Lab 11

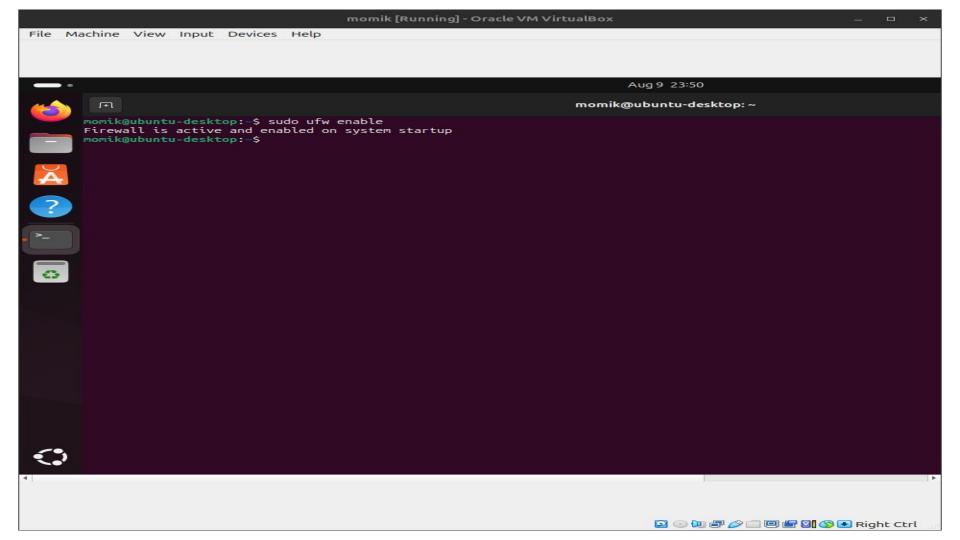## Network configuration basics - iii

1. UFW Start/Stop/Restart

File   Machine   View   Input   Devices   Help

Aug 9 23:50

momik@ubuntu-desktop: ~

```
momik@ubuntu-desktop:~$ sudo ufw enable
Firewall is active and enabled on system startup
momik@ubuntu-desktop:~$
```

Right Ctrl

File   Machine   View   Input   Devices   Help

Aug 9 23:50

momik@ubuntu-desktop: ~

```
momik@ubuntu-desktop:~$ sudo ufw disable
Firewall stopped and disabled on system startup
momik@ubuntu-desktop:~$
```

Right Ctrl

momik [Running] - Oracle VM VirtualBox

File   Machine   View   Input   Devices   Help

Aug 9 23:50

momik@ubuntu-desktop: ~

momik@ubuntu-desktop:~$ sudo ufw reload
Firewall not enabled (skipping reload)
momik@ubuntu-desktop:~$

Right Ctrl

2. Allow DNS Port in Firewall

File   Machine   View   Input   Devices   Help

Aug 9 23:51

momik@ubuntu-desktop: ~

```
momik@ubuntu-desktop:~$ sudo ufw allow 53
Rules updated
Rules updated (v6)
momik@ubuntu-desktop:~$
```

Right Ctrl

File   Machine   View   Input   Devices   Help

Aug 9 23:51

momik@ubuntu-desktop: ~

```
momik@ubuntu-desktop:~$ sudo ufw allow 53/tcp
Rules updated
Rules updated (v6)
momik@ubuntu-desktop:~$
```

Right Ctrl

3. View 'dmesg' Logs

File   Machine   View   Input   Devices   Help

Aug 9 23:51

momik@ubuntu-desktop: ~

```
momik@ubuntu-desktop:~$ sudo dmesg
[    0.000000] Linux version 6.8.0-40-generic (buildd@lcy02-amd64-075) (x86_64-linux-gnu-gcc-13 (Ubuntu 13.2.0-2
 for Ubuntu) 2.42) #40-Ubuntu SMP PREEMPT_DYNAMIC Fri Jul  5 10:34:03 UTC 2024 (Ubuntu 6.8.0-40.40-generic 6.8.1
[    0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-6.8.0-40-generic root=UUID=94dbe706-0294-415c-9f82-fbb59d9
[    0.000000] KERNEL supported cpus:
[    0.000000]   Intel GenuineIntel
[    0.000000]   AMD AuthenticAMD
[    0.000000]   Hygon HygonGenuine
[    0.000000]   Centaur CentaurHauls
[    0.000000]   zhaoxin   Shanghai
[    0.000000] BIOS-provided physical RAM map:
[    0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009fbff] usable
[    0.000000] BIOS-e820: [mem 0x000000000009fc00-0x000000000009ffff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000000f0000-0x00000000000fffff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000000100000-0x00000000dffeffff] usable
[    0.000000] BIOS-e820: [mem 0x00000000dfff0000-0x00000000dfffffff] ACPI data
[    0.000000] BIOS-e820: [mem 0x00000000fec00000-0x00000000fec00fff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000fee00000-0x00000000fee00fff] reserved
[    0.000000] BIOS-e820: [mem 0x00000000fffc0000-0x00000000ffffffff] reserved
[    0.000000] BIOS-e820: [mem 0x0000000100000000-0x000000011fffffff] usable
[    0.000000] NX (Execute Disable) protection: active
[    0.000000] APIC: Static calls initialized
[    0.000000] SMBIOS 2.5 present.
[    0.000000] DMI: innotek GmbH VirtualBox/VirtualBox, BIOS VirtualBox 12/01/2006
[    0.000000] Hypervisor detected: KVM
[    0.000000] kvm-clock: Using msrs 4b564d01 and 4b564d00
[    0.000002] kvm-clock: using sched offset of 4692514391 cycles
[    0.000005] clocksource: kvm-clock: mask: 0xffffffffffffffff max_cycles: 0x1cd42e4dffb, max_idle_ns: 8815905
[    0.000009] tsc: Detected 2711.992 MHz processor
[    0.002599] e820: update [mem 0x00000000-0x00000fff] usable ==> reserved
[    0.002605] e820: remove [mem 0x000a0000-0x000fffff] usable
[    0.002613] last_pfn = 0x120000 max_arch_pfn = 0x400000000
[    0.002621] MTRRs disabled by BIOS
[    0.002625] x86/PAT: Configuration [0-7]: WB  WC  UC- UC  WB  WP  UC- WT
[    0.002651] last_pfn = 0xdfff0 max_arch_pfn = 0x400000000
[    0.002701] found SMP MP-table at [mem 0x0009fff0-0x0009ffff]
[    0.003186] RAMDISK: [mem 0x302ab000-0x3414cfff]
[    0.003625] ACPI: Early table checksum verification disabled
[    0.003630] ACPI: RSDP 0x00000000000E0000 000024 (v02 VBOX  )
[    0.003636] ACPI: XSDT 0x00000000DFFF0030 00003C (v01 VBOX   VBOXXSDT 00000001 ASL  00000061)
```

Right Ctrl

4. View Apache2 Log Files

File   Machine   View   Input   Devices   Help

Aug 9 23:52

momik@ubuntu-desktop: ~

```
momik@ubuntu-desktop:~$ sudo cat /var/log/apache2/error.log
[Fri Aug 09 23:02:23.707024 2024] [mpm_event:notice] [pid 8925:tid 126709130266496] AH00489: Apache/2.4.58 (Ubun
ations
[Fri Aug 09 23:02:23.713313 2024] [core:notice] [pid 8925:tid 126709130266496] AH00094: Command line: '/usr/sbin
[Fri Aug 09 23:37:18.854063 2024] [mpm_event:notice] [pid 8925:tid 126709130266496] AH00492: caught SIGWINCH, sh
momik@ubuntu-desktop:~$
```

Right Ctrl