**Information**

| | |
|---|---|
| Name: | Sock Shop |
| Description: | A socks-selling e-commerce demo application. |
| Version: | |
| Date Created: | 2021-05-21T11:39:56.767 |
| Git Commit: | |
| Git Tag: | |
| Git URL: | |
| OpenShift Cluster API URL: | |
| Created by Jenkins Job Name: | |
| Created by Jenkins Build Number: | |

# Technical Installation Plan for 'Sock Shop'

## TABLE OF CONTENTS

# 1    INTRODUCTION

This document describes the installation of the software-defined components *demo-app-carts, demo-app-catalogue, demo-app-front-end and demo-app-tests*. The installation is based on the documented installation process for applications/components running on *BI-IT-DEVSTACK*.

| Printed Name of Installer(s) | |
|---|---|
| **Printed Name** | **Initials** |
| *N/A*. Fully automated by *BI-IT-DEVSTACK*, no user interaction. | *N/A*. Fully automated by *BI-IT-DEVSTACK*, no user interaction. |

| References | | | |
|---|---|---|---|
| **Document ID** | **Name** | **Version** | **Location** |
| See *QSR* of *BI-IT-DEVSTACK* | Qualification Summary Report (Infrastructure) | Current Version | ITEMS |

## 2    DOCUMENTATION INSTRUCTIONS

The following instructions are generated based on components configured to be deployed for the application (Project: Sock Shop) - Config Item: ).

The configuration of this component list is stored version controlled within the BitBucket (*BI-AS-ATLASSIAN*) project named **OFI1805**.

# 3 INSTALLATION PREREQUISITES

1 Component repository is a *GIT* managed repository on validated *BI-AS-ATLASSIAN*.
2 Component inside a *GIT* repository is of type *ods*. The foundation of those components, named *Boilerplates* are qualified through the qualification of OpenDevStack (*ODS*, *BI-IT-DEVSTACK*) itself.
3 Component *GIT* repository contains a Jenkins file (Jenkinsfile), which is used for building, testing and installation through the OpenDevStack Jenkins build engine.
4 Jenkins build engine, based on OpenDevStack, is qualified, available and running.
5 Nexus artifact repository, based on OpenDevStack, is qualified, available and running.
6 Target environment infrastructure is qualified (for GxP relevant systems) and available.

## 3.1 COMPONENTS SPECIFICATION

The installation comprises the following software-defined components:

| Software Module Name/ID | Manufacturer | Software Version / Language | ID of Component to be installed | Reference to System and Software Design Specifications |
|---|---|---|---|---|
| demo-app-carts | N/A | branch , the actual commit is specified as parameter during installation | BI-AS-ATLASSIAN / Project: Sock Shop // repo: demo-app-carts | / null / 2-WIP System and Software Design Specification |
| demo-app-catalogue | N/A | branch , the actual commit is specified as parameter during installation | BI-AS-ATLASSIAN / Project: Sock Shop // repo: demo-app-catalogue | / null / 2-WIP System and Software Design Specification |
| demo-app-front-end | N/A | branch , the actual commit is specified as parameter during installation | BI-AS-ATLASSIAN / Project: Sock Shop // repo: demo-app-front-end | / null / 2-WIP System and Software Design Specification |
| demo-app-tests | N/A | branch , the actual commit is specified as parameter during installation | BI-AS-ATLASSIAN / Project: Sock Shop // repo: demo-app-tests | / null / 2-WIP System and Software Design Specification |

## 3.2 VERIFICATION OF DELIVERY

*N/A*. There is no shipment of hardware or software. The proper functionality of installed components is verified during verification phase of this installation.

In order for the entire installation to proceed, the mentioned pre-requisites are mandatory, and if not met, the installation will fail. E.g., in case Jenkins is NOT available, the automated installation will not start.

## 3.3 INSTALLATION SPECIFICATION

| Parameters | |
|---|---|
| **Parameter** | **Value** |
| Git Commit Component *demo-app-carts* | |
| Git Repo Component *demo-app-carts* | |
| Git Commit Component *demo-app-catalogue* | |
| Git Repo Component *demo-app-catalogue* | |
| Git Commit Component *demo-app-front-end* | |
| Git Repo Component *demo-app-front-end* | |
| Git Commit Component *demo-app-tests* | |
| Git Repo Component *demo-app-tests* | |
| Change id/number | |
| Change description | |
| Version | WIP |
| Config Item | |

## 3.4 COMMUNICATION AND ORGANIZATION TASKS

N/A

## 3.5 BACK OUT PLAN

In case the installation of the component fails, the component will be rolled back to its previous working version. This is a standard feature of the underlying qualified platform.

# 4 ENVIRONMENTAL CONDITIONS

The system is running on a qualified infrastructure and the infrastructure qualification will be checked during the CIT.

# 5    INSTALLATION INSTRUCTIONS

The installation instructions are contained within the *GIT* repository's Jenkinsfile(s), whose are version controlled. These files are called from Jenkins (*BI-IT-DEVSTACK*) to build the entire application, including all its components. Each Jenkinsfile contains all required steps to perform the installation of a given component.

On the development environment(s) - the Jenkinsfile is used to build, install and test the applications, comprised of multiple components. For the installation of the application on the Quality / Production environment, there is NO build phase. Instead, the images that were built on the development environment as well as surrounding configuration, are imported into the target Q&P environments, to ensure no contamination with intermediate changes to the codebase.

The location of the running Jenkins instance depends on the environment the application is built on or only deployed to, and will be mentioned in the Technical Installation Report (*TIR*).

# 6 DIAGNOSTICS AND TESTING

Each component comes with individual installation tests. For details look in the Technical Installation Report.

## COMPONENT DEMO-APP-CARTS

| Step | Instruction for Testing | Expected Result | Actual Result | Pass / Fail |
|------|-------------------------|-----------------|---------------|-------------|
| 1 | Component has been deployed and individual installation tests ran. | Component has been successfully deployed. All installation tests ran successfully. | N/A | N/A |

## COMPONENT DEMO-APP-CATALOGUE

| Step | Instruction for Testing | Expected Result | Actual Result | Pass / Fail |
|------|-------------------------|-----------------|---------------|-------------|
| 1 | Component has been deployed and individual installation tests ran. | Component has been successfully deployed. All installation tests ran successfully. | N/A | N/A |

## COMPONENT DEMO-APP-FRONT-END

| Step | Instruction for Testing | Expected Result | Actual Result | Pass / Fail |
|------|-------------------------|-----------------|---------------|-------------|
| 1 | Component has been deployed and individual installation tests ran. | Component has been successfully deployed. All installation tests ran successfully. | N/A | N/A |

## COMPONENT DEMO-APP-TESTS

| Step | Instruction for Testing | Expected Result | Actual Result | Pass / Fail |
|------|------------------------|-----------------|---------------|-------------|
| 1 | Component has been deployed and individual installation tests ran. | Component has been successfully deployed. All installation tests ran successfully. | N/A | N/A |

# 7    POST INSTALLATION TASKS

No manual post installation steps. All installation tasks are contained within the automated installation.

# 8 DEVIATIONS AND FAILURES

In case of installation failures, no Technical Installation Report (*TIR*) will be generated, as the Jenkins run will fail!

## 9    CONCLUSION STATEMENT

Will be created based on the actual installation results, and noted in the corresponding Technical Installation Report (*TIR*).

## 10 DEFINITIONS AND ABBREVIATIONS

### 10.1 DEFINITIONS

| Term | Definition |
| --- | --- |
| Jenkins | Build engine supplied by cloudbees - part of OpenDevStack (BI-IT-DEVSTACK) |
| xUnit | Unit testing framework, aggregaults across multiple languages |

### 10.2 ABBREVIATIONS

| Abbreviation | Meaning |
| --- | --- |
| ODS | OpenDevStack |
| EDP | Enterprise Development Platform |

## 11    REFERENCE DOCUMENTS

- System and Software Design Specification (version null / 2-WIP)

## 12    DOCUMENT HISTORY

| Version | Date | Author | Change Reference |
|---------|------|--------|------------------|
| 1 | See Summary of electronic document or signature page of printout. | | Initial document version. |

The following table provides extra history of the document.

| Version | Date | Author | Reference |
|---------|------|--------|-----------|
| | See summary of electronic document or signature page of printout. | | |