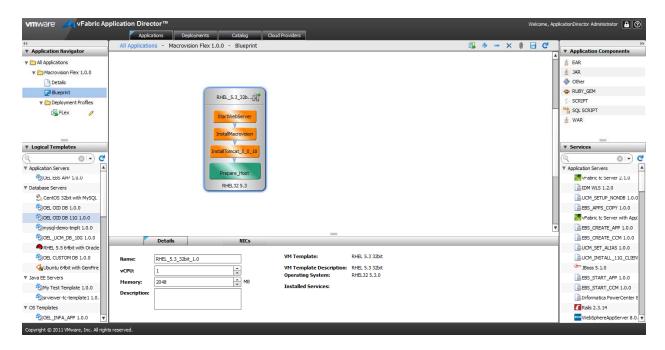
MacroVision FLEXIm - Blueprint Information

1. OVERVIEW

The purpose of this document is to describe the MacroVision FLEXIm blueprint in detail. The goal of the blueprint is to allow for provisioning and configuration of a MacroVision FLEXIm instance in an automated and repeatable fashion.

The following components and versions are installed as part of the MacroVision FLEXIm instance:

- (1) MacroVision FLEXIm 6.1
- (2) Tomcat 5.0.18



2. HIGH LEVEL BLUEPRINT DESIGN

Conceptually, the blueprint design consists of the tasks described below. These tasks are listed in chronological order:

- (1) Prepare Host
- (2) Install Tomcat 5.0.18
- (3) Install MacroVision FLEXIm 1.6
- (4) Start Webserver

2.1 Files

You will need access to create the following file repository that contains the necessary installers and configuration files needed. We will refer to this repository as the Dropbox Home in this document.

\$DROPBOX_HOME/Macrovision:

FlexIm Installation files

\$DROPBOX_HOME/Macrovision_FlexWS:

Gtlweb, cust-fulfill.war, cust-integration.war

 ${\tt \$DROPBOX_HOME/jakarta-tomcat:}$

jakarta-tomcat-5.0.18.tar.gz

2.2 Prepare OS Properties

The Prepare OS task sets the hostname for the machine that's provisioned. The following properties govern the execution of the blueprint:

Details Properties Actions				
Name	Description	Туре		
HOST_NAME_PATTERN	Pattern to use for the hostname, for e.g., ora-%e-osb-a%c, where %e will be expanded to the environment name and %c will be expanded to t	String		
ENV_NAME		String		
IP_ADDRESS	The IP_ADDRESS parameter must be set at the Blueprint level to the ip address of the node (self:ip)	String		
DOMAIN_NAME	Domain name	String		
HOST_NAME		String		
env_util		Conten		
NODE_ARRAY	IF it's a multi-node cluster, then please set this value to the array of cluster nodes, i.e. all(node_array_index). Otherwise, leave it empty.	Array		
NODE_ARRAY_INDEX	Please set this variable to the node array index if it's a multi-node cluster (self:node_array_index). If it's not a multi-node cluster, then leave it a	String		
MOUNT_OPTIONS1	Options if any for the /etc/fstab entry, for e.g., noauto	String		
MOUNT_DIR1	Local directory to which to mount, for e.g., /oracle/shared	String		
MOUNT_PATH1	Path of remote filesystem to mount, for e.g. wdc-ns120-m1:/oracle/shared	String		

Actions:

Details	Properties	Actions	
Lifecycle Stage	Script Type	Script	
INSTALL	Bash Script	#!/bin/bash	30
CONFIGURE	Bash Script		×
START	Bash Script		×

```
Install Script:
#!/bin/bash
# Set path variables
export PATH=$PATH:/opt/java/jdk1.6.0_19/bin:/usr/java/default/bin:/usr/java/jdk1.6.0_29/bin
# Get cluster number. If we are in a cluster, then get the cluster index value.
# Otherwise, use 1 for non-cluster environments
if [ ${#NODE_ARRAY[@]} -gt 1 ]; then
       CNUMBER=`expr $NODE_ARRAY_INDEX + 1`
else
       CNUMBER=1
fi;
# Set hostname variable
HOST_NAME=`echo $HOST_NAME_PATTERN | sed "s/%e/$ENV_NAME/g" | sed "s/%c/$CNUMBER/g"`
echo "Setting hostname to $HOST_NAME.$DOMAIN_NAME"
# Change VM hostname
hostname $HOST_NAME
# Replace hostname in /etc/hosts
sed -i.bak "s/$IP_ADDRESS.*/$IP_ADDRESS $HOST_NAME.$DOMAIN_NAME $HOST_NAME/g" /etc/hosts
sed -i.bak "s/HOSTNAME=.*/HOSTNAME=$HOST_NAME.$DOMAIN_NAME/g" /etc/sysconfig/network
# set HOST_NAME INCLUDING DOMAIN
HOST_NAME="$HOST_NAME"."$DOMAIN_NAME"
# Perform mount commands, if specified.
if [ -n "$MOUNT_PATH1" -a -n "$MOUNT_DIR1" ]; then
 echo "Mounting $MOUNT_PATH1 to $MOUNT_DIR1 with options $MOUNT_OPTIONS1"
```

```
test -d "$MOUNT_DIR1" || mkdir -p $MOUNT_DIR1

test -z "$MOUNT_OPTIONS1" && MOUNT_OPTIONS1="defaults"

mount -o $MOUNT_OPTIONS1 $MOUNT_PATH1 $MOUNT_DIR1

if [ $? -eq 0 ]; then

echo "$MOUNT_PATH1 $MOUNT_DIR1 nfs $MOUNT_OPTIONS1 1 2" >> /etc/fstab

else
exit $?

fi;
```

2.3 Install Tomcat

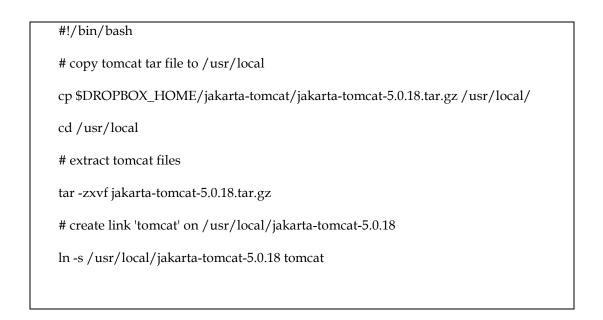
The Install Tomcat task installs Tomcat 5.0.18 on the machine. It's governed by the following properties:



Actions:

Details	Properties	Actions		
Lifecycle Stage	Script Type		Script	
INSTALL	Bash Script		#!/bin/bash	×
CONFIGURE	Bash Script		#!/bin/bash	×
START	Bash Script			×

Install Script:



Configure Script:

```
#!/bin/bash

# copy Custom server.xml to tomcat/conf

/bin/cp -rf $DROPBOX_HOME/jakarta-tomcat/custom_conf/*
/usr/local/tomcat/conf/

#Modify the bash profile root user

echo "export JAVA_HOME=/usr/java/jdk1.6.0_32" >> ~/.bash_profile

echo "export CATALINA_HOME=/usr/local/tomcat" >> ~/.bash_profile
```

2.4 Install Macrovision FLEXIm 6.1

The Install Macrovision task installs Macrovision FLEXLm 6.1 on the machine. It's governed by the following properties:



Actions:

Actions.					
Details	Properties	Actions			
Lifecycle Stage	Script Type	5	ript		
INSTALL	Bash Script	#	/bin/bash	×	
CONFIGURE	Bash Script			×	
START	Bash Script			×	

Install Script:

```
#!/bin/bash

# create user & group for fnpom

/usr/sbin/groupadd fnpom

/usr/sbin/useradd fnpom -d /opt/fnpom -g fnpom

cp -r $DROPBOX_HOME/Macrovision/ /opt/fnpom/

# change owner & group of installed Macrovision files

cd /opt

chown -R fnpom:fnpom fnpom/

# install Custom web applications created for Macrovision Flex

cp -r $DROPBOX_HOME/Macrovision_FlexWS/* /usr/local/tomcat/webapps/
```

2.5 Start WebServer

The Start Webserver task starts tomcat webserver on the machine. It's governed by the following Action:



Start Script:

```
#!/bin/bash

#Start the Tomcat Services

cd /usr/local/tomcat/bin

./startup.sh &
```