

Презентация к лабораторной работе №8

Дисциплина: Операционные системы

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Информация

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- https://github.com/eugerne/study_2024-2024_os-intro.git

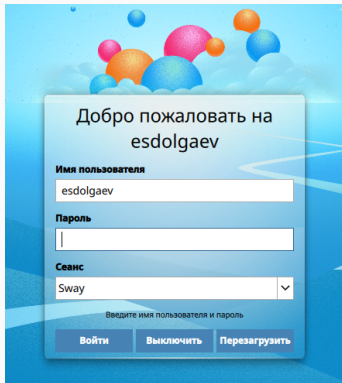
Вводная часть

- Необходимость владения навыками работы с инструментами поиска файлов и фильтрации текстовых данных, а также с методами обслуживания файловых систем.

- Ознакомление с инструментами поиска файлов и фильтрации текстовых данных.
Приобретение практических навыков: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем.

Лабораторная работа

Задание 1



Добро пожаловать на
esdolgaev

Имя пользователя

Пароль

Сеанс
 ▼

Введите имя пользователя и пароль

[Войти](#) [Выключить](#) [Перезагрузить](#)

- Запишем в файл `file.txt` названия файлов, содержащихся в каталоге `/etc` и в домашнем каталоге.

```
root@esdolgaev:~# cd /etc  
root@esdolgaev:/etc# cd  
root@esdolgaev:~# touch file.txt
```

Задание 2

host	ip	port	type	name	value	comment
firefox	192.168.1.101	80	http	httpd.conf	listen 12.34.56.78	
nginx	192.168.1.102	80	http	nginx.conf	worker_processes 4	
apache	192.168.1.103	80	http	httpd.conf	listen 12.34.56.78	
mysql	192.168.1.104	3306	mysql	my.cnf	server-id=1	
redis	192.168.1.105	6379	redis	redis.conf	bind 12.34.56.78	
elasticsearch	192.168.1.106	9200	elasticsearch	elasticsearch.yml	network.host: 12.34.56.78	
mongodb	192.168.1.107	27017	mongodb	mongodb.conf	bind_ip 12.34.56.78	
zookeeper	192.168.1.108	2181	zookeeper	zoo.cfg	server.1=12.34.56.78:2181	
hadoop	192.168.1.109	8020	hadoop	hadoop-yarn.conf	yarn.nodemanager.hostname=12.34.56.78	
spark	192.168.1.110	7077	spark	spark.conf	spark.localIP=12.34.56.78	
kafka	192.168.1.111	9092	kafka	kafka.conf	listeners=PLAINTEXT://12.34.56.78:9092	
flume	192.168.1.112	9973	flume	flume-ng.conf	flume-ng.sources1.type=net	
storm	192.168.1.113	6627	storm	storm.conf	storm.zookeeper.servers=1	
mesos	192.168.1.114	5050	mesos	mesos.conf	mesos.master.listen=12.34.56.78:5050	
kubernetes	192.168.1.115	443	kubernetes	kube-apiserver.conf	apiserver-secure-port=443	
etcd	192.168.1.116	2379	etcd	etcd.conf	listen-peer-url=https://12.34.56.78:2379	
consul	192.168.1.117	8500	consul	consul.conf	server.listen-addr=12.34.56.78	
prometheus	192.168.1.118	9090	prometheus	prometheus.yml	scrape_configs[0].targets[0]=12.34.56.78:9090	
grafana	192.168.1.119	3000	grafana	grafana.ini	[server] http_port=3000	
influxdb	192.168.1.120	8086	influxdb	influxd.conf	bind-address=12.34.56.78:8086	
loki	192.168.1.121	3100	loki	loki.yaml	loki.config.auth_enabled=true	
promtail	192.168.1.122	9091	promtail	promtail.yaml	server.listen-address=12.34.56.78:9091	
otelcol	192.168.1.123	4317	otelcol	otelcol-config.yaml	otelcol.config.endpoint=12.34.56.78:4317	
jaeger	192.168.1.124	6831	jaeger	jaeger.yaml	jaeger-agent.config.listen-addr=12.34.56.78:6831	
zipkin	192.168.1.125	9411	zipkin	zipkin.conf	zipkin.server.host=12.34.56.78	
gRPC	192.168.1.126	50051	gRPC	grpc.conf	server.address=12.34.56.78	
gRPC	192.168.1.127	50052	gRPC	grpc.conf	server.port=50052	
gRPC	192.168.1.128	50053	gRPC	grpc.conf	server.port=50053	
gRPC	192.168.1.129	50054	gRPC	grpc.conf	server.port=50054	
gRPC	192.168.1.130	50055	gRPC	grpc.conf	server.port=50055	
gRPC	192.168.1.131	50056	gRPC	grpc.conf	server.port=50056	
gRPC	192.168.1.132	50057	gRPC	grpc.conf	server.port=50057	
gRPC	192.168.1.133	50058	gRPC	grpc.conf	server.port=50058	
gRPC	192.168.1.134	50059	gRPC	grpc.conf	server.port=50059	
gRPC	192.168.1.135	50060	gRPC	grpc.conf	server.port=50060	
gRPC	192.168.1.136	50061	gRPC	grpc.conf	server.port=50061	
gRPC	192.168.1.137	50062	gRPC	grpc.conf	server.port=50062	
gRPC	192.168.1.138	50063	gRPC	grpc.conf	server.port=50063	
gRPC	192.168.1.139	50064	gRPC	grpc.conf	server.port=50064	
gRPC	192.168.1.140	50065	gRPC	grpc.conf	server.port=50065	
gRPC	192.168.1.141	50066	gRPC	grpc.conf	server.port=50066	
gRPC	192.168.1.142	50067	gRPC	grpc.conf	server.port=50067	
gRPC	192.168.1.143	50068	gRPC	grpc.conf	server.port=50068	
gRPC	192.168.1.144	50069	gRPC	grpc.conf	server.port=50069	
gRPC	192.168.1.145	50070	gRPC	grpc.conf	server.port=50070	
gRPC	192.168.1.146	50071	gRPC	grpc.conf	server.port=50071	
gRPC	192.168.1.147	50072	gRPC	grpc.conf	server.port=50072	
gRPC	192.168.1.148	50073	gRPC	grpc.conf	server.port=50073	
gRPC	192.168.1.149	50074	gRPC	grpc.conf	server.port=50074	
gRPC	192.168.1.150	50075	gRPC	grpc.conf	server.port=50075	
gRPC	192.168.1.151	50076	gRPC	grpc.conf	server.port=50076	
gRPC	192.168.1.152	50077	gRPC	grpc.conf	server.port=50077	
gRPC	192.168.1.153	50078	gRPC	grpc.conf	server.port=50078	
gRPC	192.168.1.154	50079	gRPC	grpc.conf	server.port=50079	
gRPC	192.168.1.155	50080	gRPC	grpc.conf	server.port=50080	
gRPC	192.168.1.156	50081	gRPC	grpc.conf	server.port=50081	
gRPC	192.168.1.157	50082	gRPC	grpc.conf	server.port=50082	
gRPC	192.168.1.158	50083	gRPC	grpc.conf	server.port=50083	
gRPC	192.168.1.159	50084	gRPC	grpc.conf	server.port=50084	
gRPC	192.168.1.160	50085	gRPC	grpc.conf	server.port=50085	
gRPC	192.168.1.161	50086	gRPC	grpc.conf	server.port=50086	
gRPC	192.168.1.162	50087	gRPC	grpc.conf	server.port=50087	
gRPC	192.168.1.163	50088	gRPC	grpc.conf	server.port=50088	
gRPC	192.168.1.164	50089	gRPC	grpc.conf	server.port=50089	
gRPC	192.168.1.165	50090	gRPC	grpc.conf	server.port=50090	
gRPC	192.168.1.166	50091	gRPC	grpc.conf	server.port=50091	
gRPC	192.168.1.167	50092	gRPC	grpc.conf	server.port=50092	
gRPC	192.168.1.168	50093	gRPC	grpc.conf	server.port=50093	
gRPC	192.168.1.169	50094	gRPC	grpc.conf	server.port=50094	
gRPC	192.168.1.170	50095	gRPC	grpc.conf	server.port=50095	
gRPC	192.168.1.171	50096	gRPC	grpc.conf	server.port=50096	
gRPC	192.168.1.172	50097	gRPC	grpc.conf	server.port=50097	
gRPC	192.168.1.173	50098	gRPC	grpc.conf	server.port=50098	
gRPC	192.168.1.174	50099	gRPC	grpc.conf	server.port=50099	
gRPC	192.168.1.175	50100	gRPC	grpc.conf	server.port=50100	
gRPC	192.168.1.176	50101	gRPC	grpc.conf	server.port=50101	
gRPC	192.168.1.177	50102	gRPC	grpc.conf	server.port=50102	
gRPC	192.168.1.178	50103	gRPC	grpc.conf	server.port=50103	
gRPC	192.168.1.179	50104	gRPC	grpc.conf	server.port=50104	
gRPC	192.168.1.180	50105	gRPC	grpc.conf	server.port=50105	
gRPC	192.168.1.181	50106	gRPC	grpc.conf	server.port=50106	
gRPC	192.168.1.182	50107	gRPC	grpc.conf	server.port=50107	
gRPC	192.168.1.183	50108	gRPC	grpc.conf	server.port=50108	
gRPC	192.168.1.184	50109	gRPC	grpc.conf	server.port=50109	
gRPC	192.168.1.185	50110	gRPC	grpc.conf	server.port=50110	
gRPC	192.168.1.186	50111	gRPC	grpc.conf	server.port=50111	
gRPC	192.168.1.187	50112	gRPC	grpc.conf	server.port=50112	
gRPC	192.168.1.188	50113	gRPC	grpc.conf	server.port=50113	
gRPC	192.168.1.189	50114	gRPC	grpc.conf	server.port=50114	
gRPC	192.168.1.190	50115	gRPC	grpc.conf	server.port=50115	
gRPC	192.168.1.191	50116	gRPC	grpc.conf	server.port=50116	
gRPC	192.168.1.192	50117	gRPC	grpc.conf	server.port=50117	
gRPC	192.168.1.193	50118	gRPC	grpc.conf	server.port=50118	
gRPC	192.168.1.194	50119	gRPC	grpc.conf	server.port=50119	
gRPC	192.168.1.195	50120	gRPC	grpc.conf	server.port=50120	
gRPC	192.168.1.196	50121	gRPC	grpc.conf	server.port=50121	
gRPC	192.168.1.197	50122	gRPC	grpc.conf	server.port=50122	
gRPC	192.168.1.198	50123	gRPC	grpc.conf	server.port=50123	
gRPC	192.168.1.199	50124	gRPC	grpc.conf	server.port=50124	
gRPC	192.168.1.200	50125	gRPC	grpc.conf	server.port=50125	
gRPC	192.168.1.201	50126	gRPC	grpc.conf	server.port=50126	
gRPC	192.168.1.202	50127	gRPC	grpc.conf	server.port=50127	
gRPC	192.168.1.203	50128	gRPC	grpc.conf	server.port=50128	
gRPC	192.168.1.204	50129	gRPC	grpc.conf	server.port=50129	
gRPC	192.168.1.205	50130	gRPC	grpc.conf	server.port=50130	
gRPC	192.168.1.206	50131	gRPC	grpc.conf	server.port=50131	
gRPC	192.168.1.207	50132	gRPC	grpc.conf	server.port=50132	
gRPC	192.168.1.208	50133	gRPC	grpc.conf	server.port=50133	
gRPC	192.168.1.209	50134	gRPC	grpc.conf	server.port=50134	
gRPC	192.168.1.210	50135	gRPC	grpc.conf	server.port=50135	
gRPC	192.168.1.211	50136	gRPC	grpc.conf	server.port=50136	
gRPC	192.168.1.212	50137	gRPC	grpc.conf	server.port=50137	
gRPC	192.168.1.213	50138	gRPC	grpc.conf	server.port=50138	
gRPC	192.168.1.214	50139	gRPC	grpc.conf	server.port=50139	
gRPC	192.168.1.215	50140	gRPC	grpc.conf	server.port=50140	
gRPC	192.168.1.216	50141	gRPC	grpc.conf	server.port=50141	
gRPC	192.168.1.217	50142	gRPC	grpc.conf	server.port=50142	
gRPC	192.168.1.218	50143	gRPC	grpc.conf	server.port=50143	
gRPC	192.168.1.219	50144	gRPC	grpc.conf	server.port=50144	
gRPC	192.168.1.220	50145	gRPC	grpc.conf	server.port=50145	
gRPC	192.168.1.221	50146	gRPC	grpc.conf	server.port=50146	
gRPC	192.168.1.222	50147	gRPC	grpc.conf	server.port=50147	
gRPC	192.168.1.223	50148	gRPC	grpc.conf	server.port=50148	
gRPC	192.168.1.224	50149	gRPC	grpc.conf	server.port=50149	
gRPC	192.168.1.225	50150	gRPC	grpc.conf	server.port=50150	
gRPC	192.168.1.226	50151	gRPC	grpc.conf	server.port=50151	
gRPC	192.168.1.227	50152	gRPC	grpc.conf	server.port=50152	
gRPC	192.168.1.228	50153	gRPC	grpc.conf	server.port=50153	
gRPC	192.168.1.229	50154	gRPC	grpc.conf	server.port=50154	
gRPC	192.168.1.230	50155	gRPC	grpc.conf	server.port=50155	
gRPC	192.168.1.231	50156	gRPC	grpc.conf	server.port=50156	
gRPC	192.168.1.232	50157	gRPC	grpc.conf	server.port=50157	
gRPC	192.168.1.233	50158	gRPC	grpc.conf	server.port=50158	
gRPC	192.168.1.234	50159	gRPC	grpc.conf	server.port=50159	
gRPC	192.168.1.235	50160	gRPC	grpc.conf	server.port=50160	
gRPC	192.168.1.236	50161	gRPC	grpc.conf	server.port=50161	
gRPC	192.168.1.237	50162	gRPC	grpc.conf	server.port=50162	
gRPC	192.168.1.238	50163	gRPC	grpc.conf	server.port=50163	
gRPC	192.168.1.239	50164	gRPC	grpc.conf	server.port=50164	
gRPC	192.168.1.240	50165	gRPC	grpc.conf	server.port=50165	
gRPC	192.168.1.241	50166	gRPC	grpc.conf	server.port=50166	
gRPC	192.168.1.242	50167	gRPC	grpc.conf	server.port=50167	
gRPC	192.168.1.243	50168	gRPC	grpc.conf	server.port=50168	
gRPC	192.168.1.244	50169	gRPC	grpc.conf	server.port=50169	
gRPC	192.168.1.245	50170	gRPC	grpc.conf	server.port=50170	
gRPC	192.168.1.246	50171	gRPC	grpc.conf	server.port=50171	
gRPC	192.168.1.247	50172	gRPC	grpc.conf	server.port=50172	
gRPC	192.168.1.248	50173	gRPC	grpc.conf	server.port=50173	
gRPC	192.168.1.249	50174	gRPC	grpc.conf	server.port=50174	
gRPC	192.168.1.250	50175	gRPC	grpc.conf	server.port=50175	
gRPC	192.168.1.251	50176	gRPC	grpc.conf	server.port=50176	
gRPC	192.168.1.252	50177	gRPC	grpc.conf	server.port=50177	
gRPC	192.168.1.253	50178	gRPC	grpc.conf	server.port=50178	
gRPC	192.168.1.254	50179	gRPC	grpc.conf	server.port=50179	
gRPC	192.168.1.255	50180	gRPC	grpc.conf	server.port=50180	
gRPC	192.168.1.256	50181	gRPC	grpc.conf	server.port=50181	
gRPC	192.168.1.257	50182	gRPC	grpc.conf	server.port=50182	
gRPC	192.168.1.258	50183	gRPC	grpc.conf	server.port=50183	
gRPC	192.168.1.259	50184	gRPC	grpc.conf	server.port=50184	
gRPC	192.168.1.260	50185	gRPC	grpc.conf	server.port=50185	
gRPC	192.168.1.261	50186	gRPC	grpc.conf	server.port=50186	
gRPC	192.168.1.262	50187	gRPC	grpc.conf	server.port=50187	
gRPC	192.168.1.263	50188	gRPC	grpc.conf	server.port=50188	
gRPC	192.168.1.264	50189	gRPC	grpc.conf	server.port=50189	
gRPC	192.168.1.265	50190	gRPC	grpc.conf	server.port=50190	
gRPC	192.168.1.266	50191	gRPC	grpc.conf	server.port=50191	
gRPC	192.168.1.267	50192	gRPC	grpc.conf	server.port=50192	
gRPC	192.168.1.268	50193	gRPC	grpc.conf	server.port=50193	
gRPC	192.168.1.269	50194	gRPC	grpc.conf	server.port=50194	
gRPC	192.168.1.270	50195	gRPC	grpc.conf	server.port=50195	
gRPC	192.168.1.271	50196	gRPC	grpc.conf	server.port=50196	
gRPC	192.168.1.272	50197	gRPC	grpc.conf	server.port=50197	
gRPC	192.168.1.273	50198	gRPC	grpc.conf	server.port=50198	
gRPC	192.168.1.274	50199	gRPC	grpc.conf	server.port=50199	

Выведем имена всех файлов из `file.txt`, имеющих расширение `.conf`, после чего запишем их в новый текстовый файл `conf.txt`.

Задание 3

```
root@esdolgaev:~# grep .conf file.txt
abrt                depmod.d           grub2-efi.cfg      libibverbs.d      nsswitch.conf      resolv.conf        swid
adjtime             dhcp               grub.d             libnl              nvme                rpc                 sysconfig
aliases            DIR_COLORS         gshadow            liboath            openal              rpm                 sysctl.conf
alsa               DIR_COLORS.lightbicolor gshadow-           libreport          openldap            rsyncd.conf        sysctl.d
alternatives       dnf               gss                libssh             opensc.conf         rsyslog.conf       systemd
anaconda           dnsmasq.conf       gssproxy           locale.conf        opensec-x86_64.conf rsyslog.d          system-release
anacrontab         dnsmasq.d          host.conf          localtime          openvpn             rwtab.d            system-release-cpe
asound.conf        dracut.conf        hostname           login.defs         opt                 samba               terminfo
at.deny            dracut.conf.d      hosts             logrotate.conf     os-release          sasl2              texlive
audit             eac               idmapd.conf        logrotate.d        ostree              sddm               tmpfiles.d
authselect         egl              ImageMagick-7      lvm                PackageKit          sddm.conf          tpm2-tss
avahi              environment        imv.conf           machine-id         pam.d              sddm.conf.d        Trolltech.conf
bashrc             exports           inputrc            mailcap            passim.conf         selinux            ts.conf
bindresvport.blacklist exports.d           ipsec.conf         makedumpfile.conf.sample passwd              services           udev
binfmt.d           favicon.png        ipsec.d            man_db.conf        passwd-             sestatus.conf      udisks2
bluetooth          fedora-release    ipsec.secrets      mc                 passwdqc.conf       setroubleshoot    unbound
chrony.conf        filesystems        issue              mcelog             pkcs11              sgml               updatedb.conf
credstore          firewalld         issue.d            mke2fs.conf        pkcs11              shadow-            usb_modeswitch.conf
credstore.encrypted flexiblasrc        issue.d            modprobe.d         pkgconfig           shells             vconsole.conf
cron.deny          fprintd.conf      jvm                motd.d             pm                  sos                vmware-tools
cron.monthly       fuse.conf         kdump             mtab               popt.d             ssh                vnc
crontab            fwupd            kdump.conf         mtools.conf        ppp                 ssl                vulkan
cron.weekly        gcrypt            kernel             nano               printcap            sssd              whois.conf
crypttab           gdbinit.d         keyutils           ndctl.conf.d       profile.d            subgid             wpa_supplicant
csh.cshrc          geoclue           krb5.conf          netconfig           protocols            subuid             X11
csh.login          glvnd             krb5.conf.d        NetworkManager     pulse               subuid             xattr.conf
cupshelpers        GREP_COLORS       ld.so.cache        nfs.conf            rc.d                 sudo.conf          xl2tpd
dbus-1             groff             ld.so.conf         nfsmount.conf       reader.conf.d        sudoers            xml
dconf              group            ld.so.conf.d       nftables            redhat-release      sudoers.d          yum.repos.d
debuginfod         group-           libaudit.conf      nilfs_cleaner.d.conf request-key.conf     sway
```

```
root@esdolgaev:~# grep .conf file.txt > conf.txt
```

Задание 3

root						
/root/conf.txt						
abrt	depmod.d	grub2-efi.cfg	libibverbs.d	nsswitch.conf	resolv.conf	swid
adjtime	dhcp	grub.d	libnl	nvme	rpc	sysconfig
aliases	DIR_COLORS	gshadow	liboath	openal	rpm	sysctl.conf
alsa	DIR_COLORS.lightbgcolor	gshadow-	libreport	openldap	rsyncd.conf	sysctl.d
alternatives	dnf	gss	libssh	opensc.conf	rsyslog.conf	systemd
anaconda	dnsmasq.conf	gssproxy	locale.conf	opensc-x86_64.conf	rsyslog.d	system-release
anacrontab	dnsmasq.d	host.conf	localtime	openvpn	rtab.d	system-release-cpe
asound.conf	dracut.conf	hostname	login.defs	opt	samba	terminfo
at.deny	dracut.conf.d	hosts	logrotate.conf	os-release	sas12	texlive
audit	eac	idmapd.conf	logrotate.d	ostree	sddm	tmpfiles.d
authselect	egl	ImageMagick-7	lvm	PackageKit	sddm.conf	tpm2-tss
avahi	environment	imv_config	machine-id	pam.d	sddm.conf.d	Trolltech.conf
bashrc	exports	inputrc	mailcap	passim.conf	selinux	ts.conf
bindresvport.blacklist	exports.d	ipp-usb	makedumpfile.conf.sample	passwd	services	udev
binfmt.d	favicon.png	ipsec.conf	man_db.conf	passwd-	sestatus.conf	udisks2
bluetooth	fedora-release	ipsec.d	mc	passwdqc.conf	setroubleshoot	unbound
chrony.conf	filesystems	ipsec.secrets	mcelog	pdfpcrc	sgml	updatedb.conf
credstore	firewalld	issue	mke2fs.conf	pkcs11	shadow-	usb_modeswitch.conf
credstore.encrypted	flexiblasrc	issue.d	modprobe.d	pkgconfig	shells	vconsole.conf
cron.deny	fprintd.conf	jvm	motd.d	pm	sos	vmware-tools
cron.monthly	fuse.conf	kdump	mtab	popt.d	ssh	vpnc
crontab	fwupd	kdump.conf	mttools.conf	ppp	ssl	vulkan
cron.weekly	gcrypt	kernel	nanorc	printcap	sssd	wholis.conf
crypttab	gdbinit.d	keyutils	ndctl.conf.d	profile.d	subgid	wpa_supplicant
csh.cshrc	geoclue	krb5.conf	netconfig	protocols	subgid-	X11
csh.login	glvnd	krb5.conf.d	NetworkManager	pulse	subuid	xattr.conf
cupshelpers	GREP_COLORS	ld.so.cache	nfs.conf	rc.d	sudo.conf	x12tpd
dbus-1	groff	ld.so.conf	nfsmount.conf	reader.conf.d	sudoers	xml
dconf	group	ld.so.conf.d	nftables	redhat-release	sudoers.d	yum.repos.d
debuginfod	group-	libaudit.conf	nilfs_cleaner.conf	request-key.conf	sway	

Определим, какие файлы в вашем домашнем каталоге имеют имена, начинавшиеся с символа с.

Задание 4

```
-----
/root/.git/objects/88/c6bc486bf88cae373d0347afdc8df6b8e7eba
/root/.git/objects/11/c159200a71fbb9751cc1f3f3f33f3826cbac8f
/root/.git/objects/b8/c4aca394a7a3f467f977c2e66a746570213e80
/root/.git/objects/b8/c22c9e1fcc43e9a29226d133e21b7e3fd133
/root/.git/objects/b8/c84de25c2837e5314663634e5e60c50c7b1b8b
/root/.git/objects/b8/c6e74867a446fa92a5c11abf08a4c3c0ae5df
/root/.git/objects/c2
/root/.git/objects/c2/c0868b66c86a8f9625d96a0f04d8cfc3cane
/root/.git/objects/6a/c33b1408178b31bf4e83ee7375661f38frc5
/root/.git/objects/6a/c53200c6db21dc47e939ff226d41a9472d876
/root/.git/objects/85/c6934757761e08588a8f0c3c351b6rff6dae5
/root/.git/objects/a5/c6b6b18ea239230b9e6a8f6418598de7f9eb
/root/.git/objects/1f/c8aa77bab1e248acc395a637c52070df1a338
/root/.git/objects/1f/c2f34b18065e70631aaddde13401ae4561a2f9
/root/.git/objects/41/cfd79f99c28d9f82c4422a75ea358e8b528ebe
/root/.git/objects/41/ca06618cc8dc6e7229f6a304e49438a949476
/root/.git/objects/17/cfb1065befda73fe188ba9034725bc76ccc891
/root/.git/objects/17/ca670eb7f34987b331770e947626404f34c
/root/.git/objects/ef/c1247059d126a6809c23b7dc590944c59a927c
/root/.git/objects/ef/c21bc2567a0b09c5412fa33d8ca707f7245e
/root/.git/objects/31/c2c5f79decb9eba0459aa80b1ae448c223dcf
/root/.git/objects/31/c0711ab50b37e1e8fbb1b61a1bd19a4dbf220
/root/.git/objects/5b/c192b138682cc18c08530f4fcc806922c863b2
/root/.git/objects/5b/c64d99cf3737f7e88c5b0f04ab7df998c3caa2
/root/.git/objects/69/ced25258f406053e1e2036181bdad904653f3
/root/.git/objects/69/c1286f7714c7c2aa3981e1659b133fba5a371
/root/.git/objects/69/c767bfff1ab0c8a70a4688834f87f7904499611
/root/.git/objects/5d/c4dc05ef31e8ca883bfa8a8cea3ba04cft69f5
/root/.git/objects/63/cfe6802ac81e59ac76a6497f6677a0b17b450
/root/.git/objects/63/ca97ec28ab7e92065ee9d7c786de0c666ee3
/root/.git/objects/63/cabfaa0b3dd404bb1415747d89f9db19cd27a
/root/.git/objects/63/c055082985b02590c1f30f5873e93828363cb
/root/.git/objects/63/cb048d4552aa8d85689558a67f6b4135e6cbf
/root/.git/objects/c9
/root/.git/objects/c9/cffda1ee34b486c23e1e7c374d0947ce52cf7
/root/.git/objects/c9/ca3f02f048298cd2b2faff3740aaae6ea098e
/root/.git/objects/c9/c786a9e60816a9b727a3a2a494cc7c909341b
/root/.git/objects/c9/ca915ba9f895f680ffab701d308a365f4051d
/root/.git/objects/c9/c520b296b61fbbfcc8e018f9aaae0f46a7fcc8
/root/.git/objects/bf/c39345526afe2f8c1d52eabf5a25b7959537f
/root/.git/objects/bf/c6aadea253bedbe4687c4ca39ac78f197e4b
/root/.git/objects/bf/cfc5bd7dd43116932c9fe1f721ee0f9d1bc5e1
/root/.git/objects/bf/c7c8cc37ee39c3aff444d2ac156955dbc4ad
/root/.git/objects/bf/c346285005d739587739a2f005758cb1da7876
/root/.git/objects/9c/c8be43eb72ca93f0f8f0db434ac577d13bb0c1db
/root/.git/objects/94/cbf297aa2831512acd5d3a525f7b4f3c8a722
/root/.git/objects/27/c48109b4f368f54c463884f0a05347672ba4e0
/root/.git/config
/root/.git/extended/.git/hooks/commit-msg.sample
/root/.git/extended/.git/config
/root/.password-store/.git/hooks/commit-msg.sample
/root/.password-store/.git/objects/cd
/root/.password-store/.git/config
/root/.bin/chezmoi
/root/.conf.txt
root@esdolgayev:~# find /root -name ".c"
root@esdolgayev:~#
```



```
root@esdolgaev:~# ls -a | grep c*  
conf.txt  
root@esdolgaev:~#  
[0] 0:sudo*
```

Выведем на экран (по странично) имена файлов из каталога `/etc`, начинающиеся с символа `h`.

```
root@esdolgaev:~# find /etc -name "h*" | more
/etc/avahi/hosts
/etc/firewalld/helpers
/etc/libibverbs.d/hfi1verbs.driver
/etc/libibverbs.d/hns.driver
/etc/nvme/hostnqn
/etc/nvme/hostid
/etc/udev/hwdb.d
/etc/udev/hwdb.bin
/etc/host.conf
/etc/hosts
/etc/hostname
```

Запустить в фоновом режиме процесс, который будет записывать в файл `~/logfile` файлы, имена которых начинаются с `log`. Удалим `logfile`.

```
root@esdolgaev:~# find ~ -name "log*" > logfile &  
[1] 1597  
root@esdolgaev:~# rm logfile  
[1]+  Завершён      find ~ -name "log*" > logfile  
root@esdolgaev:~#
```

Запустим из консоли в фоновом режиме редактор gedit (я запускал nano).

Задание 8

```
root@esdolgaev:~# nano &  
[1] 2057  
root@esdolgaev:~#
```


Определим идентификатор процесса `gedit(nano)`, используя команду `ps`, конвейер и фильтр `grep`.

```
root@esdolgaev:~# ps aux | grep nano
root      2057  0.0  0.2 232764 4628 pts/2    T   20:29   0:00 nano
root      2194  0.0  0.1 230364 2392 pts/2    S+  20:31   0:00 grep --color=auto nano
```

Прочитаем справку (man) команды kill, после чего используем её для завершения процесса gedit.

```
kill - terminate a process

SYNOPSIS
kill [-signal|-s signal|-p] [-q value] [-w] [--timeout milliseconds signal] [--pid/name...]
kill -l [pattern] | -L

DESCRIPTION
The command kill sends the specified signal to the specified processes or process groups.

If no signal is specified, the TERM signal is sent. The default action for this signal is to terminate the process. This signal should be used in preference to the KILL signal (number 9), since a process may install a handler for the TERM signal in order to perform clean-up steps before terminating in an orderly fashion. If a process does not terminate after a TERM signal has been sent, then the KILL signal may be used; be aware that the latter signal cannot be caught, and so does not give the target process the opportunity to perform any clean-up before terminating.

Most modern shells have a builtin kill command, with a usage rather similar to that of the command described here. The --all, --pid, and --queue options, and the possibility to specify processes by command name, are local extensions.

If signal is 0, then no actual signal is sent, but error checking is still performed.

ARGUMENTS
The list of processes to be signaled can be a mixture of names and PIDs.

pid
Each pid can be expressed in one of the following ways:

0
where p is larger than 0. The process with PID p is signaled.

0
All processes in the current process group are signaled.

-1
All processes with a PID larger than 1 are signaled.

-p
where p is larger than 1. All processes in process group p are signaled. When an argument of the form '-n' is given, and it is meant to denote a process group, either a signal must be specified first, or the argument must be preceded by a '-' option, otherwise it will be taken as the signal to send.

name
All processes invoked using this name will be signaled.

OPTIONS
-s, --signal signal
The signal to send. It may be given as a name or a number.

-l, --list [pattern]
Print a list of signal names, or convert the given signal number to a name. The signals can be found in /usr/include/sys/signal.h.

-L, --table
Similar to -l, but it will print signal names and their corresponding numbers.

-a, --all
Do not restrict the command-name-to-PID conversion to processes with the same UID as the present process.

-p, --pid
Only print the process ID (PID) of the named processes, do not send any signals.

Normal page kill(1) 20w 4/14 40% (press h for help or q to quit)
```

Выполним команды `df` и `du`, предварительно получив более подробную информацию об этих командах, с помощью команды `man`.

Задание 11

```
du(1)                                User Commands                                du(1)

NAME
du - estimate file space usage

SYNOPSIS
du [OPTION]... [FILE]...
du [OPTION]... --filesk-from=F

DESCRIPTION
Summarize device usage of the set of FILES, recursively for directories.
Mandatory arguments to long options are mandatory for short options too.

-b, --null
    end each output line with NUL, not newline

-a, --all
    write counts for all files, not just directories

--apparent-size
    print apparent sizes rather than device usage; although the apparent size is usually smaller, it may be larger due to holes in ("sparse") files, internal fragmentation, indirect blocks, and the like

-B, --block-size=SIZE
    scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see SIZE format below

-b, --bytes
    equivalent to '--apparent-size -block-size=1'

-c, --total
    produce a grand total

-d, --dereference-args
    dereference only symlinks that are listed on the command line

-E, --max-depth=N
    print the total for a directory (or file, with --all) only if it is N or fewer levels below the command line argument; --max-depth=0 is the same as --summarize

--filesk-from=F
    summarize device usage of the NUL-terminated file names specified in file F; if F is -, then read names from standard input

-H, --dereference-args (-d)
    equivalent to '--dereference-args (-d)'

-h, --human-readable
    print sizes in human readable format (e.g., 1K 234M 2G)

--inode
    list inode usage information instead of block usage

-k, --block-size=K
    like --block-size=1K

-L, --dereference
    dereference all symbolic links

-l, --count-links
    Normal page du(1) line 1 (press h for help or q to quit)
```

Задание 11

[illegible]

Задание 11

```

[2] [1] User Commands [2] [1]
NAME
df - report file system space usage

SYNOPSIS
df [OPTION]... [FILE]...

DESCRIPTION
This manual page documents the GNU version of df. df displays the amount of space available on the file system containing each file name argument. If no file name is given, the space available on all currently mounted file systems is shown. Space is shown in 1K blocks by default, unless the environment variable POSIXLY_CORRECT is set, in which case 512-byte blocks are used.

If an argument is the absolute file name of a device node containing a mounted file system, df shows the space available on that file system rather than on the file system containing the device node. This version of df cannot show the space available on unmounted file systems, because in most kinds of systems doing so requires non-portable intimate knowledge of file system structures.

OPTIONS
Show information about the file system on which each FILE resides, or all file systems by default.

Mandatory arguments to long options are mandatory for short options too.

-A, --all
    Include pseudo, duplicate, inaccessible file systems.

-B, --block-size=SIZE
    Scale sizes by SIZE before printing them; e.g., '-BM' prints sizes in units of 1,048,576 bytes; see SIZE format below.

--direct
    Show statistics for a file instead of mount point.

-h, --human-readable
    print sizes in powers of 1024 (e.g., 1023M)

-M, --si
    print sizes in powers of 1000 (e.g., 1.3G)

-l, --inodes
    list inode information instead of block usage

-k, --block-size=K
    like --block-size=1k

-L, --local
    limit listing to local file systems

--no-sync
    do not invoke sync before getting usage info (default)

--output=FIELD_LIST
    use the output format defined by FIELD_LIST, or print all fields if FIELD_LIST is omitted.

-P, --portability
    use the POSIX output format

--sync
    Invoke sync before getting usage info

--total
    Normal page df(1) line 1 (press h for help or q to quit)

```



```

root@esdolgaev:~# df
Файловая система 1K-блоков  Иستخدمано  Доступно  Иستخدمано%  Смонтировано в
/dev/vda3          61249536    10482312  49650120      18% /
devtmpfs           4096         0         4096          0% /dev
tmpfs              998920       7460     991460        1% /dev/shm
efivarfs           256          21        231          9% /sys/firmware/efi/efivars
tmpfs              399572       1184     398388        1% /run
tmpfs              1024         0        1024          0% /run/credentials/systemd-journald.service
tmpfs              1024         0        1024          0% /run/credentials/systemd-udev-load-credentials.service
tmpfs              1024         0        1024          0% /run/credentials/systemd-network-generator.service
tmpfs              1024         0        1024          0% /run/credentials/systemd-sysctl.service
tmpfs              1024         0        1024          0% /run/credentials/systemd-tmpfiles-setup-dev-early.service
tmpfs              1024         0        1024          0% /run/credentials/systemd-tmpfiles-setup-dev.service
tmpfs              998924        4     998920        1% /tmp
/dev/vda3          61249536    10482312  49650120      18% /home
/dev/vda2          996780       299952    628016       33% /boot
/dev/vda1          613160       19808     593352        4% /boot/efi
tmpfs              1024         0        1024          0% /run/credentials/systemd-tmpfiles-setup.service
tmpfs              1024         0        1024          0% /run/credentials/systemd-vconsole-setup.service
tmpfs              1024         0        1024          0% /run/credentials/systemd-resolved.service
tmpfs              199784        96     199688        1% /run/user/1000
tmpfs              199784        64     199720        1% /run/user/0
root@esdolgaev:~#

```

Воспользовавшись справкой команды `find`, выведем имена всех директорий, имеющих в вашем домашнем каталоге.

Задание 12

```
/root/git-extended/ git/refs
/root/git-extended/ git/refs/heads
/root/git-extended/ git/refs/tags
/root/git-extended/ git/objects
/root/git-extended/ git/objects/pack
/root/git-extended/ git/objects/info
/root/git-extended/ git/objects/0d
/root/git-extended/ git/objects/98
/root/git-extended/ git/objects/9a
/root/git-extended/ git/logs
/root/git-extended/ git/logs/refs
/root/git-extended/ git/logs/refs/heads
/root/ password-store
/root/ password-store/ git
/root/ password-store/ git/hooks
/root/ password-store/ git/info
/root/ password-store/ git/refs
/root/ password-store/ git/refs/heads
/root/ password-store/ git/refs/tags
/root/ password-store/ git/objects
/root/ password-store/ git/objects/pack
/root/ password-store/ git/objects/info
/root/ password-store/ git/objects/f6
/root/ password-store/ git/objects/4e
/root/ password-store/ git/objects/19
/root/ password-store/ git/objects/f9
/root/ password-store/ git/objects/cd
/root/ password-store/ git/objects/14
/root/ password-store/ git/objects/70
/root/ password-store/ git/objects/25
/root/ password-store/ git/objects/3b
/root/ password-store/ git/objects/1d
/root/ password-store/ git/objects/da
/root/ password-store/ git/objects/a4
/root/ password-store/ git/objects/ed
/root/ password-store/ git/objects/94
/root/ password-store/ git/objects/3c
/root/ password-store/ git/objects/8a
/root/ password-store/ git/objects/2b
/root/ password-store/ git/logs
/root/ password-store/ git/logs/refs
/root/ password-store/ git/logs/refs/heads
/root/ password-store/passwords
/root/bin
/root/ bashrc.d
/root/monthly
/root/reports
/root/reports/monthly
/root/sky_places
/root/sky_places/equipment
/root/sky_places/plans
/root/ex3
/root/ex3/australia
/root/ex3/play
/root/ex3/play/games
root@esdolgayev:~#
```

- Таким образом, в ходе выполнения лабораторной работы я ознакомлся с инструментами поиска файлов и фильтрации текстовых данных. Приобрёл практические навыки: по управлению процессами (и заданиями), по проверке использования диска и обслуживанию файловых систем.