

VIRTUAL CM SERVER

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CONTENTS

Contents

Contents.....	2
Introduction	3
CM Appliance	4
Description	4
Media	4
Installation	4
CM Appliance Usage	5
Update DNS	5
Technical Data	7
Versions and Paths.....	7

INTRODUCTION

This is the user guide for the CM Appliance produced by CM Services Limited.

This document contains a detailed description of the configuration of the appliance and also how to use it.

CM APPLIANCE

Description

The CM Appliance is a VMware Linux virtual machine onto which we have installed the following key configuration management tools:

- Subversion – leading version control tool.
- Maven – leading build and release management tool.
- Artifactory – leading library management tool.
- Hudson – leading continuous integration tool.
- Jira – leading project issue, defect and change management tool.

With the exception of Jira all the tools above are free open source tools. Jira is a commercial product and therefore we have installed a 10 user commercial license.

Media

The CM appliance is provided as a bundle of VMware files on a DVD. Alternatively you can download the appliance from our web site.

Installation

You must have one of the following VMware products to use the CM Appliance:

- VMware Workstation 6.5 or later.
- VMware Fusion (MAC) 2.0 or later.
- VMware Server 2.0 or later (this is a free VMware product).
- VMware Player (this is a free VMware download).
- Any of the current VMware Data center products.

You can install VMware on a Windows desktop or server. Alternatively if you are using VMware Fusion then you should use an Apple Mac.

Once you have installed the VMware product on your PC you can install the CM appliance as follows:

1. Copy the files from the DVD to your PC.
2. Start VMware.
3. Open the CM Appliance virtual machine.
4. Start the virtual machine.

The CM Appliance is ready to use as soon as the virtual machine has started.

CM Appliance Usage

You can use the CM Appliance as a standalone desktop system or you can use it as a server.

If you use the Appliance as a standalone desktop machine then you can use the applications by physically logging onto the virtual machine and using the installed applications.

If you use the Appliance as a server then you need to do the following:

1. Install Maven on your PC.
2. Install Subversion on your PC.
3. Update your DNS to include the virtual machine name.

You do not need to install Hudson, Artifactory, or Jira on your PC as these are all web based applications and you will be able to access them from your PC once you have updated your DNS.

UPDATE DNS

The host name used for Linux used in the CM Appliance is “configman”.

The CM Appliance will be assigned an IP address by your networks DHCP server. When the CM Appliance starts it will connect to your network using the PCs network card and will then look for a DHCP server. If one is found then the CM Appliance will request an IP address from the DHCP server. You need to find the IP address of the CM Appliance if you wish to use the Appliance as a server.

To find the IP address of the CM Appliance you need to do the following:

1. Start the CM Appliance.
2. Log on using user name and password of “configman” and “password”.
3. Start a terminal session.
4. Type ifconfig.

The IP address is the same as the Inet Address.

```
configman@configman:~$ ifconfig
```

```
eth0      Link encap:Ethernet  HWaddr 00:0c:29:59:ae:02
```

```
          inet addr:192.168.168.131  Bcast:192.168.168.255  
          Mask:255.255.255.0
```

```
          inet6 addr: fe80::20c:29ff:fe59:ae02/64 Scope:Link
```

```
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
```

RX packets:2670 errors:0 dropped:0 overruns:0 frame:0
TX packets:2142 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:2402297 (2.4 MB) TX bytes:379936 (379.9 KB)
Interrupt:18 Base address:0x1400

lo Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:67914 errors:0 dropped:0 overruns:0 frame:0
TX packets:67914 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:6589447 (6.5 MB) TX bytes:6589447 (6.5 MB)

You can access the applications on the CM Appliance using the IP address or you can ask your network administrator to add the address to the firms DNS and then you can use the configman host name instead of using the IP address.

Note: The IP address assigned to your CM Appliance may change from time to time. Therefore you may need to repeat the above process if and when the IP address changes. If this happens too frequently then you should ask your network administrator to allocate a static address to the CM Appliance.

TECHNICAL DATA

Versions and Paths

This section contains some important technical data about this CM Appliance. You may need this data when you use and administer the CM Appliance.

Linux Host Name: configman

Administrator name: configman

Administrator password: password

Root password: password

Hudson URL: <http://configman:8080>

Artifactory URL: <http://configman:8081>

Jira URL: <http://configman:8082>

Svn URL: svn://configman

Admin user for all the above: configman

Password for Admin user for all the above: password

Maven version: 2.2.1

Subversion version: 1.66

Hudson version: 1.3.99

Artifactory version: 2.1.3

Sun Java SDK: 1.6.0_1.17

Installation folder for all the above is /Apps.

Subversion repository path: /Apps/svn

Artifact repository path: /Apps/artifactory/data

Log folder for all the above is /var/logs.

Subversion password file: /home/configman/svn/conf/passwd.

Subversion maven settings file: /home/configman/.m2/settings.xml