|  |
| --- |
| **OC Pizza Company**  **Information Management System**  Program Roll Out Procedure  Version 1.0 |
| **Author**  Scott Bolin  *Engineer* |

Table of contents

1 -Versions 4

2 -Introduction 5

2.1 -Document purpose 5

2.2 -References 5

3 -Pre-requisites 6

3.1 -System 6

3.1.1 -Database Server 6

3.1.1.1 -Technical specifications 6

3.1.2 -Web server 6

3.1.2.1 -Technical specifications 6

3.1.3 -Batch Server 6

3.1.4 -File Server 6

3.2 -Databases 6

3.3 -Web services 6

3.4 -Other Resources 6

4 -Rollout procedure 7

4.1 -Batch Deployment 7

4.1.1 -Artifacts 7

4.1.2 -Environment variables 7

4.1.3 -Configuration 7

4.1.3.1 - Xxx.yyy file 8

4.1.3.2 - Zzz.ttt file 8

4.1.3.3 -File ... 8

4.1.4 -Resources 8

4.1.5 -Verifications 8

4.2 -Web Application rollout 9

4.2.1 -Artifacts 9

4.2.2 -Web application environment 9

4.2.2.1 -Environment variables 9

4.2.3 -Application configuration repository 9

4.2.3.1 - Xxx.yyy file 9

4.2.4 -Datasources 9

4.2.5 -Resources 10

4.2.6 -Verifications 10

5 -Start up/shutdown procedures 11

5.1 -Database 11

5.2 -Batches 11

5.3 -Web application 11

6 -Update procedure 12

6.1 -Database 12

6.2 -Batches 12

6.3 -Web application 12

7 -Supervision/Monitoring 13

7.1 -Supervision of the web application 13

8 -Back-up and restore procedure 14

9 -Glossary 15

# Versions

|  |  |  |  |
| --- | --- | --- | --- |
| Author | Date | Description | Version |
| SB | 15/09/2020 | Creation of document | 1.00 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Introduction

## Document purpose

This document details the program roll out procedure for the OC Pizza Company Information Management System application.

The main objective is to detail the roll out procedures used in the start-up of the OC Pizza Company IMS back end database

## References

For further information, please refer to:

1. **TF - 1**: Technical file for the application

# Prerequisites

## System

### Database Server

Database server hosting MySQL v8 database schema/base(s)

#### Technical specifications

For the online database, any modern (within last 2 year) computer running relatively recent version of FreeBSD, Linux, MacOS, or Windows OS can be used as a server hosting MySQL. An iPhone or iPad is needed to run the mobile OS App. Alternatively, and Android phone can be used with the web interface.

### Web Server

Physical or virtual server hosting the web application running most recent Apache HTTP Server.

#### Technical specifications

Same specifications as the database server.

### Batch Server

Not used

### File Server

Not used

## Databases

The following databases and schema must be accessible and up to date:

* **MySQL** version XXX

## Web services

The following web services must accessible et up to date:

* REST services are used, which are automatically incorporated in the above Database/Web server systems.

## Other Resources

No other resources are used/needed.

# Roll-out procedure

## Batch Roll-out

### Artifacts

The Xxx application batches are built as a ZIP archive containing the following folders:

* **bin**: the SH scripts for running the various batches
* **conf**: configuration files
* **...**: ...

Unzip the **XXX.zip** archive in folder:

**/xxx/yyy**

Allow exploitation rights on the batch run SH scripts.

….

### Environment variable

These are the environment variables recognized by the XXX application batches

|  |  |  |
| --- | --- | --- |
| Name | Obligatory | Description |
| XXX\_HOME | no | Root directory for the installation of the application |
|  |  |  |

Set the necessary environment variables as follows:

...

### Configuration

These are the various configuration folders:

* **xxx.yyy**: log configuration folder
* **zzz.ttt**: application configuration folder
* **aaa**: XXX resource configuration folder
* ...

#### Xxx.yyy folder

…

#### Zzz.ttt folder

...

#### Folder...

### Resources

...

### Verifications

In order to check that the batches are running correctly, follow these steps:

## Roll-out of Web Application

### Artifacts

...

### Web application environment

#### Environment variables

The JOnAS application server must be executed with the following environment variable set at start up. This is necessary in order to retrieve the directory that contains the application configuration folders:

**-Dcom.ocpizza.apps.conf=$home\_application\_conf\_directory**

INFO: there must not be a “ / “ at the end of the variable value and no spaces must be used in the path.

### Application configuration directory

The application configuration directory must be created in the folder system and set as follows:

**$home\_application\_conf\_directory/applicationX**

… configuration folders…:

* ...

#### Xxx.yyy folder

...

### Datasources

Accesses to the databases must be configured with folders…

The **postgresql (postgresql-9.2.x.)** driver folder must be deposited in the directory:

**$home\_server/lib/ext**

...

### Resources

...

### Verifications

In order to check that the application roll-out is correct, follow these steps:

# Start/Shutdown procedure

## Database

## Batches

## Web application

# Update procedure

## Database

## Batches

## Web application

# Supervision/Monitoring

## Web application supervision

In order to test that the web application is still functional, follow these steps:

# Backup and restore procedure

# Glossary

|  |  |
| --- | --- |
|  |  |
|  |  |