

.62.01.11.000.002 31 01-

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.62.01.11.000.002 31 01

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2017

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1.	4
1.1.	4
1.2.	4
1.3.	4
1.3.1.	6
2.	11
2.1.	11
2.2.	11
3.	14
3.1.	14
3.2.	,	18
3.2.1.	20
3.2.2.	23
3.2.3.	24
3.2.4.	24
3.2.5.	(.....).....	24
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1.

1.1.

x86_64,

« », Windows,

Linux,

1.2.

« - » :

Linux c

KVM,

« - » (60412878.00052-01)

« » 6.4, « - » (.62.01.11.000.003)

« », Windows Linux;

Linux c

KVM;

Linux Bridge ebttables;

SPICE VNC;

USB - audio- SPICE

;

- PCI-

- COM-

: NFS,

iSCSI, FC;

« -

»

Self-Hosted Engine;

« - »

(; ;

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OpenSSL,

28147-89, 34.10-2012;

IPv4-

, ;

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- ;

- , ;

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()

PXE

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SPICE

.62.01.11.000.002 31 01

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(NTFS, Ext2, Ext3, Ext4, Xfs, Vfat (fat32)).

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(60412878.00052-01)

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6.4,

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(.62.01.11.000.003)

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1.3.

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Linux-

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RAID-

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RAID5)

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DHCP-

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(« - »)

-
- /selinux/enforce;
- /etc/SELinux/config;
- /etc/SELinux/targeted/Booleans;
- /etc/selinux/targeted/booleans.local;
- /etc/passwd;
- /etc/default/useradd;
- /etc/group;
- /etc/shadow;
- /etc/skel.

1.3.1.

1.
DHCP- PXE- .
- 2.

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()

3.

4.

- /var/lib/aide/sintez;
- /etc/init.d/aide_startup;
- counthash;
- /etc/aide.startup.conf;
- /etc/cron.d/counthash_timetable;
- /etc/aide.conf;
- /usr/bin/file_tree;
- /etc/sintez/integrity_client.conf;
- /etc/passwd;
- /etc/default/useradd;
- /etc/group;
- /etc/shadow;
- /etc/skel;
- /etc/selinux/targeted/seusers;
- /etc/selinux/targeted/contexts;
- /var/www/Sintez-Repo/web/.htaccess;
- /etc/httpd/conf.d/z-ovirt-engine-proxy.conf;
- /etc/aide.user-group.conf.

5.

BIOS,

6.

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7. counthash.

8.

/etc/init.d/aide_startup /

/etc/rc.d/.

9.

10.

TGT- Kerberos

11.

/root/.ssh/authorized_keys .

12.

:

./etc/sysconfig/rsyslog;

./etc/rsyslog.conf;

./etc/rsyslog.d/;

./etc/audit/.

13.

auditd Rsyslog.

14.

15.

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RAM-based

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UDP NetLink

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.62.01.11.000.002 31 01

– user-space ;

– user-space.

16. , ,

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– , :

. Netlink ,

. UDP ;

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– upcall.

17. , « »,

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« ».

18. , « »,

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« » (6.4)

« » (7.2).

19. SELinux

libselinux. ()

libselinux .

2.

2.1.

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- 1) :
- 60412878.00052-01 « - » (« » 6.4);
 - .62.01.11.000.003 « - » (« »).

- 2) ,
- « » (« « »)

.62.01.11.000.004:

- .62.01.11.000.005 « - »;
- .62.01.11.000.006 « - »;
- .62.01.11.000.007 « - »;
- .62.01.11.000.008 « - »;
- .62.01.11.000.009 « - ».

- 3) « »

(« ») .62.01.11.000.010:

- .62.01.11.000.011 « - »;
- .62.01.11.000.012 « - »;
- .62.01.11.000.013 « - »;
- .62.01.11.000.014 « - »;
- .62.01.11.000.015 « - . »;
- .62.01.11.000.016 « - . »;
- .62.01.11.000.017 « - . »;
- .62.01.11.000.018 « - -01»;
- .62.01.11.000.019 « - -02»;
- .62.01.11.000.020 « - »;

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- .62.01.11.000.021 « - »;
- .62.01.11.000.022 « - . »;
- .62.01.11.000.023 « - . ».
- 4) - «
- » (« - / ») .62.09.20.190.001.

2.2.

- :
86_ 64
2 ;
- 8 ;
- 50 ;
- 1000 .
- .
- :
- ;
- ;
- .

(1-3).

$$a_A = \frac{(0.5 + x)N_B + N_C + \left[\frac{N_D}{20} \right] + 0.5N_E + X}{2} \quad (1);$$

$$b_A = (10 + (8 + x)N_B + 110N_C + 20 + 2 \left[\frac{N_D}{20} \right] + 5N_E + X \quad (2);$$

$$c_A = (2 + x)N_B + 2N_C + 2 \left[\frac{N_D}{20} \right] + 0.5N_E + X \quad (3),$$

- :
- a_A - ,
- ;

.62.01.11.000.002 31 01

b_A — , ;
 c_A — , ;
 x — ;
 X — ;
 N_B — ;
 N_C — ;
 N_D — ();
 N_E — .

:

1. «[]»

;

2.

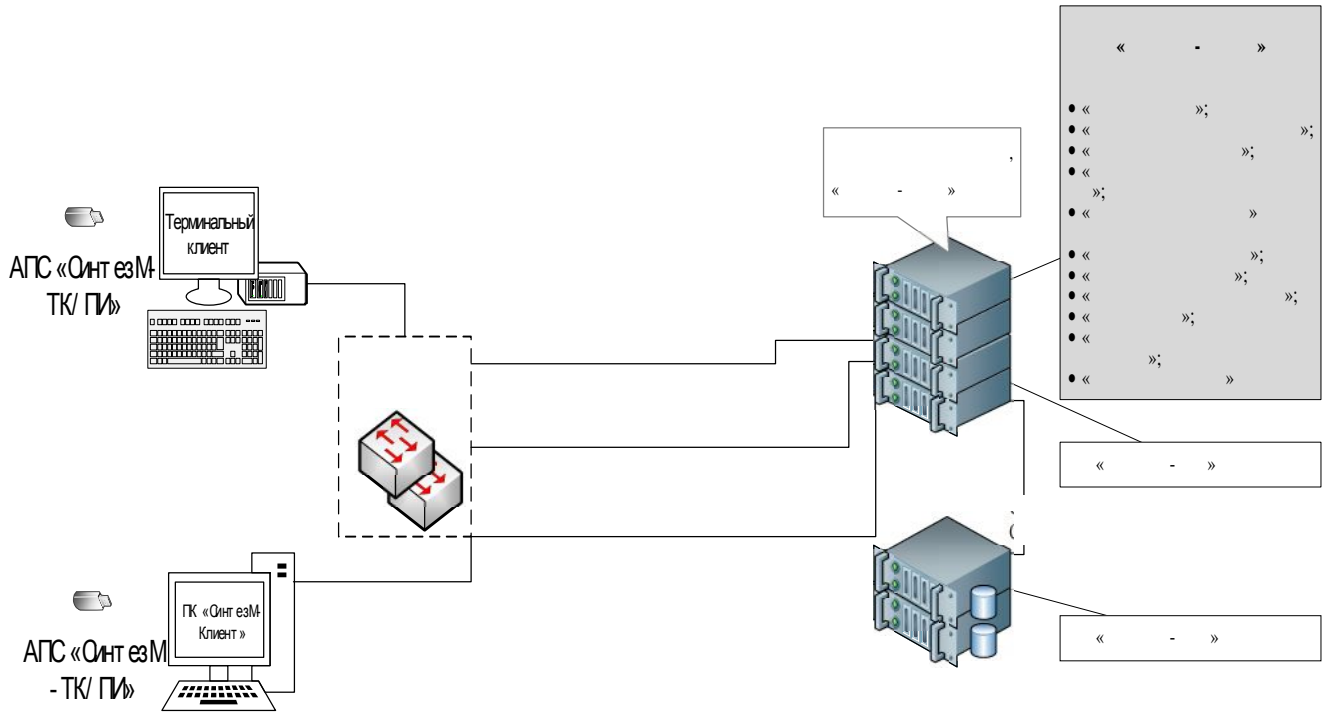
 N_C, N_D, N_E

,

.

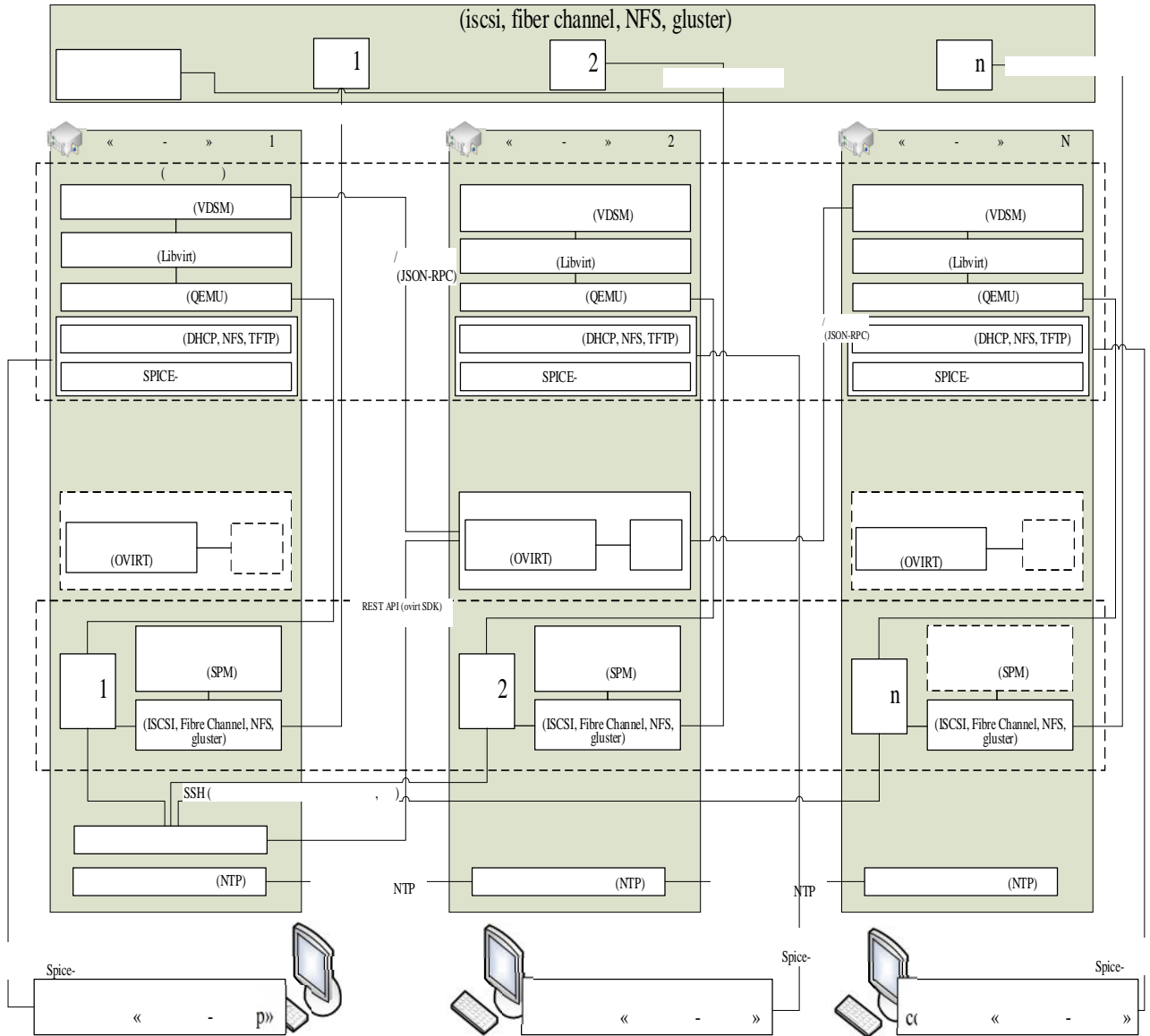
3.

3.1.

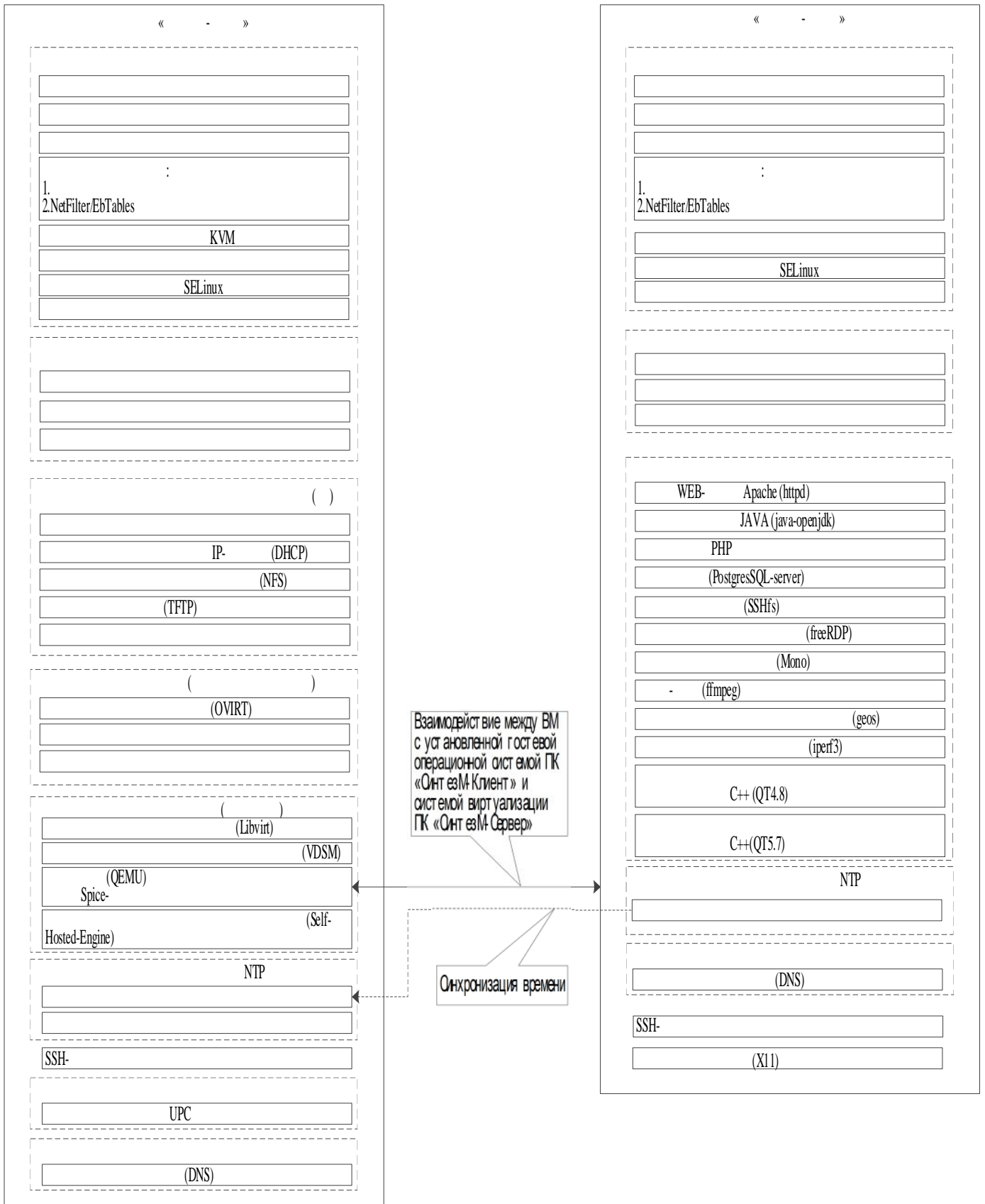


3.1.1 –

<< - >>



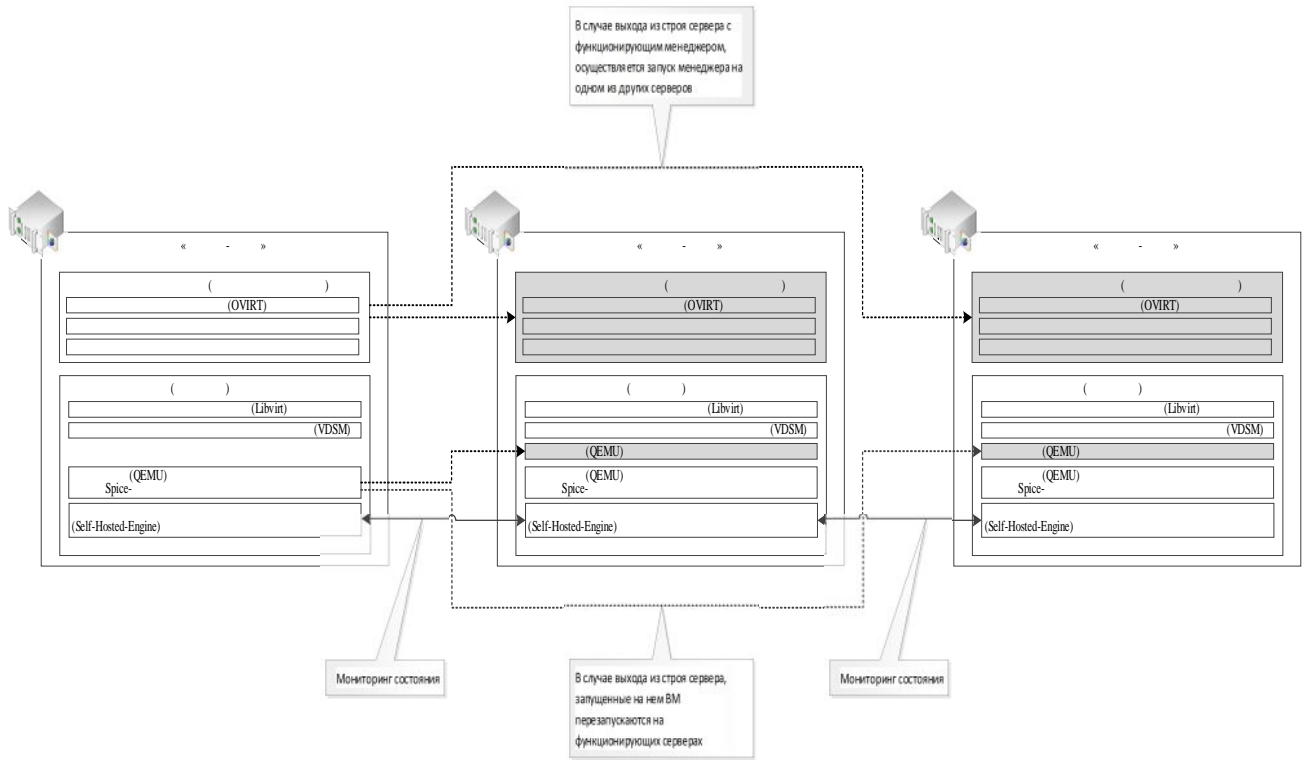
3.1.2 –



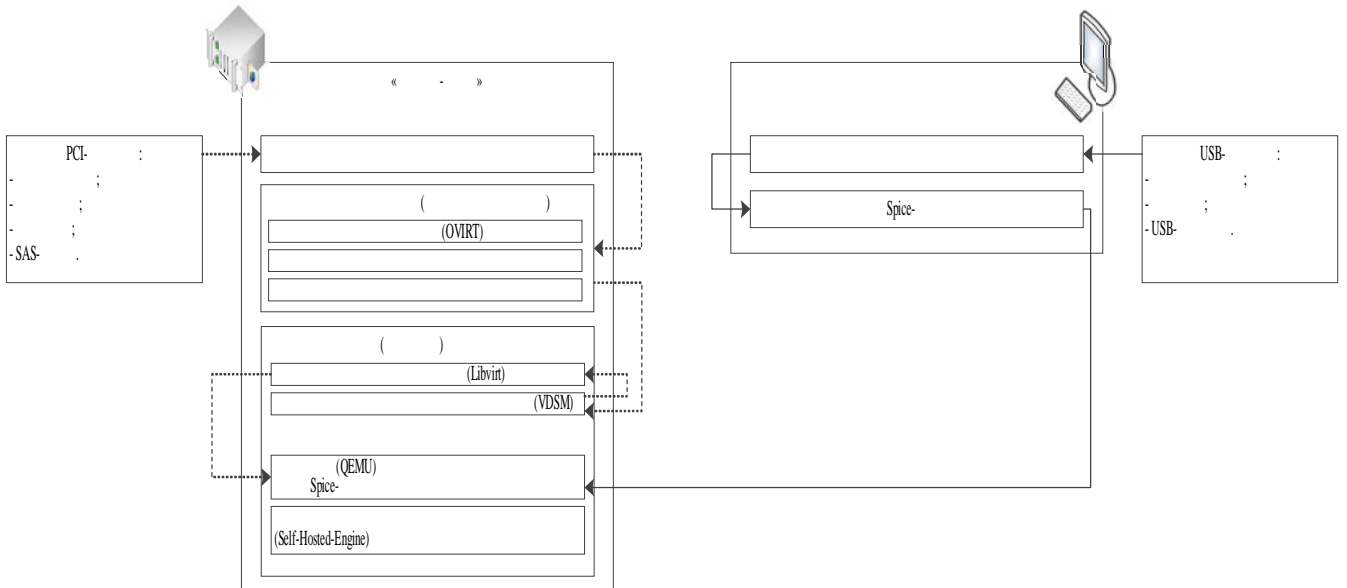
3.1.3 –

« - »,

« - »



3.1.4 -



3.1.5 -

3.2.

,

3.1

:	NetFilter/EbTables	:
KVM	Intel-VT	
SELinux		
GRUB		
		()
(DHCP) IP-	PXE	
(NFS)	,	
(TFTP)	TFTP	
		()
(OVIRT)	RestAPI	

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		(VDSM)
	,	
		LDAP
	(IPA)	
	()	
(Libvirt)		(QEMU)
(VDSM)		(Libvirt)
(QEMU) Spice-		KVM
	Spice	
(Self-Hosted-Engine)		
	NTP	
UPS	APC	
(DNS)	IP	(DNS)
	SSH-	
SSH-		

3.2.1.

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 - ;
 - ;
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3.2.1.1.

SCI –

, . SCI
 , SCI
 . SCI /linux/kernel, -

- ./linux/arch.

3.2.1.2.

;
 (, , ,)
).
 Linux ()
 (API) SCI

(, ,
Portable Operating System Interface (POSIX), (kill, exit),

(
POSIX).

(1),

– O (1) –

(1)

(SMP).

./linux/kernel,

./linux/arch.

3.2.1.3.

(4). Linux

. Linux

4

slab allocator.

4

./linux/mm.

3.2.1.4.

Linux -

(VFS),

VFS

SCI

VFS

API-

VFS

(
./linux/fs.

50).

).

(

(

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,

3.2.1.5.

Internet Protocol (IP) -

Transmission Control Protocol (TCP).

TCP

SCI.

API

"

"

IP (PDU)

TCP User Datagram Protocol

(UDP).

./linux/net.

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3.2.1.6.

Linux

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Linux

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./linux/drivers.

3.2.1.7.

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Linux

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./linux/arch

-

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BSP.

i386.

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./linux/arch.

3.2.2.

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GRUB

MBR

MBR,

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.62.01.11.000.002 31 01

(446),

(64).

MBR

MBR

GRUB

GRUB

3.2.3.

(

)

« - »

DHCP-

. DHCP-

IP-

MAC-

TFTP NFS-

3.2.4.

« - »

vir-viewer,

spice

3.2.5.

()

-

(API-).

« - »

KVM (Kernel-based Virtual Machine).

()

« - ».

.62.01.11.000.002 31 01

Libvirt.

Libvirt

«

».

Libvirt,

,

web management UI –

Apache

Java.

Java,

Libvirt

PostgreSQL.

IPA-

iSCSI

NFS,

().

3.2.6.

()

KVM,

KVM

/

KVM

, KVM

KVM

VDSM –

VDSM

.62.01.11.000.002 31 01

VDSM

3.2.7.

NTPD

NTPD -

NTPD

ntp.conf

/etc.

NTPD: /etc/ntp/ntp.conf

/etc/ntp/ntp.conf

NTPD

64

iburst

server,

, NTPD

((

)

1024

3.2.8. SSH-

SSH (. secure shell -) ,

SSH

SSH r-

SSH

SSH

- ;
- (kerberos, pam);
- ();
- ;
- ;
- (

SSH-

SSH

ssh.

ssh

ssh

, ssh

TCP-

ssh- (port forwarding).

ssh

22.

3.2.9.

IPMI (. Intelligent Platform Management Interface) –

,

,

.

, IPMI –

,

,

.

– Baseboard Management Controller (BMC).

BMC

,

IPMB (Intelligent Platform Management

Bus/Bridge)

BMC

IPMC (Intelligent

Platform Management Chassis).

Fence

Agent,

(IP- , login,

password, Password Script, Authentication type, Use Lanplus)

BMC

:

,

.

3.2.10.

gethostbyname()

hostent

name.

name

,

IPv4

,

IPv6

(,

,)

(. IPv6 RFC 1884).

name

IPv4

IPv6,

gethostbyname()

name

h_name,

struct in_addr

h_addr_list[0]

hostent.

name

HOSTALIASES,

,

HOSTALIASES,

.62.01.11.000.002 31 01

```

        name (                               hostname(7)).      name
        ,
        gethostbyaddr()                       hostent
addr,                                         len,                       type.
                                         AF_INET.
        sethostent() (                       stayopen           (1))
        TCP
    ,
        .
        UDP.
        endhostent()                         TCP
    ,
        gethostbyname()
gethostbyaddr(),
named(8),                                   /etc/hosts
        (NIS      YP)                       /etc/host.conf (
resolv+(8).                                 named (8),           /etc/hosts.
        hostent                             <netdb.h>           :
struct hostent {
    char    *h_name;                          /*
    char    **h_aliases;                      /*
    int     h_addrtype;                       /*
    int     h_length;                         /*
    char    **h_addr_list;                   /*
}
#define    h_addr    h_addr_list[0]         /*
        hostent      :
h_name (
h_aliases (
h_addrtype (
h_length (

```

.62.01.11.000.002 31 01

h_addr_list (
);

h_addr (h_addr_list
).

4.

4.1.

« - » :

- Linux

KVM,

« - » 60412878.00052-01

« » 6.4, « - » .62.01.11.000.003

« », Windows Linux;

-

Linux

KVM;

-

Linux Bridge ebtabels;

-

SPICE VNC;

- USB- audio- SPICE

;

- PCI ;

- COM- ;

- : NFS,

iSCSI, FC;

- « -

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Self-Hosted Engine;

- « - »

(; ;

, ;

.62.01.11.000.002 31 01

; ;
);
- OpenSSL,

28147-89, 34.10-2012;

- IPv4- ;
- , ;
-

- ;
- , ;
-

- ;
- ;
- ()

- PXE ;

- SPICE

- ;
- ;
-

- (NTFS, Ext2, Ext3, Ext4, Xfs, Vfat (fat32));

- ,
« - »

60412878.00052-01 « » 6.4, « - »

.62.01.11.000.002 « ».

5.

4.1

« - »

			Ethernet			
	NetFilter/EbTables				NetFilter/EbTables	
	KVM	VT Intel-				
	KVM	VT Intel-			KVM	Intel-VT

.62.01.11.000.002 31 01

SELinux				SELinux	
			.pp		
		GRUB	/boot/grub/grub.cfg		
			DHCP		
			TFTP		
) (			NFS		

.62.01.11.000.002 31 01

		-	HTTP-	()	
()			SQL-		
			RestAPI-		
		vdsm	XML	()	
		libvirt	(QEMU)		
SelfHosted Engine		Spice-	(QEMU)		
				SelfHosted Engine	
NTP			NTP		
		UDP			
		NTP			

LIBSELINUX

avc_add_callback	
avc_audit	avc_has_perm (3), avc_has_perm_noaudit (3),
avc_av_stats	
avc_cache_stats	AVC avc_init (3) avc_reset (3).
avc_cleanup	SID SID AVC, AVC.
avc_compute_create	SID
avc_compute_member	
avc_context_to_sid	SID ctx SID, ctx sid, 0 SID -1 erno.
avc_context_to_sid_raw	SID
avc_destroy	AVC AVC. SID avc_init (3), AVC.
avc_get_initial_sid	SID security_get_initial_context (3), avc_context_to_sid (3),

avc_has_perm	AVC, , SID (ssid, tsid), tclass , aeref, AVC , 0, , -1 errno, EACCES, -
avc_has_perm_noaudit	AVC, , SID (ssid, tsid), tclass , aeref, AVC avd. 0, , -1 errno, EACCES, - avc_has_perm (3), (), , ,
avc_init	avc_open. AVC. 0 -1 errno,
avc_netlink_acquire_fd	netlink
avc_netlink_check_nb	netlink
avc_netlink_close	netlink.
avc_netlink_loop	netlink fd. netlink
avc_netlink_open	netlink fd. netlink
avc_netlink_release_fd	netlink
avc_open	AVC. avc_init (3), , «avc», selinux_set_callback (3).
avc_reset	(avc_cache_stats (3) SID . 0 , -1

	errno,
avc_sid_stats	SID SID.
avc_sid_to_context	SID. , sid , ctx.
avc_sid_to_context_raw	SID. , sid , ctx.
checkPasswdAccess	selinux_check_passwd_access (3) selinux_check_access (3). passwd. 0, -1 " "
context_free	
context_new	
context_range_get	
context_range_set	
context_role_get	
context_role_set	
context_str	context_t. context_str context_free context_t*.
context_type_get	
context_type_set	
context_user_get	
context_user_set	
fgetfilecon	Wrapper xattr API. *con. freecon.
fgetfilecon_raw	xattr API. *con. freecon.
fini_selinuxmnt	selinuxmnt
freecon	, get *
freeconary	, security_compute_user (3).

fsetfilecon	API xattr - .
fsetfilecon_raw	API xattr - .
getcon	*con freecon (3).
getcon_raw	*con freecon (3).
get_default_context	« », «fromcon», *newcon, , , 'fromcon' NULL, 0 -1 freecon.
get_default_context_with_level	, get_default_context (3), MLS, .
get_default_context_with_role	, get_default_context (3), .
get_default_context_with_rolelevel	, get_default_context (3), .
get_default_type	() « » « ». free(3). 0 - 1
getexecon	exec *con *con NULL, exec, . .
getexecon_raw	exec *con *con NULL, exec, . .
getfilecon	Wrapper xattr API. *con freecon (3).
getfilecon_raw	Wrapper xattr API. *con freecon (3).
getfscreatecon	fscreate *con *con NULL, fs , . .
getfscreatecon_raw	fscreate *con *con NULL, fs , . .
getkeycreatecon	keycreate *con *con NULL, , . .

getkeycreatecon_raw	keycreate *con NULL, . . .
get_ordered_context_list	*conary NULL, *conary. 'fromcon' freeconary(3).
get_ordered_context_list_with_level	, get_ordered_context_list (3), MLS,
getpeercon	Wrapper API. *con freecon (3).
getpeercon_raw	Wrapper API. *con freecon (3).
getpidcon	*con , pid, freecon (3).
getpidcon_raw	*con , pid, freecon (3).
getprevcon	*con (exec) freecon (3).
getprevcon_raw	*con (exec) freecon (3).
getseuser	Linux SELinux get_ordered_context_list* get_default_context* -1 0 free(3).
getseuserbyname	Linux SELinux get_ordered_context_list* get_default_context* -1 0

	free(3).
getsockcreatecon	sockcreate *con NULL, freecon(3).
getsockcreatecon_raw	sockcreate *con NULL, freecon(3).
_init (_initselinuxmnt -)	(fini_selinuxmnt).
is_context_customizable	,
is_selinux_enabled	1, SELinux, 0, , -1 .
is_selinux_mls_enabled	1, SELinux MLS, 0 .
lgetfilecon	Wrapper xattr API. *con. freecon (3).
lgetfilecon_raw	Wrapper xattr API. *con. freecon (3).
lsetfilecon	Wrapper xattr API. .
lsetfilecon_raw	Wrapper xattr API. .
manual_user_enter_context	, freecon (3). 0 -1 .
matchmediacon	*con freecon.
matchpathcon	*con <mode> 0, freecon. matchpathcon_init (3) NULL-
matchpathcon_checkmatches	, <Str>

matchpathcon_filespec_add	inode (, -) . ,
matchpathcon_filespec_destroy	inode, , .
matchpathcon_filespec_eval	-
matchpathcon_fini	matchpathcon_init.
matchpathcon_index	matchpathcon(3), matchpathcon_filespec_add(3).
matchpathcon_init	«path» , matchpathcon. «path» NULL, selinux_file_context_path (3). MATCHPATHCON_BASEONLY , «path».homedirs «path».local
matchpathcon_init_prefix	matchpathcon init (3), «prefix».
mode_to_security_class	mode_t (, S_ISREG = "file").
print_access_vector	.
query_user_context	*newcon. freecon (3). 0 sucess -1 .
realpath_not_final	realpath (3), PATH_MAX + 1. (
rpm_execon	rpm
security_av_perm_to_string	.
security_av_string	free(3).
security_canonicalize_context	() canoncon, , ,

	userpace con.
security_canonicalize_context_raw	() () canoncon, , , con.
security_check_context	.
security_check_context_raw	.
security_class_to_string	.
security_commit_booleans	
security_compute_av	. , scon tcon tclass avd.
security_compute_av_flags	. , scon tcon tclass avd. SELINUX_AVD_FLAGS_PERMISSIVE, , (, , (8), ,). , SELinux scon.
security_compute_av_flags_raw	. , scon tcon tclass avd. SELINUX_AVD_FLAGS_PERMISSIVE, , (, , (8), ,). , SELinux scon.
security_compute_av_raw	. , scon tcon tclass avd.
security_compute_create	*newcon freecon(3).

security_compute_create_name	security_compute_create(3), [#5.7.6.type_transition |outline type_transition] </tt> , scon/tcon , newcon 2.6.40
security_compute_create_name_raw	security_compute_create(3), [#5.7.6.type_transition |outline type_transition] </tt> , scon/tcon , newcon 2.6.40
security_compute_create_raw	*newcon freecon(3).
security_compute_member	polyinstantiation *newcon freecon (3).
security_compute_member_raw	polyinstantiation *newcon freecon (3).
security_compute_relabel	*newcon freecon (3).
security_compute_relabel_raw	*newcon freecon (3).
security_compute_user	*con NULL. freeconary(3).
security_compute_user_raw	*con NULL. freeconary(3).
security_deny_unknown	/
security_disable	SELinux ().
security_get_boolean_active	.
security_get_boolean_names	
security_get_boolean_pending	.
security_getenforce	.

security_get_initial_context	freecon (3).
security_get_initial_context_raw	freecon (3).
security_load_booleans	NULL,
security_load_policy	
security_policyvers	
security_set_boolean	
security_set_boolean_list	
security_setenforce	
selabel_close	
selabel_cmp	
selabel_digest	
selabel_lookup	key type, -1 errno, () 0 ; con, freecon.
selabel_lookup_best_match	
selabel_lookup_best_match_raw	
selabel_lookup_raw	key type, -1 errno, () 0 ; con, freecon.
selabel_open	SELABEL_CTX_FILE - file_contexts. SELABEL_CTX_MEDIA - media contexts. SELABEL_CTX_X - x_contexts. SELABEL_CTX_DB - contexts SE-PostgreSQL. SELABEL_CTX_ANDROID_PROP - property_contexts.

	<pre> opts; SELABEL_OPT_UNUSED - no-op, SELABEL_OPT_VALIDATE - (). SELABEL_OPT_BASEONLY - (). SELABEL_OPT_PATH - SELABEL_OPT_SUBSET - (). NULL errno, " </pre>
selabel_partial_match	
selabel_stats	
selabel_subs_init	
selinux_binary_policy_path	
selinux_booleans_path	
selinux_booleans_subs_path	booleans.subs_dist.
selinux_boolean_sub	<pre> /etc/selinux/TYPE/booleans.subs_dist, boolean_name. selinux_boolean_sub (3) NULL. </pre>
selinux_check_access	<pre> aux Security_deny_unknown (3) , avc_audit (3). deny_unknown </pre>
selinux_check_passwd_access	<pre> passwd. 0, -1 selinux_check_access (3) </pre>
selinux_check_securetty_context	<pre> , tty_context security. 0, , <0 </pre>

selinux_colors_path	.
selinux_contexts_path	.
selinux_current_policy_path	.
selinux_customizable_types_path	customizable_types
selinux_default_context_path	default_context
selinux_default_type_path	default_type.
selinux_failsafe_context_path	failafe_context
selinux_file_context_cmp	, 0,
selinux_file_context_homedir_path	file_context.homedir
selinux_file_context_local_path	file_context.local
selinux_file_context_path	file_context
selinux_file_context_subs_dist_path	file_context.subs_dist
selinux_file_context_subs_path	file_context.subs
selinux_file_context_verify	"path" 0,
selinuxfs_exists	SELinux
selinux_get_callback	selinux_set_callback (3).
selinux_getenforcemode	/etc/selinux/config , (1), (0) (-1)
selinux_getpolicytype	/ etc / selinux / config , policytype.
selinux_homedir_context_path	, semanage(8),
selinux_init_load_policy	*enforce () , SELinux selinuxfs,

	0, , init, , -1, init *enforce, (*inforce > 0), init init
selinux_lsetfilecon_default	0
selinux_lxc_contexts_path	lxc_contexts.
selinux_media_context_path	
selinux_mkload_policy	security_load_policy (3), () / security_load_policy (3), «preservebools» - (1) (0).
selinux_netfilter_context_path	netfilter_context
selinux_openssh_contexts_path	openssh_context
selinux_path	
selinux_policy_root	/etc/selinux/config
selinux_raw_context_to_color	RGB "#ff0000". free(3). -1 0
selinux_raw_to_trans_context	(«translated») («raw»). freecon(3). -1 0 NULL,

	NULL 0.
selinux_removable_context_path	removeable_context
selinux_reset_config	
selinux_restorecon	
selinux_restorecon_default_handle	
selinux_restorecon_set_exclude_list	
selinux_restorecon_set_sehandle	
selinux_securetty_types_path	securetty_types
selinux_sepysql_context_path	sepysql_context
selinux_set_callback	: SELINUX_CB_LOG, SELINUX_CB_AUDIT, SELINUX_CB_VALIDATE, SELINUX_CB_SETENFORCE, SELINUX_CB_POLICYLOAD
selinux_set_mapping	,
selinux_set_policy_root	,
selinux_snapperd_contexts_path	
selinux_status_close	
selinux_status_deny_unknown	/
selinux_status_getenforce	
selinux_status_open	SELinux.
selinux_status_policyload	
selinux_status_updated	,
selinux_systemd_contexts_path	systemd_contexts.
selinux_translations_path	setrans.conf
selinux_trans_to_raw_context	- («translated») («raw»). freecon(3). -1 0 NULL, NULL 0.
selinux_user_contexts_path	

selinux_usersconf_path	.
selinux_users_path	.
selinux_virtual_domain_context_path	.
selinux_virtual_image_context_path	.
selinux_x_context_path	x_context
setcon	con. , exec, setexeccon (3). (3) + execve (3). setexeccon setcon (3),
setcon_raw	con. , exec, setexeccon (3). (3) + execve (3). setexeccon setcon (3),
setexeccon	exec execve (3). NULL,
setexeccon_raw	exec execve (3). NULL,
setexecfilecon	,
setfilecon	xattr API -
setfilecon_raw	xattr API -
setfscreatecon	fscreate NULL,
setfscreatecon_raw	fscreate NULL,
setkeycreatecon	keycreate NULL,

setkeycreatecon_raw	keycreate NULL,
set_matchpathcon_canoncon	, set_matchpathcon_invalidcon (3), * context invalidcon security_canonicalize_context (3).
set_matchpathcon_flags	matchpathcon_init (3) matchpathcon (3): MATCHPATHCON_BASEONLY - base_contexts. MATCHPATHCON_NOTRANS - MATCHPATHCON_VALIDATE - / init.
set_matchpathcon_invalidcon	, matchpathcon_init (3) file_contexts. security_check_context (3). , «path» «lineno».
set_matchpathcon_printf	, matchpathcon_init (3) file_contexts. fprintf (stderr, fmt, ...).
set_selinuxmnt	selinuxfs. libselinux, , /sbin/init, selinuxfs.
setsockcreatecon	sockcreate NULL,
setsockcreatecon_raw	sockcreate NULL,
sidget	2.0.86 -
sidput	2.0.86 -
string_to_av_perm	.
string_to_security_class	.

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API-

- (*.Application Programming Interface*) -

. API -

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BMC

- (Baseboard management controller) -
BMC

-
CD/DVD
(IP KVM),
BIOS

BSP

- *Board Support Package* -

/

DHCP

- (*.Dynamic Host Configuration Protocol*)

IP-
TCP/IP.

« - ».

DHCP

Ebtables

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Linux,

()

iSCSI

- (*.Internet Small Computer System Interface*)
TCP/IP

Intel VT

- (Intel Virtualization Technology)

(8086)

IP-

- *Internet Protocol* (IP, « »)
TCP/IP.

IP

IOMMU

- (*.input/output memory management unit*)
(MMU)

					IOMMU
IPMB	-	(	. Intelligent Platform Management Interface)	-	
IPMI	-	(	. <i>Intelligent Platform Management Interface</i>)	-	
					IPMI –
					, BIOS'a
FC		(	. <i>fibre channel</i> –)	-
GRUB		(	. <i>GRand Unified Bootloader</i>)		GNU. GRUB
KVM	-	(	. <i>Kernel-based Virtual Machine</i>)	-	
					Linux
			x86,		
			Intel VT (Virtualization Technology)		AMD SVM (Secure Virtual Machine)
libvirt	-				
Linux	-		Unix-		
Linux Bridge	-	(	. <i>bridge</i> ,)	-
			Ethernet		
					Ethernet-
		(		)	IP-
			(	2	OSI),
LDAP	-	(. <i>Lightweight Directory Access Protocol</i> «		»)
			X.500,		IETF
			LDAP –		ITU-T
					DAP.
					TCP/IP

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- MBR – (. *master boot record*)
- MMU – (. *memory management unit*)–
- SELinux – (. *Security-Enhanced Linux – Linux*)–
- SSH – (. *secure shell* -)
- SMP –
- SPICE – (. «*Simple Protocol for Independent Computing Environments*», « »)– (: *Spice*).
- SCI –
- TFTP – (. *Trivial File Transfer Protocol* –) . TFTP
- TLB – IP-) (. *Translation lookaside buffer*)– (. *Translation lookaside buffer*)– . TLB
- (8 4096) . TLB

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- Netfilter – (), Linux
- NFS – 2.4 (Network File System) (ONC RPC). ()
- NTPD (Network Time Protocol daemon) - - ,
- NUMA – (. Non-Uniform Memory Access) – ,
- oVirt – ,
- RAID – (. Reduntant array of independent disks) – RAID-
- REST – (. Representational State Transfer « ») . REST ,
- UDP – (. User Datagram Protocol –) – TCP/IP, UDP (IP-
- USB – (- - , . UniversalSerial Bus)
- COM- – (. serial port, . communications RS-232 « »), ()
- PDU – Protocol Data Unit – (OSI " " () ;)
- PCI – (. Peripheral component interconnect, –) – -

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POSIX	–	(<i>portable operating system interface</i>)– (API), UNIX-	, C
PostgreSQL	–	Unix (« - - - »)– ()	-
PXE	–	(<i>Preboot eXecution Environment</i> , USB- . .))
QEMU	–		,
NFS-	–	<i>Network File System (NFS)</i> – Microsystems 1984 . ,	Sun ()
VFS	–		,
VMCS	–	(Virtual Machine Control Structure) ,	,
VNC	–	(Virtual Network Computing)– (<i>Remote FrameBuffer</i> , ,	RFB)
VT-x (VMX)	–		«Vanderpool», VT-x Intel x86. VMX

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