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--- Welcher Netzwerkverbindungstyp soll getestet werden?
--- (2) Kabellose Verbindung (WLAN)
--- Welche Netzwerktopologie liegt vor?
--- (1) WLAN access point <---> LinuxClient
--- Auf welchem Rechner wird das Script ausgefuehrt?
--- (1) LinuxClient
--- WLAN SSID zu der verbunden werden soll: $$$$$$$$1

--- NWEIza untersucht das System nach haeufigen Netzwerkkonfigurationsfehlern untersucht
...

--- Keine offensichtlichen Konfigurationsfehler/-warnungen gefunden. Die Datei
collectNWDData.txt im bevorzugten Linux Forum posten und http://www.linux-tips-and-tricks.de/CND\_UPL lesen.

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=====
*** uname -a
Linux linux-8x52 2.6.31.5-0.1-default #1 SMP 2009-10-26 15:49:03 +0100 i686 i686 i386
GNU/Linux
=====
=====
*** cat /etc/*[-_]release || cat /etc/*[-_]version
/etc/SuSE-release
openSUSE 11.2 (i586)
VERSION = 11.2
=====
=====
*** cat /etc/resolv | grep -i "nameserver"
nameserver %%.%.%.%.%1
nameserver %%.%.%.%.%2
=====
=====
*** cat /etc/hosts
127.0.0.1      localhost
127.0.0.2      linux-8x52.site linux-8x52
=====
=====
*** route -n
Kernel IP Routentabelle
Ziel          Router        Genmask       Flags Metric Ref    Use Iface
192.168.0.0    0.0.0.0       255.255.255.0 U        0      0        0 eth0
192.168.0.0    0.0.0.0       255.255.255.0 U        0      0        0 eth1
169.254.0.0    0.0.0.0       255.255.0.0   U        0      0        0 eth0
127.0.0.0      0.0.0.0       255.0.0.0     U        0      0        0 lo
0.0.0.0        192.168.0.1   0.0.0.0       UG       0      0        0 eth0
=====
=====
*** ifconfig
eth0      Link encap:Ethernet  Hardware Adresse ##:##:##:##:##:##:1

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    inet Adresse:192.168.0.220  Bcast:192.168.0.255  Maske:255.255.255.0
    inet6 Adresse: fe80::226:9eff:fe3b:8348/64  Gültigkeitsbereich:Verbindung
    UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
    RX packets:32805 errors:0 dropped:0 overruns:0 frame:0
    TX packets:21814 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 Sendewarteschlangenlänge:1000
    RX bytes:43766659 (41.7 Mb)  TX bytes:2380575 (2.2 Mb)
    Interrupt:27
eth1  Link encap:Ethernet  Hardware Adresse ##:##:##:##:##:##:2
    inet Adresse:192.168.0.218  Bcast:192.168.0.255  Maske:255.255.255.0
    inet6 Adresse: fe80::e60:76ff:fe28:4db/64  Gültigkeitsbereich:Verbindung
    UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
    RX packets:25 errors:0 dropped:0 overruns:0 frame:15
    TX packets:39 errors:8 dropped:0 overruns:0 carrier:0
    collisions:0 Sendewarteschlangenlänge:1000
    RX bytes:3403 (3.3 Kb)  TX bytes:8415 (8.2 Kb)
    Interrupt:16
lo    Link encap:Lokale Schleife
    inet Adresse:127.0.0.1  Maske:255.0.0.0
    inet6 Adresse: ::1/128  Gültigkeitsbereich:Maschine
    UP LOOPBACK RUNNING  MTU:16436  Metric:1
    RX packets:179 errors:0 dropped:0 overruns:0 frame:0
    TX packets:179 errors:0 dropped:0 overruns:0 carrier:0
    collisions:0 Sendewarteschlangenlänge:0
    RX bytes:13127 (12.8 Kb)  TX bytes:13127 (12.8 Kb)
=====
=====
*** ping tests
Ping of 195.135.220.3 OK
Ping of www.suse.de OK
=====
=====
*** dhcpcd-test
eth1: No DHCP server detected info, eth1: hardware address = ##:##:##:##:##:##:2
info, eth1: broadcasting for a lease
debug, eth1: sending DHCP_DISCOVER with xid 0x69e6b374
debug, eth1: waiting for 3 seconds
info, eth1: exiting
=====
=====
*** lspci
00:0a.0 Ethernet controller [0200]: nVidia Corporation MCP79 Ethernet [10de:0ab0] (rev b1)
03:00.0 Network controller [0280]: Broadcom Corporation BCM4312 802.11b/g [14e4:4315] (rev 01)
=====
=====
*** lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 002: ID 0408:0ff1 Quanta Computer, Inc.
Bus 003 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 004 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 004 Device 002: ID 03f0:2a1d Hewlett-Packard
=====
=====
*** hwinfo (filtered)
```

21: PCI 0a.0: 0200 Ethernet controller

Model: "nVidia MCP79 Ethernet"
 Vendor: pci 0x10de "nVidia Corporation"
 Device: pci 0x0ab0 "MCP79 Ethernet"
 SubVendor: pci 0x103c "Hewlett-Packard Company"
 SubDevice: pci 0x3651
 Driver: "forcedeth"
 Driver Modules: "forcedeth"
 Device File: eth0
 Link detected: yes
 Driver Status: forcedeth is active
 Driver Activation Cmd: "modprobe forcedeth"

27: PCI 300.0: 0282 WLAN controller

Model: "Broadcom BCM4312 802.11b/g"
 Vendor: pci 0x14e4 "Broadcom"
 Device: pci 0x4315 "BCM4312 802.11b/g"
 SubVendor: pci 0x103c "Hewlett-Packard Company"
 SubDevice: pci 0x365e
 Driver: "wl"
 Driver Modules: "wl"
 Device File: eth1
 Link detected: yes
 Driver Status: ssb is not active
 Driver Activation Cmd: "modprobe ssb"
 Driver Status: wl is active
 Driver Activation Cmd: "modprobe wl"

***** lsmod # (filtered)**

ac	acpi_cpufreq	aead	af_packet	ahci
arc4	battery	bluetooth	bnep	bridge
btusb	cpufreq_conservative	cpufreq_powersave	cpufreq_userspace	crc16
ecb	edd	ehci_hcd	forcedeth	fuse
hwmon	i2c_core	i2c_nforce2	ip6t_LOG	ip6t_REJECT
iptable_raw	jbd2	l2cap	lib80211	
lib80211_crypt_tkip				
libata	llc	michael_mic	nf_conntrack_ipv4	
nf_conntrack_netbios_ns				
ohci_hcd	output	pci_hotplug	pcompress	rfcomm
rfskill	sco	sg	shpchp	snd_hda_codec
snd_hda_codec_idt	snd_hda_codec_nvhdmi	snd_hda_intel	snd_hwdep	
snd_seq_device				
speedstep_lib	stp	thermal	thermal_sys	uvcvideo
v4l1_compat	video	wl	wmi	xt_limit
xt_NOTRACK	xt_physdev	xt_pkttype	xt_state	xt_tcpudp

```
=====
*** cat /etc/sysconfig/network/ifcfg-[earwd]*
--- /etc/sysconfig/network/ifcfg-eth0
BOOTPROTO='dhcp'
MTU=''
REMOTE_IPADDR=''
STARTMODE='auto'
--- /etc/sysconfig/network/ifcfg-eth1
BOOTPROTO='dhcp'
BROADCAST=''
ETHTOOL_OPTIONS=''
INTERFACETYPE='wlan'
IPADDR=''
MTU=''
NAME='BCM4312 802.11b/g'
NETMASK=''
NETWORK=''
REMOTE_IPADDR=''
STARTMODE='auto'
USERCONTROL='no'
WIRELESS_AP=''
WIRELESS_AUTH_MODE='psk'
WIRELESS_BITRATE='auto'
WIRELESS_CA_CERT=''
WIRELESS_CHANNEL=''
WIRELESS_CLIENT_CERT=''
WIRELESS_CLIENT_KEY=''
WIRELESS_CLIENT_KEY_PASSWORD=''
WIRELESS_DEFAULT_KEY='0'
WIRELESS_EAP_AUTH=''
WIRELESS_EAP_MODE=''
WIRELESS_ESSID='$$$$$$$1'
WIRELESS_FREQUENCY=''
WIRELESS_KEY=''
WIRELESS_KEY_0=''
WIRELESS_KEY_1=''
WIRELESS_KEY_2=''
WIRELESS_KEY_3=''
WIRELESS_KEY_LENGTH='@@@@@'
WIRELESS_MODE='Managed'
WIRELESS_NICK=''
WIRELESS_NWID=''
WIRELESS_PEAP_VERSION=''
WIRELESS_POWER='yes'
WIRELESS_WPA_ANONID=''
WIRELESS_WPA_IDENTITY=''
WIRELESS_WPA_PASSWORD=''
WIRELESS_WPA_PSK='@@@@@'
PREFIXLEN='24'
=====
```

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=====
*** iwconfig
lo          no wireless extensions.
eth0        no wireless extensions.
pan0        no wireless extensions.
eth1        IEEE 802.11bg  ESSID:"$$$$$$$1"
```

```
Mode:Managed   Frequency:2.462 GHz   Access Point: ##:##:##:##:##:##:##  
Bit Rate=54 Mb/s   Tx-Power:24 dBm  
Retry min limit:7   RTS thr:off   Fragment thr:off  
Encryption key:off  
Power Managementmode:All packets received  
Link Quality=5/5   Signal level=-44 dBm   Noise level=-93 dBm  
Rx invalid nwid:0   Rx invalid crypt:4   Rx invalid frag:0  
Tx excessive retries:0   Invalid misc:0   Missed beacon:0
```

*** Actual date for bias of following greps

19:45:37 2010-08-08

```
*** grep -i radio /var/log/messages* | tail -n 5
```

```
*** dmesg | grep -i radio | tail -n 5
```

```
*** tail -n 300 /var/log/messages* | /bin/grep -i firmware | tail -n 5
```

```
*** ls /lib/firmware/*
```

2.6.31.12-0.2-debug	2.6.31.12-0.2-desktop	2.6.31.12-0.2-pae	
2.6.31.12-0.2-xen			
2.6.31.5-0.1-default	3CCFEM556.cis	3com	
3CXEM556.cis			
acenic	adaptec	advansys	
agere_ap_fw.bin			
agere_sta_fw.bin	aic94xx-seq.fw	aica_firmware.bin	ar9170-1.fw
ar9170-2.fw	asihpi	atmel_at76c502_3com.bin	
atmel_at76c502_3com-wpa.bin			
atmel_at76c502.bin	atmel_at76c502d.bin	atmel_at76c502d-wpa.bin	
atmel_at76c502e.bin			
atmel_at76c502e-wpa.bin	atmel_at76c502-wpa.bin	atmel_at76c503-i3861.bin	
atmel_at76c503-i3863.bin			
atmel_at76c503-rfmd-0.90.2-140.bin	atmel_at76c503-rfmd-acc.bin	atmel_at76c503-rfmd.bin	
atmel_at76c504_2958-wpa.bin			
atmel_at76c504a_2958-wpa.bin	atmel_at76c504.bin	atmel_at76c504c-wpa.bin	
atmel_at76c505a-rfmd2958.bin			
atmel_at76c505-rfmd2958.bin	atmel_at76c505-rfmd.bin	atmel_at76c506.bin	
atmel_at76c506-wpa.bin			
atmsar11.fw	av7110	b43	b43legacy
BCM2033-FW.bin	BCM2033-MD.hex	bfubase.frm	bnx2
bnx2x-e1-4.8.53.0.fw	bnx2x-e1h-4.8.53.0.fw	cis	COMpad2.cis
COMpad4.cis	cpia2	cxgb3	dabusb
digiface_firmware.bin	digiface_firmware_rev11.bin	DP83903.cis	dsp56k
dvb-fe-xc5000-1.6.114.fw	dvb-ttpci-01.fw	dvb-ttpci-01.fw-2622	e100

ea	E-CARD.cis	edgeport	emagic
emi26	emi62	emu	ess
i2400m-fw-usb-1.3.sbcf	i2400m-fw-usb-1.4.sbcf	intelliport2.bin	
ipw2100-1.3.fw			
ipw2100-1.3-i.fw	ipw2100-1.3-p.fw	ipw2200-bss.fw	ipw2200-
ibss.fw			
ipw2200-sniffer.fw	ipw-2.2-boot.fw	ipw-2.2-bss.fw	ipw-2.2-
bss_ucode.fw			
ipw-2.2-ibss.fw	ipw-2.2-ibss_ucode.fw	ipw-2.3-boot.fw	ipw-2.3-
bss.fw			
ipw-2.3-bss_ucode.fw	ipw-2.3-ibss.fw	ipw-2.3-ibss_ucode.fw	ipw-2.3-
sniffer.fw			
ipw-2.3-sniffer_ucode.fw	ipw-2.4-boot.fw	ipw-2.4-bss.fw	ipw-2.4-
bss_ucode.fw			
ipw-2.4-ibss.fw	ipw-2.4-ibss_ucode.fw	ipw-2.4-sniffer.fw	ipw-2.4-
sniffer_ucode.fw			
iwlwifi-1000-3.ucode	iwlwifi-3945-2.ucode	iwlwifi-4965-2.ucode	
iwlwifi-5000-1.ucode			
iwlwifi-5000-2.ucode	iwlwifi-5150-2.ucode	kaweth	keyspan
keyspan_pda	korg	LA-PCM.cis	libertas
LICENCE.agere	LICENCE.atheros_firmware	LICENCE.i2400m	
LICENCE.iwlwifi_firmware			
LICENCE.libertas	LICENCE.mwl8k	LICENCE.qla2xxx	
LICENCE.ralink-firmware.txt			
LICENCE.xc5000	LICENSE.ipw2200-fw	LICENSE.ipw2x00	mixart
MT5634ZLX.cis	mts_cdma.fw	mts_edge.fw	mts_gsm.fw
multiface_firmware.bin	multiface_firmware_rev11.bin	mwl8k	myricom
NE2K.cis	ositech	PCMLM28.cis	pcxhr
PE-200.cis	PE520.cis	ql2100_fw.bin	
ql2200_fw.bin			
ql2300_fw.bin	ql2322_fw.bin	ql2400_fw.bin	
ql2500_fw.bin			
qlogic	RS-COM-2P.cis	rt2561.bin	rt2561s.bin
rt2661.bin	rt2860.bin	rt2870.bin	rt73.bin
sb16	slicoss	STLC2500_R4_00_03.ptc	
STLC2500_R4_00_06.ssf			
STLC2500_R4_02_02_WLAN.ssf	STLC2500_R4_02_04.ptc	sun	sxg
tamarack.cis	tehuti	ti_3410.fw	ti_5052.fw
tigon	tr_smctr.bin	ttusb-budget	usbdux
usbduxfast_firmware.bin	usbdux_firmware.bin	v4l-cx231xx-avcore-01.fw	v4l-
cx23418-apu.fw			
v4l-cx23418-cpu.fw	v4l-cx23418-dig.fw	v4l-cx23885-avcore-01.fw	v4l-
cx23885-enc.fw			

```
| v4l-cx25840.fw      | vicam      | vx      |
whiteheat.fw         |
| whiteheat_loader.fw | yam        | yamaha  | zd1211
|
```

--- /lib/firmware

*** ndiswrapper -l

No ndiswrapper module loaded

*** Active processes

wpa_supplicant:YES knetworkmanager:NO nm-applet:NO

*** egrep -i "persistent|networkmanager" /etc/sysconfig/network/config | grep -v "^#|^\$"
NETWORKMANAGER="no"

*** grep 'eth|ath|wlan|ra' /etc/udev/rules.d/*net_persistent*
/etc/udev/rules.d/*persistent-net*

/etc/udev/rules.d/70-persistent-net.rules:SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*",
ATTR{address}=="##:##:##:##:##:##2", ATTR{type}=="1", KERNEL=="eth*", NAME="eth1"
/etc/udev/rules.d/70-persistent-net.rules:SUBSYSTEM=="net", ACTION=="add", DRIVERS=="?*",
ATTR{address}=="##:##:##:##:##:##1", ATTR{type}=="1", KERNEL=="eth*", NAME="eth0"

*** grep -r 'eth[0-10]|ath[0-10]|wlan[0-10]|ra[0-10]' /etc/modprobe.*

*** iwlist scanning

```
ESSID:"$$$$$$$1"
Quality:5/5  Signal level:-56 dBm  Noise level:-94 dBm
IE: WPA Version 1
Encryption key:on
ESSID:"$$$$$$$1"
Quality:5/5  Signal level:-44 dBm  Noise level:-94 dBm
IE: WPA Version 1
Encryption key:on
```

*** NWElizaStates

IF:eth0 IM:1 IF:eth1 IM:2 DI:2 AP:1 FALON:0

[/code]