Wonsole

The new web console for power users

Administrator Manual

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Chapter 1

Introduction

This document describes deployment and testing process of Wonsole application. All other information about this software are available in detailed project report.

Chapter 2

Required software

Some software is required to run the Wonsole.

2.1   Web Server

The client part is a web-application that is server by a web server. Any web server that can serve static files can fulfill this role. In our instalation, we will use Apache web server.

2.2   Web Browser

The user needs a generic web browser to view the files and run the scripts. Any browser that supports javascript should work. For example refer to Mozilla Firefox [1] or Google Chrome [2]. System has been tested with Mozilla Firefox 16.0 and Google Chrome 23.0.

2.3   CouchDB

The backend server part is represented by CouchDB database system. No other server software is required, client connects directly to the database system. The system is tested to work with Apache CouchDB version 1.0.3 and 1.2. It should work with any version supporting the Bulk Documents API [3].

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[1] http://www.mozilla.org/en-US/firefox
[2] https://www.google.com/chrome
[3] http://wiki.apache.org/couchdb/HTTP_Bulk_Document_API

Chapter 3

Instalation and configuration

This chapter describes instalation and configuration of the tools required to run this software. As long as you can install all the required software, choice of the system is up to you. The reference and only supported system by this manual is be Red Hat Enterprise Linux 6.3.

3.1 CouchDB

Easiest way to install Apache CouchDB is to enable the EPEL - Extra Packages for Enterprise Linux repository. For more information on how to do that please refer to the official guide available on http://fedoraproject.org/wiki/EPEL. After setup of the repository, couchdb package should be available for install. Install this package with all the dependencies.

```
yum install couchdb
```

After instalation, we should setup the CouchDB. The default setup file location is file:///etc/couchdb/local.ini. We will be using CouchDB directly as a backend, without a server middleware so we need to set it up to listen on publicly accesible interface and port. The interface bind address can set using variable $bind_address$, universal choice is to set it up as 0.0.0.0 so that the database listens on all available interfaces. The other interesting option is the port, that can be set up using the port variable. CouchDB needs to be available from client side over the network, so choose an interface and port combination, that is allowed on your firewall.

```
port = 5984
bind_address = 0.0.0.0
```

After configuration, start the couchdb service with command

```
service couchdb start
```

You can verify if the service is running using:

```
service couchdb status
```

You should get the feedback similar to

```
couchdb (pid  29915) is running...
```

3.2 Web Server

As a reference web server for this instalation, we will use Apache 2.2.15. It can be installed using command

```
yum install httpd
```

By default, the web server is configured to use the directory /var/www/html/ as a root for serving the necessary files. Copy all of the files from folder www from the instalation package to folder /var/www/html on your web server. The web server service httpd can be started using command:

```
service httpd start
```

Chapter 4

Appendices

4.1 Instalation package contents

```
wonsole-2.0/
  www/
    css/
    script/
    wonsole.html
  doc
```