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| TaosLogo_Tagline | **Standard Operating Procedure** | **Document Number:**  TAOS | **Version:**  1 | **Page Number:**  1 of |
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# Requirements

* VMware Player or Workstation 12.0 (Virtualbox is not compatible with this VM configuration)

# OCAdmin VM Details

##### OCAdmin VM Details #####

Desktop KDE Plasma 5

OS OpenSuse Leap

Version 42.1

Kernel 4.1.13-5-default

CPUs 4

Memory 4G

HDD 20G

##### OCAdmin VM Details #####

##### Local User Accounts #####

Root Taos2015

ocadmin Taos2015

##### Local User Accounts #####

## Installation Instructions

1. Download all files in this directory to a new directory on your system like VMware\OCLinux
2. Install VMware player 12 and update it to latest version
3. Run VMware player and select Open Existing VM, select OCAdmin.vmx from the directory you created
4. Configure the settings to your liking, ie.. add a shared folder, CPU and memory, USB
5. OpenSuse installed its own version of Guest VM tools so it is not recommended to reinstall or select install VMware version of vmtools

## Login and VM setup Instructions

1. At login screen, user account ocadmin should be selected, type the password in the password field to login.
2. After you get the desktop screen the Update manager will most likely require software updates, select install updates from the notification bar
3. Open a terminal or terminator window and run the following command to mount the OCA share on Taos DFS file system
   1. cd bin/
   2. ./ocmnt.sh
   3. It will ask for your Taos username and password, and the root password, to attach to the mounted filesystem

# OCADMIN LINUX ENVIRONMENT

You now have a fully functional Linux environment to help you support Linux environment clients at Taos and to give you a better working knowledge of the Linux OS environment.

Listed below are the features you will be able to use to accomplish both of the above objectives:

### ## KDE Task Bar icons - Panel at the bottom of screen ##

KGear - A Start button for Windows users - all applications in categories

Firefox - iMacros and Salesforce overlay installed, update the Salesforce overlay.

>Konsole - KDE terminal

Terminator - Multi-Window terminal application, can be used to have multiple terminal sessions in 1 window

Yast - OpenSuse Control Center, software manager.

System Settings - Configure workspace, themes, color, network, mostly user profile settings

Pidgin - Setup your spark account here, also you can setup BMRN Lync, and Skype.

Putty - Used for Sonicwall Linux systems, and Zipcar Linux systems

KRDC - Remote Desktop application, works for Server2012 based Windows.

Thunderbird - Email client. Configure for Taos Email if you like.

KeepassX - Opens most keepass files

Dolphin - File manager, split window file management

Pager - Currently configured for 2 virtual desktops, move apps between the 2. Configure more (4) in System settings

Clipboard, Volume, Network, Notifications, Clock/Calendar, Panel settings - icons on the right

Desktop settings - Right click the desktop and change/download new wallpapers

## ### The power of the Command Line is strong with this one ###

I built several command line tools in this VM and am adding more command based tools in the OCA DFS location

These tools will be located in the 'Public' folder

Listed below are the command tools that are currently loaded all are accessed from either the Konsole or Terminator window

### ## alias - 'a' ##

# I created several shortcuts called alias to remote desktop / ssh into several clients

# You will need to edit to change the usernames in the .bash\_aliases file

type 'a' for alias | less to show pages of aliases that are defined.

type alias | grep keyword # search for aliases based on keyword

type vim .bash\_aliases # Edit the aliases file to change usernames

### ## cheat - A Linux cheatsheet program ##

# Cheat is a very versatile cheatsheet program that lets you edit current entries and create new ones

# I have it setup so Cheat will use the OCA DFS location for updated cheatsheets

# So if you have ideas or new entries for cheat send me an email with them and I will get them added. dhaines@taos.com

Usage:

cheat <cheatsheet>

cheat -e <cheatsheet>

cheat -s <keyword>

cheat -l # lists current cheatsheets

cheat -d # lists the directories where cheatsheets are stored

cheat -v # version

# Tip: You may want to edit aliases and add some cheat aliases such as 'cs' cheat -s

# Cheat search via keyword is very powerful, I use it all the time

# Cheat editing is very nice too, it uses VIM to edit current and new cheatsheets. Again send me any additions you might want to create so all of us will be able to use them.

### ## rdesktop ##

# I configured several aliases for client remote desktop sessions.

# if you search aliases 'alias | grep rdesktop' it will list all the rdesktop sessions configured

# Edit the .bash\_aliases and replace my username for yours so you can use the remote desktop sessions

# You can also configure new ones, or change the window settings by typing 'rdesktop --help' for more information.

rdesktop --help # For commandline configuration parameters

### ## ssh ##

# From Konsole/Terminator you will be able to ssh to Taoslab boi-noclinux system, Mocean, Zipcar, and other systems and clients that have setup SSH for us

# Check out the SSH section of the .bash\_aliases file to SSH to the clients listed

# To SSH to Mocean follow these steps

1. Copy your Mocean private key, and the client.opvn to this system, copy the client file to /etc/openvpn

2. type ssh-add <mocean private key file>

3. In a new terminal window(terminator) type su - # switch user to root

4. From the root account cd /etc/openvpn then type nohup openvpn client.ovpn & hit enter, then type tail -f nohup.out to see if it inititated successfully

5. From the ssh-add window type the alias 'mocean' to ssh to the mocean jumpbox # be sure you have edited .bash\_aliases entry for mocean to have your username to it.

6. From the jumpbox you can ssh to the alerted system.

### ## Scripts ##

# I will be creating scripts and place them in a .scripts folder in the OCA DFS share.

# Copy these scripts to your bin/ directory so they can be executed by name

## ### Client Support Tools ###

This list has the clients and what tools can be used in this VM to support them, in shorthand.

AAA - KRDC

blackarrow - ssh - putty - alias

BioMarin - KRDC

dolby - KRDC

Exelixis - KRDC - rdesktop - alias

Merchant - KRDC

Mocean - openvpn - ssh - putty - alias - zabbix - KRDC - rdesktop alias

Palo Alto Networks - FF

Practice Fusion - KRDC - rdesktop alias

Research Affiliates - KRDC - rdesktop alias

Restoration Hardware - KRDC - rdesktop alias

Rovi - KRDC - rdesktop alias

Soladigm/View - KRDC - opsview monitoring

Sonicwall - Avantail VPN - KRDC - rdesktop alias - putty

Yodlee -

Zipcar - ssh passwordless - KRDC - rdesktop alias - slack

# Revision History

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| --- | --- | --- | --- | --- |
| Date | Description | Prepared By | Reviewed By | Revision No |
| 02/17/2016 | Draft and initial scope of document | David Haines | David Haines | 0.1 |
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