

Installing and Configuring VERDEOS

Have your server (bios) boot off of the USB storage device that has the VERDEOS software stored.



Select Quick Install.

Select the preferred Language.

Select the Time Zone.

Select Begin Installation.

The server/VERDE will perform the install and reboot the server.

Once rebooted, you'll be prompted to press ENTER to login.

Create/Enter a password for the admin user.

You'll then be asked to create/enter a password for the root user.

You're immediately taken to the menu system.

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VERDE-8.2.0 (rel.14192) - Introduction                                     Key: Next=F6

Welcome!

Now that the Server Software is installed, there are a few
things that must be done to be able to start the System Services.

Some Networking and System Server parameters must still be configured.
The Configuration Wizard will guide you through this first step.

In any of the menus or data entry points, there is an option to either
back out of a step by pressing the "F5" key, or in selected places,
the "F6" key can be pressed to go forward to the next step in a
sequence.

In the menus, the "*" denotes items requiring configuration in order
to start System Services.

Press "F6" to enter the Main Setup Wizard: █

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Press 'F6'

- Select Option '2' as directed by the asterisk .. press 'Enter'

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VERDE-8.2.0 (rel.14192) - Choose Interface                             Key: Back=F5

Choose the Basic Interface or Network to configure:

1 - vbinat0: NAT interface [192.168.84]
2 * eth0: Realtek RTL8111/8168/8411: [00:25:64:cc:b8:3d] - not configured
3 - Use Standard Linux Network Configuration
4 - Go back to previous Step (F5)
5 - [ Continue to next Step (F6) ]

Choose 1-5: 2 █

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- Select '1', the default .. press 'Enter'

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VERDE-8.2.0 (rel.14192) - NIC Usage
Key: Back=F5

The NIC, "eth0", may be used in one of
the following ways:

1 - Form new Network from NIC "eth0".
2 - Exit Menu (F5)

Choose 1-2: 1
  
```

- Use the defaults ... 'NETWORK0' and '1500' for the MTU size .. press 'Enter'

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VERDE-8.2.0 (rel.14192) - NETWORK0: Network Parameters Configuration
Key: Back=F5, Next=F6

A "Network" device will represent "eth0" and it can be
configured here for host or guest networking. Adding slave devices
to this Network will enable Port Bonding on this Network.
Enter a name for the Network: NETWORK0
If either the host or any of the guests are using a VLAN and a loss of
connectivity is seen, or, if larger frame sizes are desired, then the
MTU (Maximum Transmission Unit) may need to be adjusted from the default
value of 1500. To fix VLAN connectivity, first try a value of 1504.
The MTU can be set to any value from 68 to 16110
Enter the MTU for this Network [68-16110] 1500_
  
```

- Select Option '1' .. 'Add VLAN or non-VLAN Host-Access' .. Press 'Enter'

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VERDE-8.2.0 (rel.14192) - NETWORK0 Host-Access/VLAN Configuration
Key: Back=F5, Next=F6

Host Network access to the Network can be added, changed, or
deleted. Host-Access can be configured as non-VLAN
(trunk) access or as Tagged-VLAN access where a non-zero
number is entered in the "Tag" field

1 - Add VLAN or non-VLAN Host-Access.
2 - Go back to previous Step (F5).
3 - Continue to next Step (F6).

Choose 1-3: 1
  
```

- Select the default '0' ... Press 'Enter' ... "Will this Interface use DHCP?".. N. Select the default .. Press 'Enter'
- "Will this interface provide the server's public IP" .. Select 'Y' .. Select the default .. Press 'Enter'
- Enter this server's (*the Branch server's*) IP address .. Press 'Enter' – 192.168.7.91
- Host Access Netmask ... Enter Custom Netmask or select the default .. Press 'Enter' – 255.255.255.0
- Host Access Broadcast Address .. Enter Custom Broadcast Address or select the default) .. Press 'Enter'

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VERDE-8.2.0 (rel.14192) - NETWORK0: Network Host-Access Configuration
Key: Back=F5, Next=F6

The Network NETWORK0 can be configured to access multiple virtual
networks or "VLANs". It can also be configured to access the non-
VLAN "Trunk" interface by setting "Host-Access VLAN" to "0".
Networks dedicated only to Virtual Machines may not need any Host-
Access configured at all.

Press "F6" to continue if you want no Host-Access for this Network.

Host-Access VLAN Tag (0 = Non-VLAN/Trunk): [0-4095] 0
Will this interface use DHCP to obtain the network address? [y/N] N
Will this interface provide the server's Public Address? [Y/n] Y
Host-Access IP address: 192.168.7.170
Host-Access Netmask: 255.255.255.0
Host-Access Broadcast Address: 192.168.7.255
  
```

- You will be switched back to the 'Host-Access/VLAN Configuration' Screen. Press F6
- You will be switched back to the 'Basic Interface or Network to configure' screen. Press F6

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VERDE-8.2.0 (rel.14192) - Choose Interface                                     Key: Back=F5, Next=F6

Choose the Basic Interface or Network to configure:

1 - vbinat0: NAT interface [192.168.84]
2 - NETWORK0: Simple(eth0) [192.168.7.170]
3 - Use Standard Linux Network Configuration
4 - Go back to previous Step (F5)
5 - Continue to next Step (F6)

Choose 1-5: 

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- You will be switched to the 'Default Route/Gateway' Setup. Enter the IP address of your default GATEWAY – 192.168.7.254 ... Press 'Enter'

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VERDE-8.2.0 (rel.14192) - Default Route/Gateway Setup                       Key: Back=F5

None of the networks have been configured for DHCP so
the Default Route must be manually configured with a
valid IP address.
Currently, the Default Route is not configured.
Enter a valid IP address for the Default Route.

Enter the Gateway/Default-Route address: 192.168.7.254

```

- You will be switched to 'DNS Server Addresses'.. Enter your DNS Server IP's (Primary) and (Secondary) addresses. Ex. 8.8.8.8 .. Press 'Enter' 68.94.156.8 and 68.94.157.8

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VERDE-8.2.0 (rel.14192) - DNS Server Setup
Key: Back=F5

Please enter any number of DNS (Domain Name Server)
addresses. If any networks are configured for DHCP,
this field can be left empty and will be auto-
matically populated.

Enter a list of DNS servers, separated by comma (',')
characters. Spaces are allowable.
Example:

    '192.168.1.2, 192.168.1.3,192.168.1.4'

Enter DNS Server addresses for the Network:
--> 8.8.8.8_
  
```

- You will be switched to 'Server or Cluster' configuration.
Select Option '1' (Cluster Master + Management Console + VDI Server) .. Press 'Enter'

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VERDE-8.2.0 (rel.14192) - Server Role
Key: Back=F5, Next=F6

Choose one of these types of Server or Cluster
configuration:

1 - Cluster Master + Management Console + VDI Server
2 - Cluster Master + Management Console (does not host VDI sessions)
3 - VDI Server only (cluster node)
4 - Gateway only (connection broker)

Choose 1-4: 1
  
```

- You will be switched to the screen to enter the Public Address of your server .. (it should already be populated) Enter this server's IP Address Press 'Enter'

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VERDE-8.2.0 (rel.14192) - Public Address                                     Key: Back=F5, Next=F6

The Public Address is the network-resolvable hostname
or IP address that clients will use to connect
to this server.

Enter the Public Address:
--> 192.168.7.170_
```

- You will be switched to the 'External Storage Type' screen.
At this point .. select Option '3' (Do Not Configure Mount Point) .. Press 'Enter'

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VERDE-8.2.0 (rel.14192) - External Storage Type                           Key: Back=F5, Next=F6

Choose one of these types of External Storage:

1 - CIFS-style mount (Windows)
2 - NFS-style mount (Linux Server)
3 - Do not configure mount-point

Choose 1-3: 3
```

- You will be switched back to the 'Main Menu'.
You need to test your Network Configuration.
Select the default .. Option '1' .. denoted by the 'asterisk' and Press 'Enter'


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VERDE-8.2.0 (rel.14192) - Network Configuration
Key: Back=F5

1 - Network Configuration Wizard
2 - Configure Networks
3 - Configure Default Route
4 - Configure DNS Servers
5 * Test Networking (and External Storage)
6 - Revert the Network Configuration
7 - Exit to Main Menu

Choose 1-7: 5

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- Press '5' .. This is the default option denoted by the 'asterisk'. Press 'Enter'
- Success?
- Press Enter to continue. Returns to Main Menu

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VERDE-8.2.0 (rel.14192) - Test <NONE> Mount Point
Key: Back=F5

Testing Networking and Mount Command...

Bringing up configured networking. (Please wait...)
No External Storage Type configured!
  NETWORK0:          addr=192.168.7.170      mtu=1500
Bringing down networking.

SUCCESS! The network/mount test passed!

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- Exit Main Menu .. Option '7' .. Press 'Enter'

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VERDE-8.2.0 (rel.14192) - Start System Services and Networking
Key: Back=F5

This will start System Services with your present
configuration.

Start System Services and Networking? [y/N] y

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- At the Main Menu, select Option '5 – Start Networking' .. Press 'Enter'
 - Start Networking? [y/N] 'y'
- At the Main Menu, select Option '4' .. to 'Start System Services' .. Press 'Enter'
 - Start System Services [y/N] 'y'

- At the Main Menu, select Option '10' ... 'Root Shell'
 - Password (this is the root password you created at the start of installation)

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VERDE-8.2.0 (rel.14192) - Main Menu                                     Key: Back=F5

 1 - Network Configuration (sub-menu)
 2 - Server Configuration (sub-menu)
 3 - Branch Configuration (sub-menu)
 4 - Stop System Services
 5 - Stop System Services and Networking
 6 - Restart the Management Console
 7 - Generate Support Report
 8 - Reboot this Server
 9 - Power-Off this Server
10 - Root Shell (Requires password)
11 - Log out of Menu
  
```

Check the status of the VERDE service with this command:

service VERDE status

```

Password:
[root@localhost ~]# service VERDE status
[root@localhost ~]# _VERDE                                     [ OK ]
  
```

Check the status of the VERDE service with this command:

service VERDE status

If ok ... 'Edit' the settings.node file to change Logging to 'debug' on the Branch Server and Cluster Master:

vi /var/lib/verde/settings.node

Change line 5 from "note" to "debug"

VERDE Node configuration, automatically created by verde-config

WIN4_MC_USER="vb-verde"

WIN4_SERVER_ROLE="CM_VDI"

VERDE_SERVER_UUID="062a2e64-f137-4b5e-bd62-2ad3c2be4ea5"

WIN4_DBG_MOD_ALL="note"

VERDE_ISOLATED_GATEWAY="no"

VERDE_GATEWAY_CM_LIST=""

VERDE_INITIAL_RESOURCE_TAGS="NETWORK:NETWORK0"

WIN4_VERDE_PUBADDR="192.168.0.19"

WIN4_NAT_SUBNET="192.168.84"

VERDE_DISABLE_CPUFREQ="no"

DO NOT EDIT THIS LINE OR ABOVE IT

Enter the following command to 'monitor' the VERDE Server:
cat /var/log/verde/1/win4prod.txt
(and)
cat /home/vb-verde/logs/<ServerIP>-mc.log