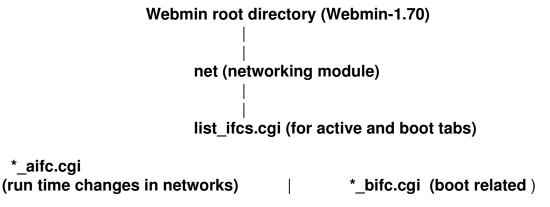
Development Manual

Note:

- Developed on Ubuntu 14.04 LTS.
- 2. I have created PATCH for you of modified networkings module of webmin. I will share it with you in the email.

Network module code hierarchy of webmin is shown below.



linux-lib.pl file is for all distribution of linuxs and **debian-linux-lib.pl** file is only for debian based linux distribution.

Added code in Webmin networking module

Following line added in webmin-1.760_naveed/net/acl_security.pl. This piece of code to add promisc feature in user access.

Changes in the following debian/ubuntu specific file is in webmin-1.760 naveed/net/debian-linux-lib.pl

```
if ($param eq 'wpa-ssid')
{
     $cfg->{'ssid'} = $value;
}

if ($param eq 'wpa-psk')
{
     $cfg->{'wpa_passphrase'} = $value;
}
```



```
if ($param eq 'noauto') {
      $cfg->{'up'} = 0;
}
elsif($param eq 'up') ### to check for promisc line in interfaces file
{
```

if ((\$value =~ m/(promisc)/)) # if line has ifconfig eth0/wlan0 promsic

```
{
                        my ($ifcon,$interface,$promisc_value) = split (//,$value); ## ifconfig
eth0 promic or -promisc
                        $value=$promisc_value;
                        push(@iface_options, [$ifcon, $value]);
                                  if ($value eq "promisc")
                                  $cfg->{'promisc'} = 1;
                                  else
                                  {
                                   cfg - {promisc'} = 0;
                                  }
```

}

```
###########how web min handle parameters .. for promisc
```

```
# (name, addrfam, method, options) with
  name
           the interface name (e.g. eth0)
  addrfam
            the address family (e.g. inet, inet6)
  method
            the address activation method (e.g. static, dhcp, loopback)
  options
           is a list of (param, value) pairs
#------#
# save_interface(&details)
# Create or update a boot-time interface
sub save_interface
my \$cfg = \$_[0];
##############saving in file
if ($cfg->{'promisc'})
   {
```

```
push(@options, ["up","ifconfig $name promisc"]);
                                                                    Saving in file
    }
       #replaced promisc with ifconfig due to wrong line in interfaces files
{
     push(@options, ["up","ifconfig $name -promisc"]);
                                                                     Saving in file
##disable promisc
}
############################SSID and WPA passphrase ###
if ($name =~ /^(wlan)/)
```

```
if ($cfg->{'ssid'} && $cfg->{'wpa_passphrase'})
   {
   push(@options, ['wpa-ssid', $cfg->{'ssid'}]);
                                     Saving in file
   push(@options, ['wpa-psk', $cfg->{'wpa_passphrase'}]);
   }
}
#-------#
if ( ($line =~ m/(wpa-ssid)/ )) { ##if wpa-psk matched, get it
               my (p,v) = split (//, line);
               push(@iface_options, [$p, $v]);
           }
           if (($line =~ m/(wpa-psk)/)) { ##if wpa-psk matched, get it
```

```
my (p1,v1) = split (//, line);
                                                                                                                                                                                                                    push(@iface_options, [$p1, $v1]);
                                                                                                                                                             }
 if ((\$param, \$value) = (\$line =~ /^\s*(\S)\s(.*)\s*$/)) { #here is the issue for ifconfig
 eth0/wlan0 promsic
                                                                                                                                                                                                                    push(@iface options, [$param, $value]);
                                                                                                                                                             }
                                                                                                                                                                elsif ( (\$param) = (\$line = \sim /^\s^*(\S)\s^*\$/) ) {
                                                                                                                                                                                                                    push(@iface_options, [$param, "]);
                                                                                                                                                                                                                    }
#-----END------END------
#
 Change in the main file of netwokring module of webmin-1.760_naveed/net/linux-lib.pl
if (\$I = \sim /P-t-P:(\S)/) \{ \$ifc\{'ptp'\} = \$1; \}
                                                                                                         elsif (1 = \frac{\pi}{\sqrt{S}}  (\S)/) { $ifc{'ptp'} = $1; }
                                                                                                          \frac{\sin(\pi)}{\sin(\pi)} if \frac{1}{\sin(\pi)} if \frac{1}{\sin(\pi)
                                                                                                          \frac{\sin(\pi)}{\sin(\pi)} if \frac{\pi}{\sin(\pi)} if \frac{\pi}{\sin(\pi)
interface
```

if (\$a->{'promisc'}) {

my \$length= @a;

if(\$length>=1){

```
#------#
   if ($a->{'up'})
   $cmd .= " up";
   }
   else
   {
   $cmd .= " down";
   }
###########for promisc
```

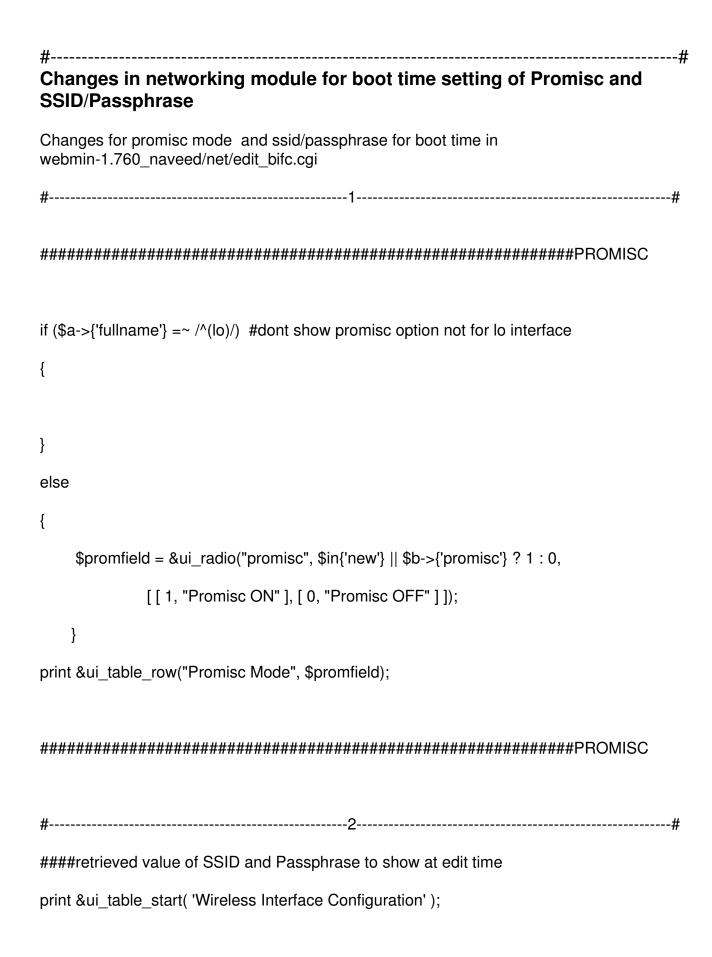
```
8 of 19 7/24/2015 4:48 PM
```

my @a= `ifconfig -a | grep PROMISC | awk \'{print \\$4}\'`;

```
&error("<font color=#000fff>Only One Inteface(wired/wireless) can be in
Promisc Mode</font>");
        else {
        $cmd .= " promisc";
    }
################################ELSE
for -promisc
    else{
    $cmd .= " -promisc";
    }
#------#
  ($iface->{'name'} !~ /^(eth|wlan|em|eno|ens|enp|enx|lo|br)/ ||
#-----END------END------
#
Changes for active interfaces (promisc mode setting)
Changes for promisc mode for active interfaces in webmin-1.760_naveed/net/edit_aifc.cgi
##promisc# Current status
```

```
if (\$a->\{\text{'fullname'}\} = \sim /^(lo)/) #dont show promise option for lo interface
{
}
else
{
    $promfield = &ui_radio("promisc", $in{'new'} || $a->{'promisc'} ? 1 : 0,
             [[1, "Promisc ON"], [0, "Promisc OFF"]]);
    }
#
print &ui_table_row("Promisc Mode", $promfield);
}
#-----END------
#
Code added in the following list interfaces file of networking module
webmin-1.760 naveed/net/list ifcs.cgi
##for promisc
    push(@tds, "width=5% valign=top");
#------#
                  $text{'ifcs_status'} ], 100, 0, \@tds);
                  $text{'ifcs_status'},
                  "Promisc"], 100, 0, \@tds);
#------#
```

```
##for promisc
         if (a->\{fullname'\} = \sim /^(lo)/) #dont show promise option for lo interface
         {
              push(@cols, $a->{'promisc'} ? "<font color=#000fff>loopback</font>":
              "<font color=#ff0000>loopback</font>");
         }
         else
         {
         push(@cols, $a->{'promisc'} ? "<font color=#000fff>ON</font>":
              "<font color=#ff0000>OFF</font>");
         }
#-----#
Code added in the following list interfaces file of networking module
webmin-1.760_naveed/net/save_aifc.cgi
# Save active flag---promisc
    #if (!$access{'ON'}) {
         $a->{'promisc'} = $in{'promisc'};
#
         $a->{'promisc'} = $in{'new'} ? 1 : $olda->{'promisc'};
#-----#
```



```
print &ui_table_row('SSID', ui_textbox("ssid",$b->{'ssid'}), 32);
print &ui_table_row('WPA/WPA2 Passphrase', ui_password("wpa_passphrase",
$b->{'wpa_passphrase'}), 40);
print &ui_columns_end();
#------END------#
Code added in the following list interfaces file of networking module
webmin-1.760 naveed/net/list ifcs.cgi
push(@tds, "width=5% valign=top"); ##promisc at boot
#------#
             $text{'ifcs_act'} ], 100, 0, \@tds);
            # $text{'ifcs_act'}], 100, 0, \@tds);
             $text{'ifcs_act'},
#
             $text{'ifcs_status'},
            "Promisc"], 100, 0, \@tds);
#-------#
###for promisc show on list_ifcs.cgi for boot time
```

```
if (\$a->\{\text{'fullname'}\} = \sim /^(lo)/) #dont show promisc option for lo interface
          {
               push(@cols, $a->{'promisc'} ? "<font color=#000fff>loopback</font>":
                "<font color=#ff0000>loopback</font>");
          }
          else
          {
          push(@cols, $a->{'promisc'} ? "1": "0");
#
          push(@cols, $a->{'promisc'} ? "<font color=#000fff>ON</font>":
                "<font color=#ff0000>OFF</font>");
          }
#-----#
Code added in the following list interfaces file of networking module
webmin-1.760 naveed/net/save bifc.cgi
#------#
          $b->{'promisc'} = $in{'promisc'}; ##promisc old Instead of old use in value here
```

```
#------#
        # Save boot time---promisc
   #if (!$access{'ON'}) {
       $b->{'promisc'} = $in{'promisc'};
       $a->{'promisc'} = $in{'new'} ? 1 : $olda->{'promisc'};
#
         }
#------#
phrase
# validate input
  # my $ssid_len = length($in{'ssid'});
  # if (($ssid_len <= 0) || (32 < $ssid_len))
    {
#
# &error("<font color=#000fff>SSID lenght is not valid</font>");
     error($text{'ssid_wrong_length'});
#
#
    }
   #elsif (\sin{(\sin(\sin y))} = \sim /[w]/)
    #{
    # error($text{'ssid_bad_characters'});
    # &error("<font color=#000fff>The SSID you specified had invalid characters.</font>");
```

```
#}
#
     else
#
     {
               $changes{'ssid'} = $in{'ssid'};
#
           $b->{'ssid'} = $in{'ssid'};
#
     }
    if (\sin{'wpa\_passphrase'} = \sim /[\w]/)
#
     {
           # error($text{'passphrase_bad_characters'});
      &error("<font color=#000fff>The passphrase you specified had invalid
characters.</font>");
#
     }
#
     else
#
     {
           $changes{'wpa_passphrase'} = $in{'wpa_passphrase'};
     #
                 $b->{'wpa_passphrase'} = $in{'wpa_passphrase'};
     }
#
#------#
```

####################check for more than 2 promisc interfaces

########testing

```
open (FILE, '/etc/network/interfaces');
      chomp (@lines = (<FILE>));
      close(FILE);
      count = 0;
      foreach $line (@lines) {
              if (\frac{\sin e^{-m}}{e^{-m}}) (-promisc)/){##do nothing
             }
              elsif ($line =~ m/ (promisc)/){
             $count;
                    }
      }
      if ($count >=1 && $in{'promisc'} eq "1"){
      #&error("$err");
      &error("<font color=#000fff>Only One Inteface(wired/wireless) can be in Promisc
Mode</font>");
```

```
}
    else{
    #####################check for more than 2 promisc interfaces
    &save_interface($b);
    }
#------#
    #check for only one interface in promisc
    if ($count >=1 && $in{'promisc'} eq "1"){
     &error("<font color=#000fff>Only One Inteface(wired/wireless) can be in Promisc
Mode</font>");
    # &error("Not allowed two interfaces in Promisc");
    }
    else{
    #####################check for more than 2 promisc interfaces
    #&save_interface($b);
    &activate_interface($b);
    }
              }
#-----END------
```

#