Finish Actions  - Executing action 560E6166-F3E6-4D81-A590-C66B48FD1B73 - DebugOutput  - Storing version file /var/lib/installjammer/FFCF3DB8-168D-46A3-B589-F55351D66BC8/208F0B5C-EB18-E6C9-8805-A42D7DEE32F2.ver  - Version file created successfully. |

⚠ Note: if the application server is installed unsuccessfully, check the OWS\_JAVA\_HOME variable that is correctly point to jdk Java or not.