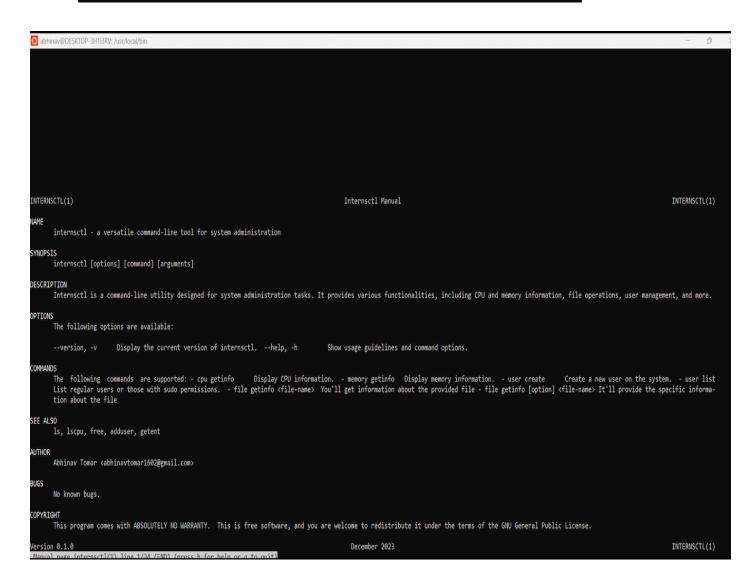
XenonStack Assignments

Section A

1. man internsctl

abhinav@DESKTOP-3H1EIRV:/usr/local/bin\$ man internsctlabhinav@DESKTOP-3H1EIRV:/usr/local/bin\$



2. internsctl -version

```
  abhinav@DESKTOP-3H1EIRV: /usr/local/bin
  abhinav@DESKTOP-3H1EIRV: /usr/local/bin$ internsctl --version
  internsctl v0.1.0
```

3. internsctl -help

```
abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl --help
Usage: internsctl [OPTIONS]
Description: Your command description
Options:
--version
                     Show the current version of internsctl
--help
                     Show this help message
CPU Options:
cpu getinfo
                     Show CPU information
Memory Options:
memory getinfo
                Show memory information
User Options:
user create <username> Create a new user
user list
                      List all users
user list --sudo-only List users with sudo permissions
File Options:
file getinfo [OPTIONS] <file-name> Get information about a file
File getinfo Options:
file getinfo [OPTIONS] <file-name> Get information about a file
File getinfo Options:
--size, -s
                     Print size
--permissions, -p Print file permissions
                    Print file owner
--owner, -o
--last-modified, -m Print last modified date
```

Section B

1. internsctl cpu getinfo

```
/local/bin$ internsctl cpu getinfo
 rchitecture:
                          x86_64
                          32-bit, 64-bit
39 bits physical, 48 bits virtual
 CPU op-mode(s):
 Address sizes:
                          Little Endian
 Byte Order:
 On-line CPU(s) list: 0-7
                          GenuineIntel
  endor ID:
 Model name:
                          Intel(R) Core(TM) i5-1035G1 CPU @ 1.00GHz
   CPU family:
   Model:
   Thread(s) per core:
   Core(s) per socket:
   Socket(s):
   Stepping:
   BogoMIPS:
                          2380.80
   Flags:
                                                                                                                                                          e2 ss ht syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon
                          fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse ss
 _good nopl xtopology tsc_rel iable
f16c rdrand hypervisor lahf_lm abm 3dnowprefetch invpcid
                                                        iable nonstop_tsc cpuid pni pclmulqdq vmx ssse3 fma cx16 pdcm pcid sse4_1 sse4_2 x2apic movbe p
                                                                                                                                                                                         opcnt tsc_deadline_timer aes xsave
                         lahf_lm abm 3dnowprefetch invpcid __single ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid avx512f avx512dq rdseed adx smap avx512ifma clflushopt avx512c d d sha_ni avx512bw avx512vl xsaveo
                                                                                                                                                         d sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves avx51
mi umip avx512_vbmi2 gfni vae
                                                        s vpclmulqdq avx512_vnni avx512_bitalg avx512_vpopcntdq rdpid fsrm flush_l1d arch_capabilities
Virtualization features:
 Virtualization:
 Hypervisor vendor:
 Virtualization type: full
Caches (sum of all):
                          192 KiB (4 instances)
                          128 KiB (4 instances)
                          2 MiB (4 instances)
                          6 MiB (1 instance)
 ulnerabilities:
 Gather data sampling: Unknown: Dependent on hypervisor status
 Itlb multihit:
                          KVM: Mitigation: VMX disabled
                          Not affected
                          Not affected
 Meltdown:
                          Not affected
 Mmio stale data:
                          Vulnerable: Clear CPU buffers attempted, no microcode; SMT Host state unknown
 Retbleed:
                          Mitigation; Enhanced IBRS
 Spec rstack overflow: Not affected
                          Mitigation; Speculative Store Bypass disabled via prctl and seccomp
 Spec store bypass:
  Spectre v1:
                          Mitigation; usercopy/swapgs barriers and _user pointer sanitization
                          Mitigation; Enhanced IBRS, IBPB conditional, RSB filling, PBRSB-eIBRS SW sequence
  Spectre v2:
```

2. internsctl memory getinfo

abhinav@DESKTOP-3H1EIRV:/usr/local/bin\$ internsctl memory getinfo						
	total	used	free	shared	buff/cache	available
Mem:	3893228	499820	3034764	3244	358644	3172636
Swap:	1048576	0	1048576			

3. internsctl user create <username>

```
abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl user create vishal
Adding user `vishal' ...
Adding new group `vishal' (1001) ...
Adding new user `vishal' (1001) with group `vishal' ...
Creating home directory `/home/vishal' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for vishal
Enter the new value, or press ENTER for the default
       Full Name []:
        Room Number []:
       Work Phone []:
       Home Phone []:
       Other []:
Is the information correct? [Y/n] y
```

4. internsctl user list

```
abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl user list
root
daemon
bin
sys
sync
games
man
lp
mail
news
uucp
proxy
www-data
backup
list
irc
gnats
nobody
systemd-network
systemd-resolve
messagebus
systemd-timesync
syslog
_apt
uuidd
tcpdump
abhinav
vishal
```

5. internsctl user list -sudo-only

abhinav@DESKTOP-3H1EIRV:/usr/local/bin\$ internsctl user list --sudo-only abhinav

6. internsctl file getinfo <filename>

```
abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl file getinfo internsctl
File: internsctl
Access: -rwxr-xr-x
Size(B): 2993
Owner: root
Modify: 2024-01-03 18:46:51.015430826 +0530
```

7. internsctl file getinfo –options <filename>

```
abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl file getinfo --permissions internsctl -rwxr-xr-x abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl file getinfo --size internsctl 2993 abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl file getinfo --owner internsctl root abhinav@DESKTOP-3H1EIRV:/usr/local/bin$ internsctl file getinfo --last-modified internsctl 2024-01-03 18:46:51.015430826 +0530
```