

# **AMI & Installation Guide**

Ver 1.3.0



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# 1. Playce WASup AMI Guide

## 1.1 Overview

This document provides the necessary guides for using Playce WASup with Playce WASup AMI.

This document is based on the Playce WASup 1.3.0 version.

## **1.2 Playce WASup Manager Instance Configuration**

Playce WASup AMI contains a ready-to-run Playce WASup Manager at the selected version. In order to use this image, you need to launch it with your selected type, and login via SSH to activate it.

#### 1.2.1 Launching a Playce WASup Manager Instance

In order to launch Playce WASup, a few settings need to be configured on the AWS console as follows.

The instructions for launching an instance differ depending on where you launch from. Initially you will launch the instance from the AWS Marketplace.

#### 1.2.2 Connect to Playce WASup Manager Instance

Playce WASup is shipped with a base binary installation.

On the first login to the instance – after logging onto the instance via SSH as the 'ec2-user' user you will see basic information about Playce WASup installation.

## 1.2.3 Run Playce WASup Manager

Follow below guidelines to run Manager.

- 1. Open browser and connect to <public\_ip:port> (Default: public\_ip:8080).
- 2. Type in User ID and Password, and click [Sign in] button.

(Use user id "admin" and password your <ec2\_instance\_id>)

3. Move to [Dashboard (Home)] menu after successfully logging in.



Check below Playce WASup screenshot.

Playce WASup Dashboard (Home).

٠	Dashboard						4	¢2 :
≫ ≣	Domain 4	Host	Applicat Server 6	ion 15	Web Server	Session Server	Session C	luster 4
20 2 2	Host Status	> 4 2	Alarm by Host	) 0 3	Top 5 Resource Usag	20 40	CPU Memory	: Disk 100
	Application Server Sta 15 • Running • Stopped • Unknown	atus > 12 0 m 3	Alarm by Application	0 2	Top 5 Heap Usage b watup app 07 watup app 04 watup app 12 watup app 12 watup app 12 0	y Application Server	60 80	: 100

Custom configuration file for Playce WASup - "/opt/WASUp/wasup-manager/bin/ setenv.sh"

```
Start Playce WASup Manager - "sudo systemctl start wasup"
Stop Playce WASup Manager - "sudo systemctl stop wasup"
```

# 2. Playce WASup Installation Guide

## 2.1 Overview

This document is provided to help the installation and operation and Playce WASup Manager. This document is based on the Playce WASup 1.3.0 version.

## 2.2 System Requirements

#### 2.2.1 Minimum Requirements

The minimum system requirements to install and operate Playce WASup are as follows:

JAVA SE	CPU	Memory	Disk	IP
Java SE 8 or Higher	Dual Core CPU	4.00 GB or Greater	5.00 GB or Greater	Static IP

## 2.2.2 Minimum System Requirements

Minimum system requirements to install Playce WASup for Manager, Agent and each Server types are as follows:

Class	JVM	Minimum Memory / Recommended Memory	Minimum Disk / Recommened Disk	OS
Manager	JRE 8 / 11	512MB / 2GB	1GB / 30GB	CentOS 7 / 8
Agent	JRE 8 / 11	256MB / 512MB	1GB / 10GB	CentOS 7 / 8
Web Server	N/A	256MB / 512MB	1GB / 10GB	CentOS 7 / 8
App Server	JRE 8 / 11	512MB / 1GB	1GB / 10GB	CentOS 7 / 8
Session Server	JRE 8 / 11	2GB / 2GB	1GB / 10GB	CentOS 7 / 8
Scouter Server	JRE 8 / 11	512MB / 1GB	1GB / 10GB	CentOS 7 / 8

## 2.3 Preparing to install Playce WASup

#### 2.3.1 Playce WASup Installation File

Playce WASup install file is provided in tar.gz and zip file format. After uploading to target installation server, extract it to installation home directory '\${WASup\_Home}'. The default installation path is '/opt/WASup/wasup-manger'. The Playce WASup installation file can be downloaded from the product homepage.

This installation guide manual is based on Linux (CentOS).

#### 2.3.2 Playce WASup Installation File

To install the downloaded WASup install file at a specific path, use the following commands:

```
# If the install file is 'wasup-manager.tar.gz'
]$ tar xf wasup-manager.tar.gz -C /opt/WASup/
# if the install file is 'wasup-manager.zip'
]$ unzip wasup-manager.zip -d /opt/WASup/
```

When tar or unzip package is not installed, run the following commands to install the package:

]\$ sudo yum install -y tar

]\$ sudo yum install -y unzip

## 2.3 Preparing to install Playce WASup

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This installation guide manual is based on Linux (CentOS).

## 2.3.2 Directories

The '\${WASup\_Home}' directory is structured as follows:

Directory	Description
/bin	<ul> <li>Contains WASup's Start/Stop and other functioning scripts</li> <li>Uses *.sh file in Linux</li> </ul>
/conf	• Basic file for the container and a directory where the most important server.xml files and configuration files are located
/logs	Log files are located
/weapps	Playce WASup manager web application is located
/repository	<ul> <li>Various files(agent, engine, template, etc.) required for Playce WASup are located</li> </ul>

#### 2.3.3 Playce WASup Preferences Setting

In order to set Playce WASup preferences, edit '/setenv.sh' file located '\${WASup\_Home}/bin'.

```
#!/bin/sh
         Configuraton for WASup manager
# Log file path
JAVA OPTS="$JAVA OPTS -DLOG PATH=$CATALINA HOME/logs/"
JAVA OPTS="$JAVA OPTS -
Dwasup.repository.path=$CATALINA HOME/webapps/ROOT/static/repository/"
# WASup manager's $IP:$PORT for websocket connection from wasup-agent (eg.
192.168.0.2:8080)
JAVA OPTS="$JAVA OPTS -Dwasup.manager.url="
# File encoding
JAVA OPTS="$JAVA OPTS -Dfile.encoding=UTF-8 -Dfile.client.encoding=UTF-8"
JAVA OPTS="$JAVA OPTS -Xms2048m -Xmx2048m -XX:MetaspaceSize=256m -
JAVA_OPTS = "$JAVA_OPTS -XX:+UseG1GC"
JAVA OPTS="$JAVA OPTS -XX:+UseLargePagesInMetaspace"
JAVA OPTS="$JAVA OPTS -XX:+ExplicitGCInvokesConcurrent"
JAVA_OPTS="$JAVA_OPTS -XX:+DisableExplicitGC"
JAVA_OPTS="$JAVA_OPTS -XX:ReservedCodeCacheSize=512m"
JAVA_OPTS="$JAVA_OPTS -XX:-UseCodeCacheFlushing"
JAVA_OPTS="$JAVA_OPTS -Djava.security.egd=file:/dev/urandom"
# If you want to change the Derby DB port, modify the
"wasup.derby.server.port" parameter.
# If you change the port, you have to set "spring.datasource.url"
parameter too.
  (eg. localhost:1527//home/bill/DerbyDb/wasupDB)
#JAVA OPTS="$JAVA OPTS -Dwasup.derby.server.port=1527"
#JAVA OPTS="$JAVA OPTS -
```

```
# Custom DB setting (Derby will be used as default)
#JAVA OPTS="$JAVA OPTS -
Dspring.datasource.url='jdbc:mysql://localhost:3306/wasup?useUnicode=true&
characterEncoding=UTF-8&serverTimezone=UTC'"
#JAVA OPTS="$JAVA OPTS -Dspring.datasource.driver-class-
#JAVA OPTS="$JAVA OPTS -
Dspring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Diale
#JAVA OPTS="$JAVA OPTS -Dspring.datasource.username=wasup"
#JAVA OPTS="$JAVA OPTS -Dspring.datasource.password=wasup"
# MariaDB
#JAVA OPTS="$JAVA OPTS -
Dspring.datasource.url='jdbc:mysql://localhost:3306/wasup?useUnicode=true&
characterEncoding=UTF-8&serverTimezone=UTC'"
#JAVA_OPTS="$JAVA_OPTS -Dspring.datasource.driver-class-
name=org.mariadb.jdbc.Driver"
#JAVA OPTS="$JAVA OPTS -
Dspring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL5InnoD
#JAVA OPTS="$JAVA OPTS -Dspring.datasource.username=wasup"
#JAVA OPTS="$JAVA OPTS -Dspring.datasource.password=wasup"
# PostgreSQL
#JAVA OPTS="$JAVA OPTS -
Dspring.datasource.url='jdbc:postgresql://localhost:5432/wasup'"
#JAVA_OPTS="$JAVA_OPTS -Dspring.datasource.driver-class-
name=org.postgresql.Driver"
#JAVA OPTS="$JAVA OPTS -
Dspring.jpa.properties.hibernate.dialect=org.hibernate.dialect.PostgreSQLD
#JAVA OPTS="$JAVA OPTS -Dspring.datasource.username=wasup"
#JAVA OPTS="$JAVA OPTS -Dspring.datasource.password=wasup"
       Default settings for WASup servers
JAVA OPTS="$JAVA OPTS -Dwasup.host.ssh.port=22"
# SSH account for new hosts (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.host.user.name=centos"
# Agent install path for new hosts (Optional, $USER HOME will be used as
JAVA OPTS="$JAVA OPTS -Dwasup.agent.install.path=/opt/wasup/agent"
```

```
# Engineinstall path for new engines (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.engine.install.path=/opt/wasup/engines/"
# Server install path for new server (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.server.install.path=/opt/wasup/servers/"
# Java Home for new server (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.java.home=/usr/lib/jvm/java-1.8.0"
# Default Run Username for new server (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.run.user=centos"
# Java options for new application server (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.app.server.java.options='-Xms1024m -Xmx1024m
# Document root for new web server (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.web.server.document.root="
# Java Options for new session server (Optional)
JAVA OPTS="$JAVA OPTS -Dwasup.session.server.java.options='-Xms2048m -
       Notification settings for Slack, Email, Telegram
# Notification level for when the server status chage to 'Running' or
'Stopped' (Running : INFO, Stopped : WARNING will be used as default)
JAVA OPTS="$JAVA OPTS -Dwasup.notification.status.running.level=INFO"
JAVA OPTS="$JAVA OPTS -Dwasup.notification.status.stopped.level=WARNING"
# Minimum notification level to receive notification messages
JAVA OPTS="$JAVA OPTS -Dwasup.notification.send.level=INFO"
# Enable or disable Slack notifications (False will be used as default)
JAVA OPTS="$JAVA OPTS -Dwasup.notification.slack.enabled=false"
# Slack notification WebHook URL
e.g) https://hooks.slack.com/services/T02XXXX/B159XXXXX/W5CDXXXXXXXXXXXXXXXX
JAVA OPTS="$JAVA OPTS -Dwasup.notification.slack.webhook.url="
# Slack noitfication channel name
JAVA OPTS="$JAVA OPTS -Dwasup.notification.slack.channel="
# Slack noitfication bot name
JAVA OPTS="$JAVA OPTS -Dwasup.notification.slack.botName="
```

```
# Slack noitfication emoji
JAVA OPTS="$JAVA OPTS -Dwasup.notification.slack.icon.imoji="
# Slack noitfication icon URL
JAVA OPTS="$JAVA OPTS -Dwasup.notification.slack.icon.url="
# Enable or disable email notifications (False will be used as default)
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.enabled=false"
# Email notification smtp hostname (smtp.gmail.com will be used as
JAVA OPTS="$JAVA OPTS -
# Smtp port for email notification (587 will be used as default)
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.smtp.port=587"
# Enable or disable smtp authentication (True will be used as default)
JAVA_OPTS="$JAVA_OPTS -Dwasup.notification.email.smtpauth.enabled=true"
# Sender email address
e.g) noreply@example.com
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.username=""
# Sender email account password
e.g) password
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.password=""
# Enable or disable email SSL (True will be used as default)
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.ssl.enabled=true"
# Enable or disable email start TLS (True will be used as default)
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.starttls.enabled=true"
# Sender email address
e.g) noreply@google.com
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.from.address="
# Recipient email address(es)
e.g) single : receiver1@example.com / Multiple :
receiver1@example.com,receiver2@example.com
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.to.address="
e.g) single : receiver1@example.com / Multiple :
receiver1@example.com,receiver2@example.com
JAVA OPTS="$JAVA OPTS -Dwasup.notification.email.cc.address="
```

```
# Enable or disable Telegram notifications (False will be used as default)
JAVA_OPTS="$JAVA_OPTS -Dwasup.notification.telegram.enabled=false"
# Telegram notification bot token
e.g) 0000000000:XXXXXwxXpaXYx6jq7ea9Tyf9-XXXXXXXXX
JAVA_OPTS="$JAVA_OPTS -Dwasup.notification.telegram.bot.token="
# Telegram notification chat id
e.g) 000000000
JAVA_OPTS="$JAVA_OPTS -Dwasup.notification.telegram.chat.id="
```

#### 1) Connecting WASup to MySQL or MariaDB

#### **Create Database and User**

- Create a database user which WASup Manager will connect as (e.g. wasup).
- Create a database for WASup Manager to store data in (e.g. wasupdb).

```
# To install Java 1.8
]$ sudo yum install -y java-1.8.0-openjdk
# To install Java 11
]$ sudo yum install -y java-11-openjdk
```

Tested in MySQL 5.7.30 and MariaDB 5.5.64.

#### 2) Connecting WASup to PostgreSQL

If you are connecting to a remote PostgreSQL server, you will need to configure your data/postgresql.conf and data/pg\_hba.conf files to accept remote TCP connections from your WASup Manager's IP address.

#### Create User

Create a database user (login role) which WASup Manager will connect as (e.g. wasup). Choose one of the below two methods.

```
]$ sudo -i -u postgres psql
postgres=# CREATE USER wasup WITH ENCRYPTED PASSWORD '<PASSWORD>';
```

]\$ sudo su - postgres

```
-bash-4.2$ createuser --interactive --pwprompt
Enter name of role to add: wasup
Enter password for new role: <PASSWORD>
Enter it again: <PASSWORD>
Shall the new role be a superuser? (y/n) y
```

#### Create Database

Create a database for WASup Manager to store data in (e.g. wasupdb). Choose one of the below two methods.

```
]$ sudo -i -u postgres psql
postgres=# CREATE DATABASE wasupdb OWNER wasup ENCODING 'UTF-8';
```

]\$ sudo su - postgres

-bash-4.2\$ createdb wasupdb -O wasup --encoding='utf-8'

Tested in PostgreSQL 9.2.24.

## 2.4 Run Manager

To install the downloaded WASup install file at a specific path, use the following commands:

```
# To install Java 1.8
]$ sudo yum install -y java-1.8.0-openjdk
# To install Java 11
]$ sudo yum install -y java-11-openjdk
```

Follow below guidelines to run Manager.

- 1. Access directory '\${WASup\_Home}/bin'.
- 2. Depending on the system, run 'startup.sh'.
- 3. On browser, access 'http://\$IP:\$PORT' and check below screenshot.

Welcome to Playce W/AS <sup>up</sup> Playce WASup is the most cost-effective next generation WAS solution.	Sign in	
	Sign in	

4. Type in USER ID and Password and click [Sign in] button. (Default login : admin / admin )

5. Move to [Dashboard (Home)] menu after successfully logging in.

If the system does not have access to the browser even though the firewall is enabled, run the following commands to allow 8080 port access:

]\$ sudo firewall-cmd --add-port=8080/tcp --permanent

]\$ sudo firewall-cmd --add-port=8080/tcp