

# Kaspersky Security Center 14

Служба обеспечения совместимости <[gost@basealt.ru](mailto:gost@basealt.ru)>, Максим Князев

v1.0 10.02.2023

## Дистрибутивы

Установка производилась на образе ОС: **Альт Сервер 10**

```
Linux host-15 5.10.82-std-def-alt1 #1  
SMP Fri Dec 3 14:49:25 UTC 2021 x86_64 GNU/Linux
```

Kaspersky Security Center дистрибутив:

```
ksc64-*.x86_64.rpm
```

Kaspersky Security Center web console дистрибутив:

```
ksc-web-console-*.x86_64.rpm
```

## Установка Kaspersky Security Center

1.0 Установка любой программы выполняется на чистой системе только после обновления системы и ядра до актуального состояния:

```
$ su-  
# apt-get update  
# apt-get dist-upgrade  
# update-kernel [-t std-def|un-def]  
# reboot
```

1.1 Устанавливаем пакет mariadb-server

```
# apt-get install mariadb-server
```

1.2 Настроить рекомендуемые параметры для оптимальной работы СУБД (включить поддержку InnoDB и хранилища MEMORY, а также поддержку кодировок UTF-8 и UCS-2), добавив следующие строки в файл /etc/my.cnf после [client-server]:

```
[mysqld]
sort_buffer_size=10M
join_buffer_size=100M
join_buffer_space_limit=300M
join_cache_level=8
tmp_table_size=512M
max_heap_table_size=512M
key_buffer_size=200M
innodb_buffer_pool_size=1GB
innodb_thread_concurrency=20
innodb_flush_log_at_trx_commit=0
innodb_lock_wait_timeout=300
max_allowed_packet=32M
max_connections=151
```

1.3 В файле `/etc/my.cnf.d/server.cnf` закомментировать строку `skip-networking`:

1.4 Включить сервер MariaDB с добавлением в автозагрузку:

```
# systemctl enable --now mysqld.service
```

1.5 Установить пароль пользователя СУБД root:

```
# mysql
MariaDB [(none)]> ALTER USER 'root'@'localhost' IDENTIFIED BY '1';
MariaDB [(none)]> exit
```

1.5.1. Если при выполнении вышеописанных запросов в БД у Вас возникает ошибка:

```
ERROR 1728 (HY000):Cannot load from mysql.proc. The table is probably corrupted
```

1.5.2. Необходимо обновить `mysql` и повторить пункт 1.5:

```
# control mysqld-chroot disabled
# systemctl restart mysqld
# mysql_upgrade -u root -p1
# control mysqld-chroot enabled
# systemctl restart mysqld
```

1.6 Создать группу `kladmins`, пользователя `ksc` и добавить созданного пользователя в созданную группу:

```
# adduser ksc
# groupadd kladmins
```

```
# gpasswd -a ksc kladmins
# usermod -g kladmins ksc
```

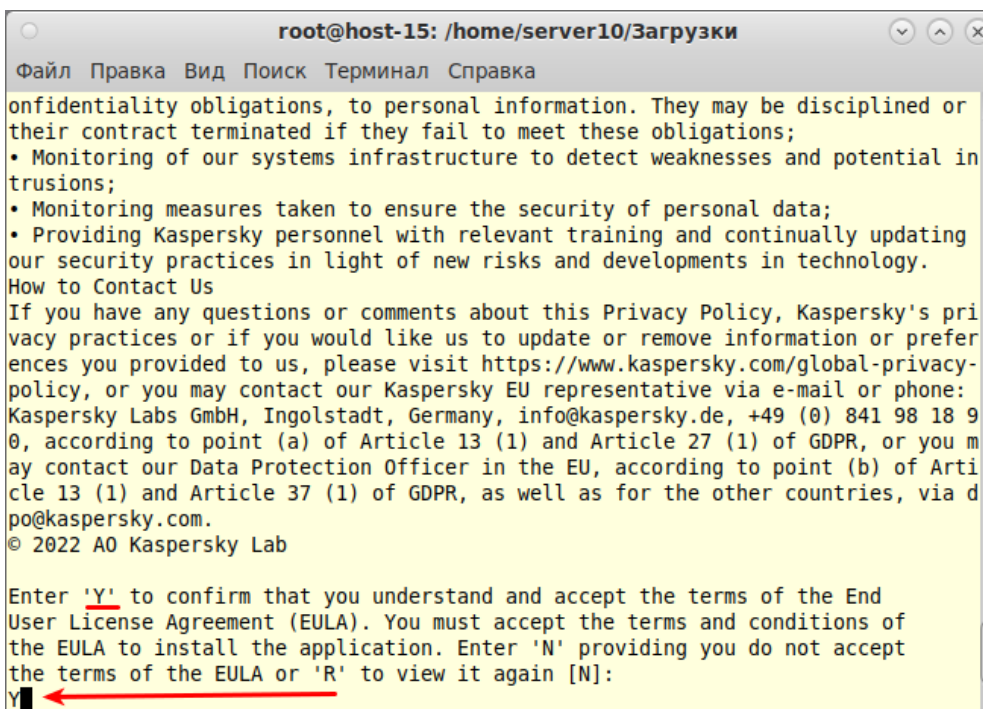
1.7 Установка пакета KSC. Переходим в папку со скаченным дистрибутивом KSC через консоль и командой устанавливаем:

```
# rpm -i ksc64-*.x86_64.rpm
```

```
[root@host-15 Загрузки]# rpm -i ksc64-14.0.0-4260.x86_64.rpm
Pre install section: 14.0.0-4260
Stopping klactprx_srv...
Stopping klnagent_srv...
Stopping kladminserver srv...
Post install section: 14.0.0-4260
Kaspersky Security Center has been installed successfully but needs to be
properly configured before using.
Please run /opt/kaspersky/ksc64/lib/bin/setup/postinstall.pl script by
yourself to configure installed software.
[root@host-15 Загрузки]#
```

1.8 Запускаем скрипт настройки KSC, принимаем лицензионное соглашение посредством нажатия **Y** и клавиши **ENTER** (повторить дважды):

```
/opt/kaspersky/ksc64/lib/bin/setup/postinstall.pl
```



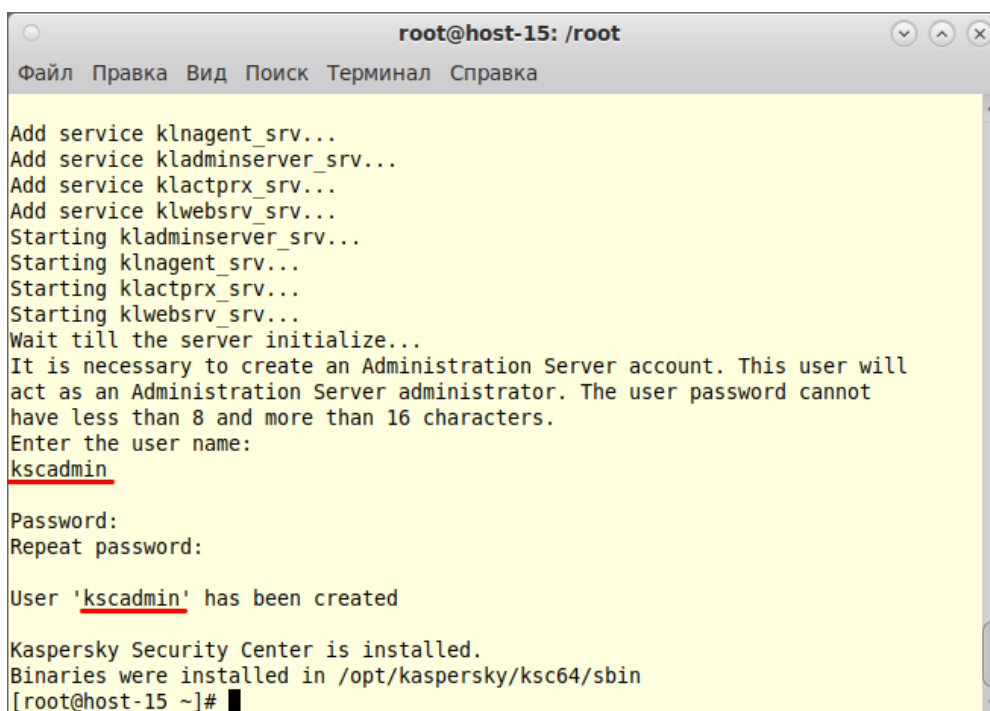
```
root@host-15: /home/server10/Загрузки
Файл Правка Вид Поиск Терминал Справка
confidentiality obligations, to personal information. They may be disciplined or
their contract terminated if they fail to meet these obligations;
• Monitoring of our systems infrastructure to detect weaknesses and potential in
trusions;
• Monitoring measures taken to ensure the security of personal data;
• Providing Kaspersky personnel with relevant training and continually updating
our security practices in light of new risks and developments in technology.
How to Contact Us
If you have any questions or comments about this Privacy Policy, Kaspersky's pri
vacy practices or if you would like us to update or remove information or prefer
ences you provided to us, please visit https://www.kaspersky.com/global-privacy-policy,
or you may contact our Kaspersky EU representative via e-mail or phone:
Kaspersky Labs GmbH, Ingolstadt, Germany, info@kaspersky.de, +49 (0) 841 98 18 9
0, according to point (a) of Article 13 (1) and Article 27 (1) of GDPR, or you m
ay contact our Data Protection Officer in the EU, according to point (b) of Arti
cle 13 (1) and Article 37 (1) of GDPR, as well as for the other countries, via d
po@kaspersky.com.
© 2022 AO Kaspersky Lab

Enter 'Y' to confirm that you understand and accept the terms of the End
User License Agreement (EULA). You must accept the terms and conditions of
the EULA to install the application. Enter 'N' providing you do not accept
the terms of the EULA or 'R' to view it again [N]:
Y
```

1.9 Настройка Сервера:

```
Выбрать режим установки Сервера: 1) Standard
Указать IP-адрес текущей машины: <ip>
Указать порт Сервера: 14000
Указать SSL порт Сервера: 13000
Выбрать кол-во управляемых устройств: 1) 1 to 100 networked devices
```

Ввести имя группы безопасности для служб: kladmins  
Ввести имя учетной записи для запуска службы Сервера администрирования: ksc  
Ввести имя учетной записи для запуска других служб: ksc  
Указать адрес сервера СУБД: localhost  
Указать порт сервера СУБД: 3306  
Указать имя базы данных: kscdb  
Указать пользователя базы данных: root  
Указать пароль пользователя базы данных: 1  
Указать имя администратора Сервера администрирования: kscadmin  
Указать пароль администратора Сервера администрирования: Admin!@#



```
root@host-15: /root
Файл Правка Вид Поиск Терминал Справка
Add service klnagent_srv...
Add service kladminserver_srv...
Add service klactprx_srv...
Add service klwebsrv_srv...
Starting kladminserver_srv...
Starting klnagent_srv...
Starting klactprx_srv...
Starting klwebsrv_srv...
Wait till the server initialize...
It is necessary to create an Administration Server account. This user will
act as an Administration Server administrator. The user password cannot
have less than 8 and more than 16 characters.
Enter the user name:
kscadmin
Password:
Repeat password:
User 'kscadmin' has been created
Kaspersky Security Center is installed.
Binaries were installed in /opt/kaspersky/ksc64/sbin
[root@host-15 ~]#
```

### 1.10 Проверяем статус служб KSC:

```
# systemctl status klnagent_srv.service
# systemctl status kladminserver_srv.service
# systemctl status klactprx_srv.service
# systemctl status klwebsrv_srv.service
```

```
root@host-15: /root
Файл Правка Вид Поиск Терминал Справка
Kaspersky Security Center is installed.
Binaries were installed in /opt/kaspersky/ksc64/sbin
[root@host-15 ~]# systemctl status klnagent_srv.service
● klnagent_srv.service - Kaspersky Network Agent.
  Loaded: loaded (/lib/systemd/system/klnagent_srv.service; enabled; vendor >
  Active: active (running) since Tue 2022-10-11 14:07:21 MSK; 3min 22s ago
  Process: 7613 ExecStart=/opt/kaspersky/ksc64/sbin/klnagent (code=exited, st>
  Main PID: 7617 (klnagent)
  Tasks: 20 (limit: 4695)
  Memory: 18.5M
  CPU: 1.223s
  CGroup: /system.slice/klnagent_srv.service
          └─7614 /opt/kaspersky/ksc64/sbin/klnagent
            └─7616 /bin/sh /var/opt/kaspersky/klnagent_srv/tmp/klsc-4EE67F6C32>
              └─7617 /opt/kaspersky/ksc64/sbin/klnagent -d -from_wd

окт 11 14:07:21 host-15 systemd[1]: Starting Kaspersky Network Agent...
окт 11 14:07:21 host-15 systemd[1]: klnagent_srv.service: Can't open PID file />
окт 11 14:07:21 host-15 systemd[1]: klnagent_srv.service: Supervising process 7>
окт 11 14:07:21 host-15 systemd[1]: Started Kaspersky Network Agent..
окт 11 14:07:22 host-15 klnagent_srv[7617]: Network Agent 14.0.0.4260 has start>
окт 11 14:07:23 host-15 klnagent_srv[7617]: New integration with Administration>
окт 11 14:07:23 host-15 klnagent_srv[7617]: ...new integration with Administrat>
lines 1-20/20 (END)
```

```
root@host-15: /root
Файл Правка Вид Поиск Терминал Справка
● kladminserver_srv.service - Kaspersky Security Center.
  Loaded: loaded (/lib/systemd/system/kladminserver_srv.service; enabled; ve>
  Active: active (running) since Tue 2022-10-11 14:07:13 MSK; 4min 14s ago
  Process: 7508 ExecStart=/opt/kaspersky/ksc64/sbin/klserver (code=exited, st>
  Main PID: 7512 (klserver)
  Tasks: 33 (limit: 4695)
  Memory: 74.5M
  CPU: 3.239s
  CGroup: /system.slice/kladminserver_srv.service
          └─7509 /opt/kaspersky/ksc64/sbin/klserver
            └─7511 /bin/sh /var/opt/kaspersky/klnagent_srv/tmp/klsc-6327A2C3B4>
              └─7512 /opt/kaspersky/ksc64/sbin/klserver -d -from_wd

окт 11 14:07:13 host-15 kladminserver_srv[7512]: MySQL configuration: wrong var>
окт 11 14:07:13 host-15 kladminserver_srv[7512]: MySQL configuration: wrong var>
окт 11 14:07:13 host-15 kladminserver_srv[7512]: MySQL 10.6 (5B4B4C44425D202>
окт 11 14:07:13 host-15 kladminserver_srv[7512]: MySQL configuration: wrong var>
окт 11 14:07:13 host-15 kladminserver_srv[7512]: MySQL configuration: wrong var>
окт 11 14:07:13 host-15 kladminserver_srv[7512]: MySQL configuration: wrong var>
окт 11 14:07:13 host-15 kladminserver_srv[7512]: MySQL configuration: wrong var>
окт 11 14:07:15 host-15 kladminserver_srv[7512]: The mobile certificate has bee>
окт 11 14:07:15 host-15 kladminserver_srv[7512]: Administration Server 14.0.0.4>
окт 11 14:07:23 host-15 kladminserver_srv[7512]: Forced synchronization with de>
lines 1-23/23 (END)
```

```
root@host-15: /root
Файл Правка Вид Поиск Терминал Справка
[root@host-15 ~]# systemctl status klactprx_srv.service
● klactprx_srv.service - Service allowing Network Agent to access activation se
  Loaded: loaded (/lib/systemd/system/klactprx_srv.service; enabled; vendor
  Active: active (running) since Tue 2022-10-11 14:07:22 MSK; 4min 36s ago
  Process: 7636 ExecStart=/opt/kaspersky/ksc64/sbin/klactprx (code=exited, st
  Main PID: 7641 (klactprx)
  Tasks: 15 (limit: 4695)
  Memory: 12.4M
  CPU: 478ms
  CGroup: /system.slice/klactprx_srv.service
          └─7639 /opt/kaspersky/ksc64/sbin/klactprx
             └─7640 /bin/sh /var/opt/kaspersky/klnagent_srv/tmp/klsc-6327A2C3B4
                └─7641 /opt/kaspersky/ksc64/sbin/klactprx -d -from_wd

окт 11 14:07:21 host-15 systemd[1]: Starting Service allowing Network Agent to
окт 11 14:07:22 host-15 systemd[1]: klactprx_srv.service: Can't open PID file /
окт 11 14:07:22 host-15 systemd[1]: klactprx_srv.service: Supervising process 7
окт 11 14:07:22 host-15 systemd[1]: Started Service allowing Network Agent to a
окт 11 14:07:22 host-15 klactprx_srv[7641]: Starting the Kaspersky activation p
окт 11 14:07:22 host-15 klactprx_srv[7641]: Kaspersky activation proxy server s
lines 1-19/19 (END)
```

```
root@host-15: /root
Файл Правка Вид Поиск Терминал Справка
[root@host-15 ~]# systemctl status klwebsrv_srv.service
● klwebsrv_srv.service - Kaspersky Web Server..
  Loaded: loaded (/lib/systemd/system/klwebsrv_srv.service; enabled; vendor
  Active: active (running) since Tue 2022-10-11 14:07:22 MSK; 5min ago
  Process: 7659 ExecStart=/opt/kaspersky/ksc64/sbin/klcsweb (code=exited, sta
  Main PID: 7665 (klcsweb)
  Tasks: 15 (limit: 4695)
  Memory: 12.0M
  CPU: 469ms
  CGroup: /system.slice/klwebsrv_srv.service
          └─7663 /opt/kaspersky/ksc64/sbin/klcsweb
             └─7664 /bin/sh /var/opt/kaspersky/klnagent_srv/tmp/klsc-6327A2C3B4
                └─7665 /opt/kaspersky/ksc64/sbin/klcsweb -d -from_wd

окт 11 14:07:22 host-15 systemd[1]: Starting Kaspersky Web Server....
окт 11 14:07:22 host-15 systemd[1]: klwebsrv_srv.service: Can't open PID file /
окт 11 14:07:22 host-15 klwebsrv_srv[7665]: Attempt to start Kaspersky Web Serv
окт 11 14:07:22 host-15 systemd[1]: klwebsrv_srv.service: Supervising process 7
окт 11 14:07:22 host-15 systemd[1]: Started Kaspersky Web Server...
окт 11 14:07:22 host-15 klwebsrv_srv[7665]: Kaspersky Web Server has been start
lines 1-19/19 (END)
```

## Установка KSC Web Console

2.0 Создать файл ответов, который содержит параметры для подключения KSC Web Console к KSC:

```
# cat >/etc/ksc-web-console-setup.json<<EOF
{
  "address": "<ip>",
  "port": 8081,
  "defaultLangId": 1049,
  "trusted":
  "127.0.0.1|13299|/var/opt/kaspersky/klnagent_srv/1093/cert/klserver.cer|KSC Server",
```

```
"enableLog": true,  
"acceptEula": true,  
"certPath": "/var/opt/kaspersky/klnagent_srv/1093/cert/klserver.cer"  
}  
EOF
```

Где <ip> - IP-адрес сервера KSC.



```
root@host-15: /root  
Файл Правка Вид Поиск Терминал Справка  
[root@host-15 ~]# cat >/etc/ksc-web-console-setup.json<<EOF  
> {  
> "address": "127.0.0.1",  
> "port": 8081,  
> "defaultLangId": 1049,  
> "trusted": "127.0.0.1|13299|/var/opt/kaspersky/klnagent_srv/1093/cert/klserver  
.cer|KSC Server",  
> "enableLog": true,  
> "acceptEula": true,  
> "certPath": "/var/opt/kaspersky/klnagent_srv/1093/cert/klserver.cer"  
> }  
> EOF  
[root@host-15 ~]# █
```

2.1 Установить пакет ksc-web-console:

```
# apt-get install ./ksc-web-console-*.x86_64.rpm
```

```
root@host-15: /home/server10/Загрузки
Файл Правка Вид Поиск Терминал Справка
[root@host-15 Загрузки]# rpm -i ksc-web-console-14.0.1100.x86_64.rpm
Create sanitized environment...
Installer started on default branch
Installer config params {
  address: '127.0.0.1',
  port: 8081,
  defaultLangId: 1049,
  trusted: '127.0.0.1|13299|/var/opt/kaspersky/klagent_srv/1093/cert/klserver.cer|K
SC Server',
  enableLog: true,
  acceptEula: true,
  certPath: '/var/opt/kaspersky/klagent_srv/1093/cert/klserver.cer'
}
ON INSTALL: Try to call on uninstall sequence
Stop and remove Web console services: start
Daemon KSCWebConsoleManagement is already unregistered
Daemon KSCWebConsolePlugin is already unregistered
Daemon KSCWebConsole is already unregistered
Daemon KSCSvcWebConsole is already unregistered
Daemon KSCWebConsoleMessageQueue is already unregistered
Stop and remove Web console services: successfully finished
Remove KL service users: start
Remove KL service users: successfully finished
ON INSTALL: On uninstall sequence finished successful
Patch config: start
crtPath=/var/opt/kaspersky/klagent_srv/1093/cert/klserver.cer; keyPath=undefined.
  Required parameters for custom certificates set up was not passed.
  Skip custom certificate update
Patch config: successfully finished
Patch Management Service config: start
Patch Management Service config: successfully finished
Generate certificates: start
Start vault
Vault started successfully
Error: connect ECONNREFUSED 127.0.0.1:8200
==> Vault server configuration:

                                Cgo: enabled
                                Go Version: go1.18
```

## Запуск KSC Web Console

3.0 Открыть браузер, перейти по адресу <https://<ip>:8081>

3.1 Ввести имя: kscadmin ,ввести пароль пользователя: Admin!@#