**VASLinux定制化OS**

**Ver. 1.05**

**2014-11-7**

**版本历史**

|  |  |  |  |
| --- | --- | --- | --- |
| **版本** | **修改日期** | **修改者** | **内容** |
| 1.00 | 2014-9-4 | 韩一敏 |  |
| 1.01 | 2014-9-26 | 吴奎 | 更新SunrunVAS-spice, SunrunVAS-rdp部分内容 |
| 1.02 | 2014-9-28 | 韩一敏 |  |
| 1.03 | 2014-10-9 | 洪群 | 加入2.2.10部分，修改了2.2.3部分 |
| 1.04 | 2014-10-20 | 陈昭宇 | 加入SunrunVAS-ha包 |
| 1.05 | 2014-11-7 | 韩一敏 | 加入制作SunrunVASInstaller安装包章节 |

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# 环境准备

|  |
| --- |
| # yum install createrepoanaconda |

# SunrunOS定制流程

* 创建一个新的目录用来保存新的光盘的文件
* 挂载CD1，CD2及更新光盘(<http://mirror.centos.org/centos/6.5/updates/x86_64/Packages/>)
* 将所有光盘里的Package的内容合并到新的目录Package下
* 将新的目录下Package的rpm去重，只保留最新版本的rpm包，并去掉kde及libreoffice相关的包，为了节省空间
* 删除所有目录下的TRANS.TBL文件

|  |
| --- |
| # cd {新的光盘目录}  # find .–name TRANS.TBL –exec rm–f {} \; -print |

* 使用脚本重新生成repo文件

|  |
| --- |
| # SunrunOSBuilder/generaterepo.sh {光盘源文件目录} |

* 准备Kickstart配置文件，需要安装的软件清单

|  |
| --- |
| #platform=x86, AMD64, or Intel EM64T  #version=DEVEL  # Firewall configuration  firewall --disabled  # Install OS instead of upgrade  install  # Use CDROM installation media  cdrom  # Root password  # root 默认密码sunrunvas  rootpw --iscrypted $1$K1aIiGPX$8lgH6BTjg5.ORwL5J0wmd/  # System authorization information  auth --useshadow --passalgo=sha512  # System keyboard  keyboard us  # System language  lang zh\_CN.UTF-8  # SELinux configuration  selinux --disabled  # Installation logging level  logging --level=info  # Reboot after installation  halt  # System timezone  timezone Asia/Shanghai  # System bootloader configuration  bootloader --location=mbr --driveorder=sda --append="crashkernel=auto rhgb quiet"  # Clear the Master Boot Record  zerombr  # Partition clearing information  clearpart --all  # Disk partitioning information  autopart  %packages  @base  @basic-desktop  @chinese-support  @debugging  @desktop-debugging  @desktop-platform  @fonts  @general-desktop  @input-methods  @internet-browser  @legacy-x  @print-client  @x11  %post - nochroot  rm -rf /etc/yum.repos.d/\*  echo -e "\  [SunrunOS]\n\  name=SunrunOS\n\  baseurl=file:///media/SunrunOS/\n\  gpgcheck=0\n\  enabled=1\n\  gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6\n\  " > /etc/yum.repos.d/Sunrun.repo  /usr/sbin/useradd sunrun  /bin/echo "sunrun" | /usr/bin/passwd --stdin sunrun  %end |

* 修改安装引导文件
* 生成ISO文件

|  |
| --- |
| # cd SunrunOS  # mkisofs -o ../SunrunOS.iso -input-charset utf-8 -b isolinux/isolinux.bin -c isolinux/boot.cat -no-emul-boot -boot-load-size 4 -boot-info-table -R -J -v -V SunrunOS-T ../SunrunOS |

* 生成ISO文件的MD5值

|  |
| --- |
| # /usr/bin/implantisomd5 SunrunOS.iso |

# 制作RPM安装包

## 构建RPM打包环境

* 安装rpmbuild相关软件

|  |
| --- |
| # yum install rpmbuild redhat-rpm-config |

* 准备目录

|  |
| --- |
| # (root用户登陆)  # mkdir -p ~/rpmbuild/{BUILD,RPMS,SOURCES,SPECS,SRPMS} |

* 配置环境变量

|  |
| --- |
| # echo '%\_topdir %(echo $HOME)/rpmbuild' > ~/.rpmmacros |

* 系统自带的环境变量的定义可参考“RPMMacros”的说明，附录参考文档有详细说明，此处不再赘述

### RPM安装包制作原理

SunrunOS中的RPM包全部都是根据已编译的二进制文件或者相关配置文件生成RPM包，所以在制作RPM包过程中不需要从源码进行重新编译，每个RPM包中的源文件都是需要安装的文件的tar.gz文件。

以下是对各个环节的主要工作的详细说明：

|  |  |
| --- | --- |
| %pre | 解压源文件 |
| %install | 将源文件拷贝到RPMBUILDROOT目录 |
| %files | 文件清单 |

## RPM安装包

### SunrunVAS-rdp

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | SunrunVAS-rdp-3.4-0.el6.x86\_64.rpm |
| **依赖包名（暂定）** | openssl |
| libX11 |
| glibc |
| krb5-libs |
| libcom\_err |
| zlib |
| libxcb |
| keyutils-libs |
| libXau |
| libselinux |
| libXpm |
| **源文件URL** |  |
| **源文件目录名** |  |
| **文件清单** | /usr/local/bin/vastrdp |
| /usr/local/bin/cover |
| /usr/local/bin/.cover/image/ |
| /usr/local/bin/.cover/config/ |
| /usr/local/share/vastrdp/keymaps/ |
| **SPEC文件名** |  |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrunvascore.spec |
| **说明** |  |

### SunrunVAS-spice

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | SunrunVAS-spice-3.4-0.el6.x86\_64.rpm |
| **依赖包名（暂定）** | libjpeg-turbo  zlib  pixman  openssl  pulseaudio-libs-glib2  pulseaudio-libs  libusb1  usbredir  libgudev1  libX11  libXrandr  gtk2  atk  glib2  pango  cairo  freetype  fontconfig  glibc  celt051  cyrus-sasl-lib  libcacard  nss  nss-util  nspr  krb5-libs  libcom\_err  libSM  libICE  libXtst  tcp\_wrappers-libs  libsndfile  libasyncns  dbus-libs  libudev  libxcb  libXext  libXrender  libXfixes  libXinerama  libXi  libXcursor  libXcomposite  libXdamage  libselinux  libpng  expat  keyutils-libs  libuuid  flac  libvorbis  libogg  libXau  nss-softokn-freebl |
| **源文件URL** |  |
| **源文件目录名** | SunrunVAS-spice |
| **文件清单** | /usr/local/lib/libspice-client-glib-2.0.so.8 |
| /usr/local/lib/libspice-client-gtk-2.0.so.4 |
| /usr/local/bin/spicy |
| /usr/local/bin/sunrunvdi\_s |
| /usr/local/share/locale/zh\_CN/LC\_MESSAGES/spice-gtk.mo |
| /usr/share/icons/sunrun/ sunrun.png |
| /usr/share/sunrun/ui/popup\_tools\_window.ui |
| **SPEC文件名** |  |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrunvascore.spec |
| **说明** |  |

### SunrunVAS-core

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | SunrunVAS-core-3.4-0.el6.x86\_64.rpm |
| **依赖包名（暂定）** | libXpm |
| libXaw |
| wmctrl |
| autocutsel |
| xsel |
| python |
| **源文件URL** |  |
| **源文件目录名** | SunrunVAS-core |
| **文件清单** | /usr/local/bin/cp-server.py |
| /usr/local/bin/vast-core |
| /usr/local/bin/vastserver |
| /etc/init.d/cpsctl |
| /etc/rc2.d/S99cpsctl |
| /etc/rc3.d/S99cpsctl |
| /etc/rc5.d/S99cpsctl |
| /etc/rc6.d/K01cpsctl |
| **SPEC文件名** | sunrunvascore.spec |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrunvascore.spec |
| **说明** |  |

### SunrunVas-core2

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | SunrunVAS-core2-3.4-0.el6.x86\_64.rpm |
| **依赖包名** | wmctrl |
| metacity |
| libjpeg |
| zlib |
| gnutls |
| libgpg-error |
| libgcrypt |
| glibc |
| pixman |
| libXfont |
| libXau |
| pam |
| libX11 |
| libstdc++ |
| libgcc |
| libtasn1 |
| freetype |
| libfontenc |
| audit-libs |
| libxcb |
| nss-softokn-freebl |
| **源文件URL** |  |
| **源文件目录名** | SunrunVAS-core2 |
| **文件清单** | /usr/local/bin/vasconfig |
| /usr/local/bin/vas-core |
| /usr/local/bin/vasserver |
| **SPEC文件名（待定）** | Sunrunvascore2.spec |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrunvascore2.spec |
| **说明** |  |

### SunrunVAS-manager

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | SunrunVAS-manager-3.4-0.el6.x86\_64.rpm |
| **依赖包名（暂定）** | mysql-devel |
| openssl-devel |
| **源文件URL** |  |
| **源文件目录名** | SunrunVAS-manager |
| **文件清单** | /usr/local/bin/vasmanager |
| /etc/init.d/vas-manager |
| /etc/sunrun/vas-register.pem |
| /etc/sunrun/vas-manager.conf |
| /etc/rc2.d/S99vas-manager |
| /etc/rc3.d/S99vas-manager |
| /etc/rc5.d/S99vas-manager |
| /etc/rc6.d/K01vas-manager |
| **SPEC文件名** | sunrunvasmanager.spec |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrunvasmanager.spec |
| **说明** |  |

### SunrunVAS-gateway

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | SunrunVAS-gateway-3.4-0.el6.x86\_64.rpm |
| **依赖包名（暂定）** | glib2-devel |
| **源文件URL** |  |
| **源文件目录名** | SunrunVAS-gateway |
| **文件清单** | /usr/local/bin/sunrungateway |
| /etc/init.d/sunrun-gateway |
| /etc/sunrun/gateway-ca/ca.crt |
| /etc/sunrun/gateway-ca/ca.key |
| /etc/sunrun/gatewayjson.conf |
| /etc/sunrun/gateway-server.key |
| /etc/sunrun/sunrun-gateway.conf |
| /etc/sunrun/gateway.conf |
| /etc/sunrun/gateway-server.crt |
| /etc/rc2.d/S99sunrun-gateway |
| /etc/rc3.d/S99sunrun-gateway |
| /etc/rc5.d/S99sunrun-gateway |
| /etc/rc6.d/K01sunrun-gateway |
| **SPEC文件名** | sunrunvasgateway.spec |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrunvasgateway.spec |
| **说明** |  |

### SunrunVASAdmin

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | SunrunVASAdmin-3.4-0.el6.x86\_64.rpm |
| **依赖包名（暂定）** | httpd |
| php |
| php-common |
| php-gd |
| php-mysql |
| php-mbstring |
| php-xml |
| php-xml |
| php-mcrypt |
| **源文件URL** | svn://192.168.0.33/code-base/web/vast\_super\_4\_ex\_clean |
| **源文件目录名** | SunrunVASAdmin |
| **文件清单** | /var/www/SunrunVASAdmin/ |
| /etc/httpd/conf.d/sunrunvasadmin.conf |
| **SPEC文件名** | sunrunvasadmin.spec |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrunvasadmin.spec |
| **说明** |  |

### SunrunVAS-recoder

### SunrunVAS-vmms

### Zend Optimizer

* 官方版本的安装过程如下：

安装的是CentOS 6.0 X86\_64版本，PHP为5.3.X

这个Zend的官方网站打到对应的版本

http://www.zend.com/en/products/guard/downloads

我这里选择的是

Zend Guard Loader (Runtime for PHP 5.3) 5.5.0 (64 bit)

下载解压会生成以下2个主要文件：

php-5.3.x/ZendGuardLoader.so --为了方便本人将其放在了PHP的模块默认置:/usr/lib64/php/modules

README.txt --这个是英文版本的详细安装说明

# cp ZendGuardLoader.so /usr/lib64/php/modules/

# vi /etc/php.ini

增加zend\_loader.enable=1

# vi /etc/php.d/zend.ini

增加extension=ZendGuardLoader.so

# servicehttpd restart

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | php-zendoptimizer-5.3-0.el6.x86\_64.rpm |
| **源文件名** | php-zendoptimizer-5.3-0.el6.x86\_64.tar.gz |
| **源文件目录名** | php-zendoptimizer |
| **文件清单** | /etc/php.d/zend.ini |
| /usr/lib64/php/modules/ZendGuardLoader.so |
| **SPEC文件名** | zendoptimizer.spec |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild --target x86\_64 -bb zendoptimizer.spec |
| **说明** | 如需增加32位系统支持，只需要准备php-zendoptimizer-5.3-0.el6.i386.tar.gz  并把命令行改为  # rpmbuild --target i386 -bb zendoptimizer.spec |

### SunrunVAS-ha

* 制作RPM包

|  |  |
| --- | --- |
| **软件包名** | Sunrun-ha\_3.4-3.4-0.el6.x86\_64.rpm |
| **依赖包名（暂定）** | popt |
| openssl |
| glibc |
| krb5-libs |
| libcom\_err |
| zlib |
| keyutils-libs |
| libselinux |
| **源文件URL** |  |
| **源文件目录名** | Sunrun-ha |
| **文件清单** | /usr/sbin/sunrun-ha |
| /etc/init.d/sunrun-ha |
| /etc/sunrun/sunrun-ha/ sunrun-ha.conf |
| /etc/sunrun/sunrun-ha/sunrun-ha |
| /etc/sunrun/sunrun-ha/procnames |
| /etc/init.d/proclook |
| /etc/init.d/proclooksub.sh |
| **SPEC文件名** | sunrun-ha.spec |
| **兼容** | 目前只有x86\_64版本 |
| **编译命令行** | # rpmbuild -bb sunrun-ha.spec |
| **说明** |  |

# 制作SunrunVASInstaller安装包

## 打包服务器信息

192.168.0.39:root:sunrunvas

## 打包环境准备

* Checkout打包环境

|  |
| --- |
| $ su - root  # svn co svn://192.168.0.33/buildenv/Linux/rpmbuild rpmbuild.svn  # ln -sf rpmbuild.svn/BUILD/SunrunInstaller/ SunrunVASInstaller  # svn co svn://192.168.0.33/buildenv/Linux/SunrunOS/buildtools/SunrunOSBuilder buildtools |

## 更新RPM包

### SPEC文件

* 在Checkout出来的打包环境中修改SPEC文件
  + 递增软件版本号
  + 修改Changelog，记录变更点，记录当前包对应的SVN版本号
  + 如果有新增或者删除文件，修改%file段
  + 其它各段如有变更，按相应格式修改或填写
  + 修改完后提交SVN

### 下载软件包源文件并打包

* Export打包环境到根目录rpmbuild下

|  |
| --- |
| (以下命令在root用户下执行)  # cd ~  # svn export svn://192.168.0.33/buildenv/Linux/rpmbuild rpmbuild  # cd rpmbuild/BUILD/SunrunVASAdmin/var/www/  # svn export svn://192.168.0.33/code-base/web/vast\_super\_4\_ex\_clean SunrunVASAdmin |

* 用rpmbuild逐个编译 spec文件

|  |
| --- |
| (以下命令在root用户下执行)  # cd ~/rpmbuild/SPECS/  # rpmbuild -bb sunrunvasadmin.spec  # rpmbuild -bb sunrunvascore.spec  # rpmbuild -bb sunrunvascore2.spec  # rpmbuild -bb sunrunvasgateway.spec  # rpmbuild -bb sunrunvasha.spec  # rpmbuild -bb sunrunvasmanager.spec  # rpmbuild -bb sunrunvasrdp.spec  # rpmbuild -bb sunrunvasspice.spec |

* 制作SunrunVASInstaller

|  |
| --- |
| (以下命令在root用户下执行)  # cd ~/rpmbuild/RPMS  # rm -rf ~/SunrunVASInstaller/x86\_64/  # cp x86\_64/ ~/SunrunVASInstaller/ -raf  # cd ~/SunrunVASInstaller/  # ~/buildtools/prevasinstaller.py `pwd` <buildno>  # cd release  # ls  SunrunVASInstaller-3.4.0-xxx.el6.tar.gz (此次的xxx是build号)  (将生成的SunrunVASInstaller-3.4.0-xxx.el6.tar.gz上传即可) |

# SunrunOS必需软件包列表

## HTTP服务器相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| @Web Server |  | 官方源或官方更新源 |
| @PHP Support | php-5.3.3  php-cli-5.3.3  php-common-5.3.3  php-gd-5.3.3  php-pdo-5.3.3  php-pear-1.9.4  php-xml-5.3.3 |  |
| php-mbstring |  |  |
| php-mysql |  |  |
| php-ldap |  |  |
| php-soap |  |  |
| php-xmlrpc |  |  |

## MySQL服务器相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| @MySQL Database server |  | 官方源或官方更新源 |
| MySQL-python |  | [http://rpmfind.net//linux/RPM/centos/6.5/x86\_64/Packages/MySQL-python-1.2.3-0.3.c1.1.el6.x86\_64.html](http://rpmfind.net/linux/RPM/centos/6.5/x86_64/Packages/MySQL-python-1.2.3-0.3.c1.1.el6.x86_64.html) |

## Vastcore相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| autocutsel | autocutsel-0.9.0-1.el6.rf.x86\_64.rpm | <http://pkgs.repoforge.org/> |
| wmctrl | wmctrl-1.07-1.el6.rf.x86\_64.rpm |
| xsel | xsel-1.2.0-8.el6.x86\_64.rpm | <http://dl.fedoraproject.org/pub/epel/6/x86_64/> |
| libXaw | libXaw-1.0.11-2.el6.x86\_64.rpm | 官方源或官方更新源 |
| libXpm | libXpm-3.5.10-2.el6.x86\_64.rpm |

## Vasrecoder相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| curl | curl-7.19.7-37.el6\_5.3.x86\_64.rpm | 官方源或官方更新源 |

## PHP扩展包

|  |  |  |
| --- | --- | --- |
| 扩展库名称 | RPM包 | 来源 |
| ZendGuardLoader.so | php-zendoptimizer-5.3-0.el6.x86\_64.rpm | 从Zend.com下载二进制包，然后制作RPM安装包 |
| ssh2.so | php-pecl-ssh2-0.11.0-7.el6.x86\_64.rpm | <http://dl.fedoraproject.org/pub/epel/6/x86_64/> |
| radius.so | php-pecl-radius-1.2.7-1.el6.x86\_64.rpm |
| mcrypt.so | php-mcrypt-5.3.3-3.el6.x86\_64.rpm |
| libmcrypt.so.4 | libmcrypt-2.5.8-9.el6.x86\_64.rpm |
| zip.so | php-pecl-zip-1.12.4-2.el6.5.6.x86\_64.rpm | <http://dl.marmotte.net/rpms/redhat/el6/x86_64/php-pecl-zip-1.12.4-2.el6/> |

## VMMS相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| sshpass | sshpass-1.05-1.el6.x86\_64.rpm | <http://dl.fedoraproject.org/pub/epel/6/x86_64/> |
| net-snmp |  | 官方源或官方更新源 |
| net-snmp-utils |  |
| net-snmp-perl |  |
| Curl |  |
| Libcurl |  |
| Tcl |  |
| Expect |  |
| openssl-devel |  |
| net-snmp-libs |  |
| Httpd |  |
| mod\_auth\_mysql |  |
| mod\_ssl |  |
| mod\_perl |  |
| php-snmp |  |
| libdbi-dbd-mysql |  |
| mysql-devel |  |
| mysql-connector-odbc |  |
| Samba |  |
| samba-client |  |
| samba-common |  |
| cifs-utils |  |
| Pixman |  |
| pixman-devel |  |
| libXfont |  |
| Rrdtool | rrdtool-1.3.8-6.el6.x86\_64.rpm | Centos官方镜像源  <http://mirror.centos.org/centos/> |
| rrdtool-php | rrdtool-php-1.3.8-6.el6.x86\_64.rpm |

## Spice客户端相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| celt051 |  | 官方源或官方更新源 |

## KVM相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| glusterfs | glusterfs-3.5.2-1.el6.x86\_64.rpm | <http://download.gluster.org/pub/gluster/glusterfs/3.5/3.5.2/CentOS/epel-6.5/x86_64/> |
| glusterfs-server | glusterfs-server-3.5.2-1.el6.x86\_64.rpm |
| glusterfs-fuse | glusterfs-fuse-3.5.2-1.el6.x86\_64.rpm |

## Glusterfs相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| glusterfs | glusterfs-3.5.2-1.el6.x86\_64.rpm | <http://download.gluster.org/pub/gluster/glusterfs/3.5/3.5.2/CentOS/epel-6.5/x86_64/> |
| glusterfs-server | glusterfs-server-3.5.2-1.el6.x86\_64.rpm |
| glusterfs-fuse | glusterfs-fuse-3.5.2-1.el6.x86\_64.rpm |

## Sunrun-ha相关软件

|  |  |  |
| --- | --- | --- |
| 软件名称 | RPM包 | 来源 |
| popt |  | 官方源或官方更新源 |
| openssl |  |
| glibc |  |
| krb5-libs |  |
| libcom\_err |  |
| zlib |  |
| keyutils-libs |  |
| libselinux |  |
| rsyslog |  |

# 参考文档

* CentOS6.4X86\_64系统定制文档详细版

<http://kling.blog.51cto.com/3320545/1249962>

* Kickstart/Anaconda实现自动化安装原理探究

<http://molinux.blog.51cto.com/2536040/548247>

* 精简CentOS安装镜像之kickstart配置总结

<http://www.hellomac.me/241.html>

* CentOS6.x下制作RPM包

<http://www.centoscn.com/CentOS/Intermediate/2014/0419/2826.html>

* RPM宏定义

<https://fedoraproject.org/wiki/Packaging:RPMMacros?rd=Packaging/RPMMacros>

* RPM包rpmbuild SPEC文件深度说明

<http://hlee.iteye.com/blog/343499>

* 基于CentOS6.0-64定制系统iso制作

<http://blog.csdn.net/xiangliangyu/article/details/13021277>