

ASF Apache/Tomcat Installation Prerequisites

- CentOS/RHEL 7/6 machines

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This document is to list the requirements for installation and use of the ASF Apache2.4/Tomcat8.5 installation for Verizon systems.

!Note - Please remember this is OpenSource software. There is no 3rd party support, or vendor to call!

User ID Requirements

The following use id's and group id need to exist on the system.

User id : jbapache

User id : jbtomcat

Group id : mdware

The webserver functional ID is only for use by the running webserver. It is not meant to be used interactively, and should be locked.

The SeOS/powerbroker security tool must be installed on the system, and the Middleware team's IDs created in order to provide support.

Required Linux RPM's

The following OS/system rpm's must be installed for the product to function, on RedHat 7:

krb5-workstation

mod_auth_kerb

elinks

mailcap

apr-devel

apr-util

apr-util-devel

apr-util-ldap
sharutils

If the 'tomcatjss' rpm is installed, it will need to be removed prior to install.

The following OS/system rpm's must be installed for the product to function, on RedHat 6:

krb5-workstation
elinks
mailcap
sharutils

If the 'tomcatjss' rpm is installed, it will need to be removed prior to install.

Shared Memory

Linux systems need to make sure and have the default shared memory settings increased.

The following parameters are a minimum

```
sysctl -w "kernel.sem=250 128000 32 512"
```

Supported JDK's

Tomcat and our healthcheck utility needs a working Java installation in order to function.

Tomcat 8.5 supports JDK 1.7.x and up

OpenJDK will be installed along with the product, if using our automation. It can also be installed manually via yum/repo.

File System Requirements (For NON-Cloud implementations)

/apps/opt/ASF-Apache 4 Gigs -- install directory (Non-Shared Disk) -- Owner is: jbapache:mdware

/apps/opt/var/ASF-Apache 4 Gigs -- Archive log directory.(Non-Shared Disk) Owner is: jbapache:mdware

Important Note : All Middleware needs to be on Private Storage
(all web and App server software i.e Weblogic and Apache)

If the product isn't installed into it's own file-systems, please make sure there's adequate space where it will reside.

Web server startup and shutdown

If you need to be able to start/stop the webserver, you will need to open request on pbportal for all the scripts in

/apps/opt/ASF-Apache/scripts/httpd

/apps/opt/ASF-Apache/scripts/tomcat

Please make sure to request to run our scripts as root.

<https://pbportal.vzwc corp.com>

ASF Apache scripts to request are:

ApacheAdmin.sh

ApacheCertDeploy.sh

ApacheCertQuery.sh

ApacheDomainBuilder.sh

ApacheGetRPMInfo.sh

ApacheHealthCheck.sh

ApacheImportSSI.sh

ApacheMaintMode.sh

ApachePingAll.sh

ApacheStartAllDomains.sh

ApacheStopAllDomains.sh

The Tomcat scripts are:

TomcatAdmin.sh

TomcatCertDeploy.sh

TomcatCertQuery.sh

TomcatClearCache.sh

TomcatDomainBuilder.sh

TomcatForceStop.sh

TomcatGetRPMInfo.sh

TomcatHealthCheck.sh

TomcatHeapStats.sh

TomcatImportSSI.sh

TomcatJVMinfo.sh

TomcatKeyManager.sh

TomcatMaintMode.sh

TomcatPingAll.sh

TomcatStartAllDomains.sh

TomcatStopAllDomains.sh

TomcatThreadDump.sh

Monitoring Requirements

Please inform OSA

Following link gives instructions: <http://patrolweb.verizon.com/AccessUseRFA.html>

ADVISE Requirements

The Middleware scripts use the following ADVISE features:

VZdirlnk

VZfixlog

If ADVISE is not installed on the system monitoring and log rotation will not work.

However the Middleware packages can be installed on the system if the following files/directories are created.

/etc/default/Loc_Env_Anchor should contain the Anchor (e.g. /apps)

/apps/etc/default

/apps/opt/var

/apps/etc/SSI

Document Root

The webserver configuration package will require installation of a healthcheck page, mdwarepage.html, and a standard

error page, mdreject.html, into the webserver's document root directory.

If the document root will exist outside of the /apps/opt/ASF-Apache filesystem, it must exist prior to the deployment

or the installation will fail.

For installations that include Single Sign-On (SSO), we also require that 3 URLs be 'unprotected' so our scripts may access them

\$WEBSERVER_URL/mdwarepage.html

\$WEBSERVER_URL/ASF-status

\$WEBSERVER_URL/mdreject.html

Cloud Installation

To use this product within a Cloud/AWS/CICD environment, please see our general documentation on deploying via playbook, post VM spinup and use in AMI's.

<https://oneconfluence.verizon.com/pages/viewpage.action?pageId=114135590>

Documentation

For detailed information about the Apache/Tomcat products, their configuration, and use.. the ASF documentation is

<https://httpd.apache.org/docs/2.4/>

<http://tomcat.apache.org/tomcat-8.5-doc/>

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