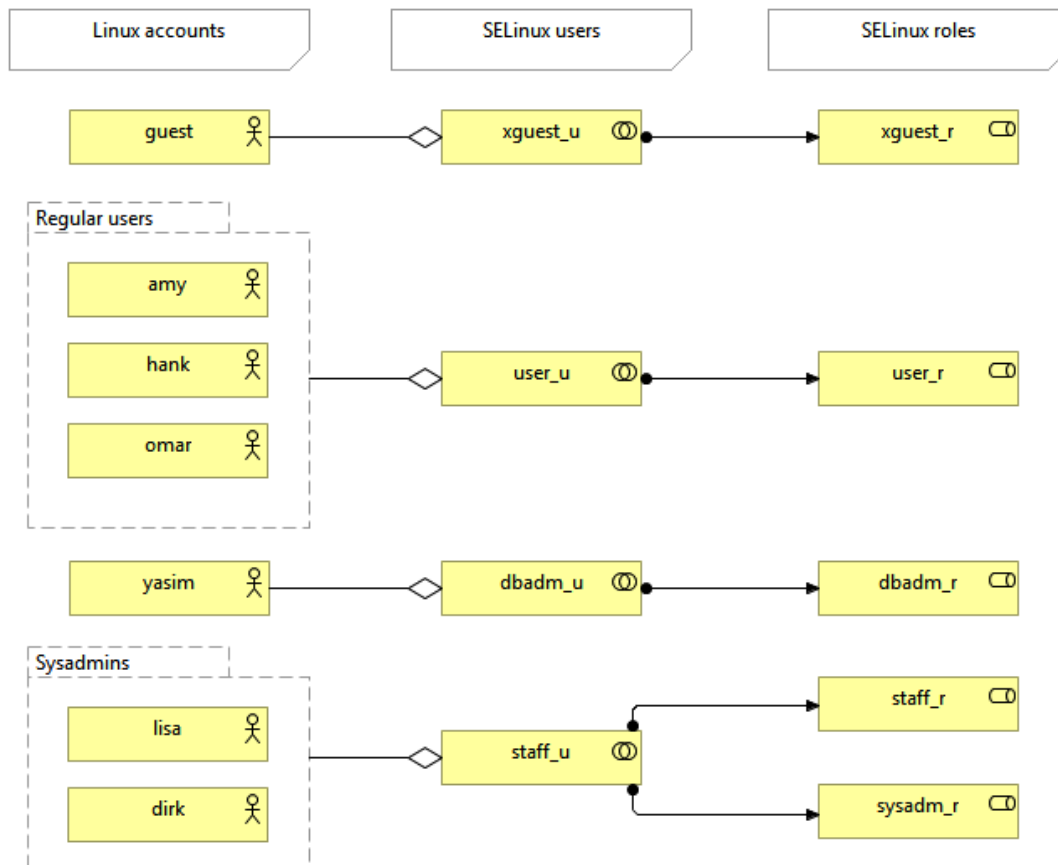
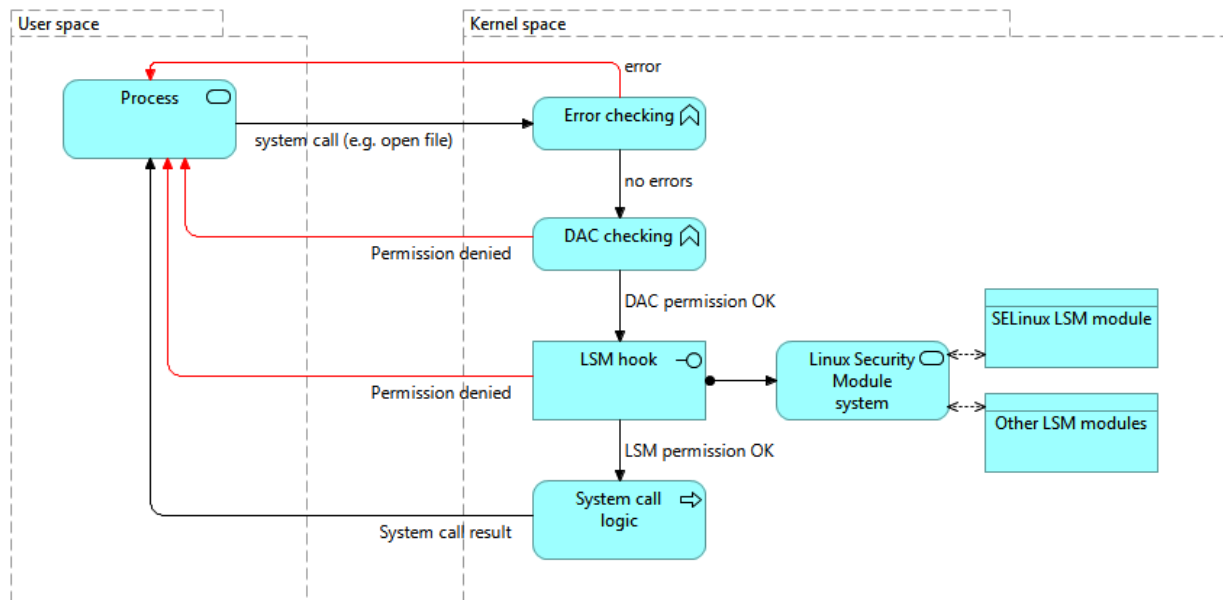
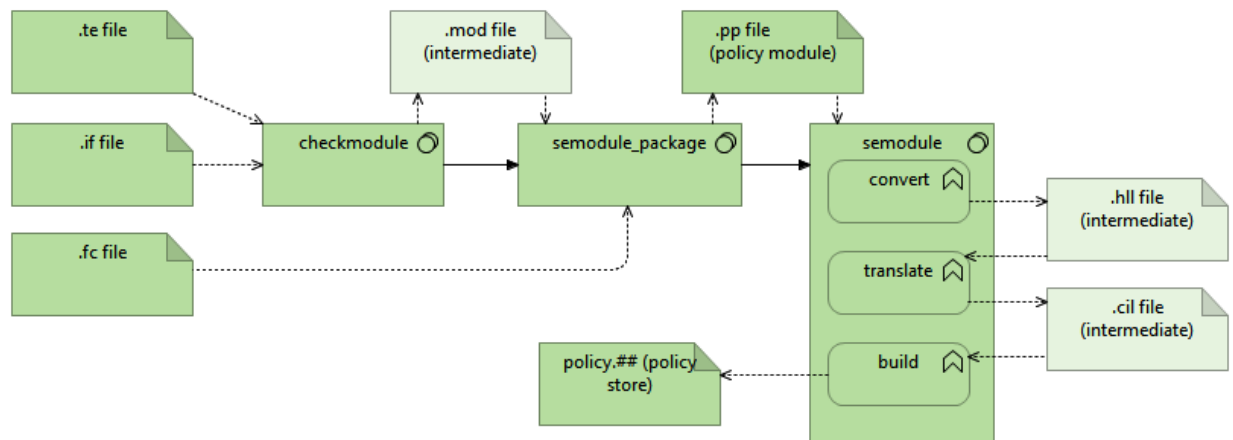
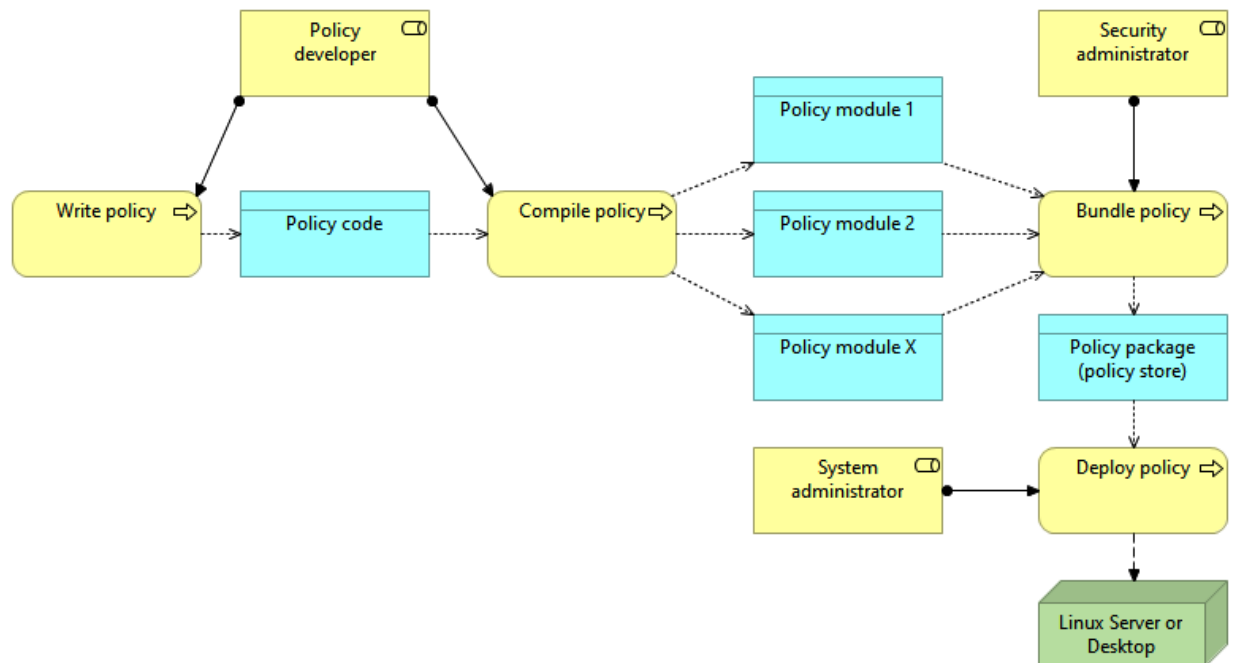
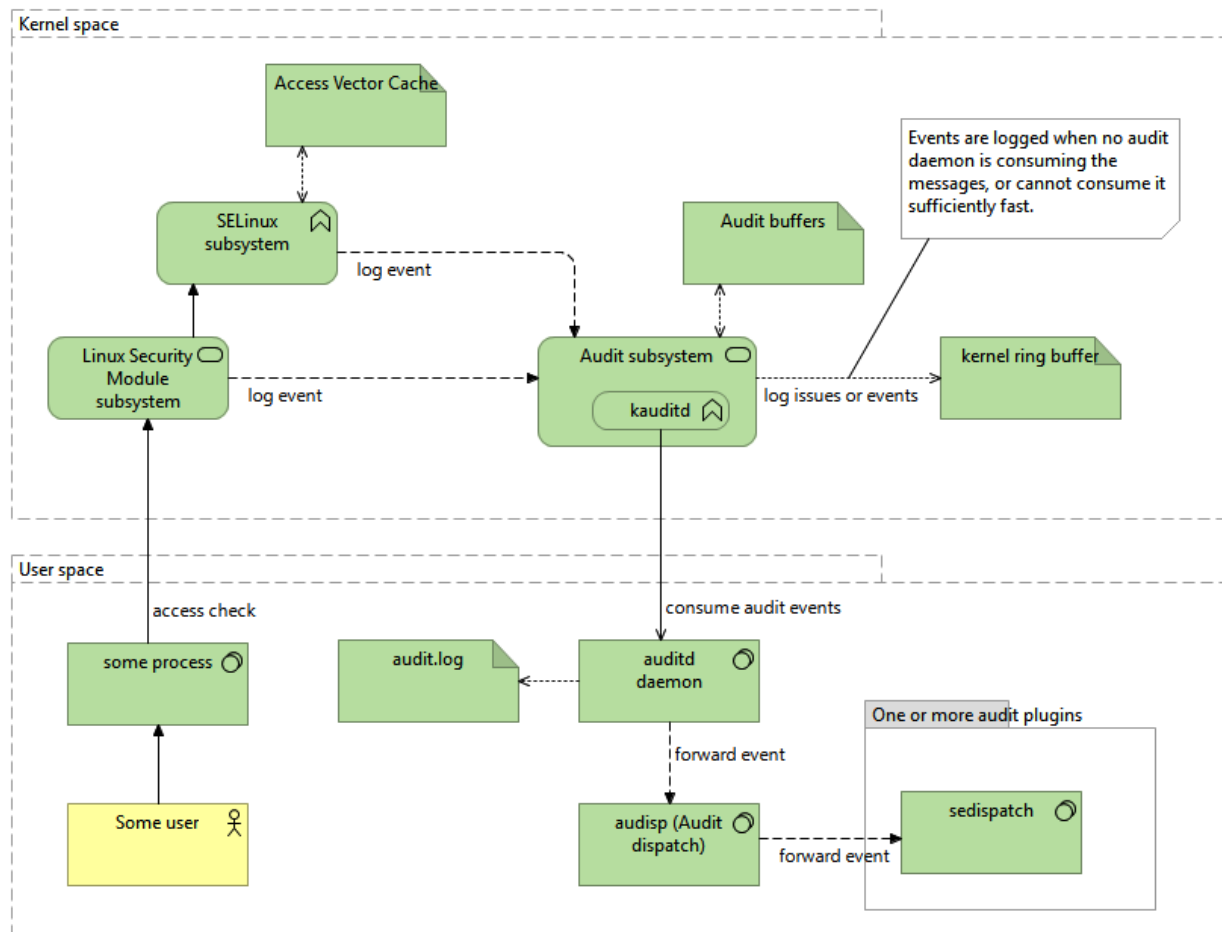


Chapter 1: Fundamental SELinux Concepts

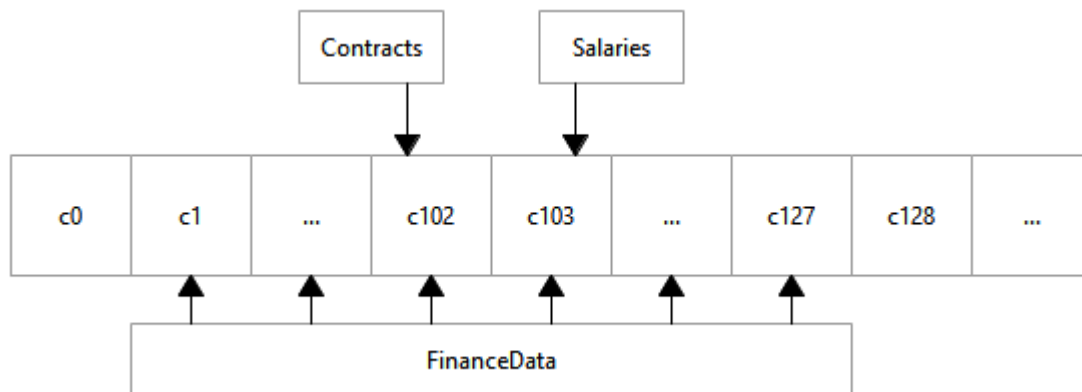




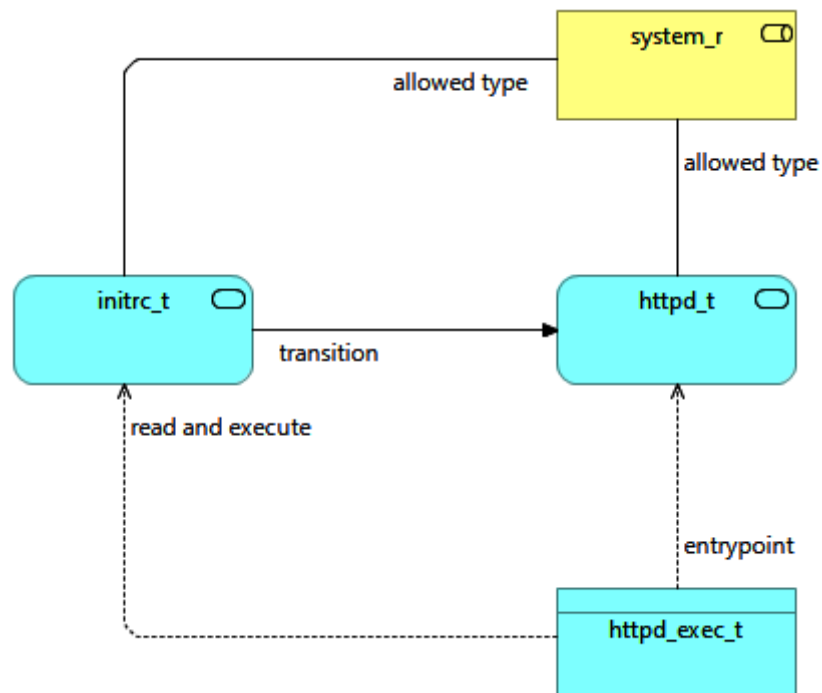
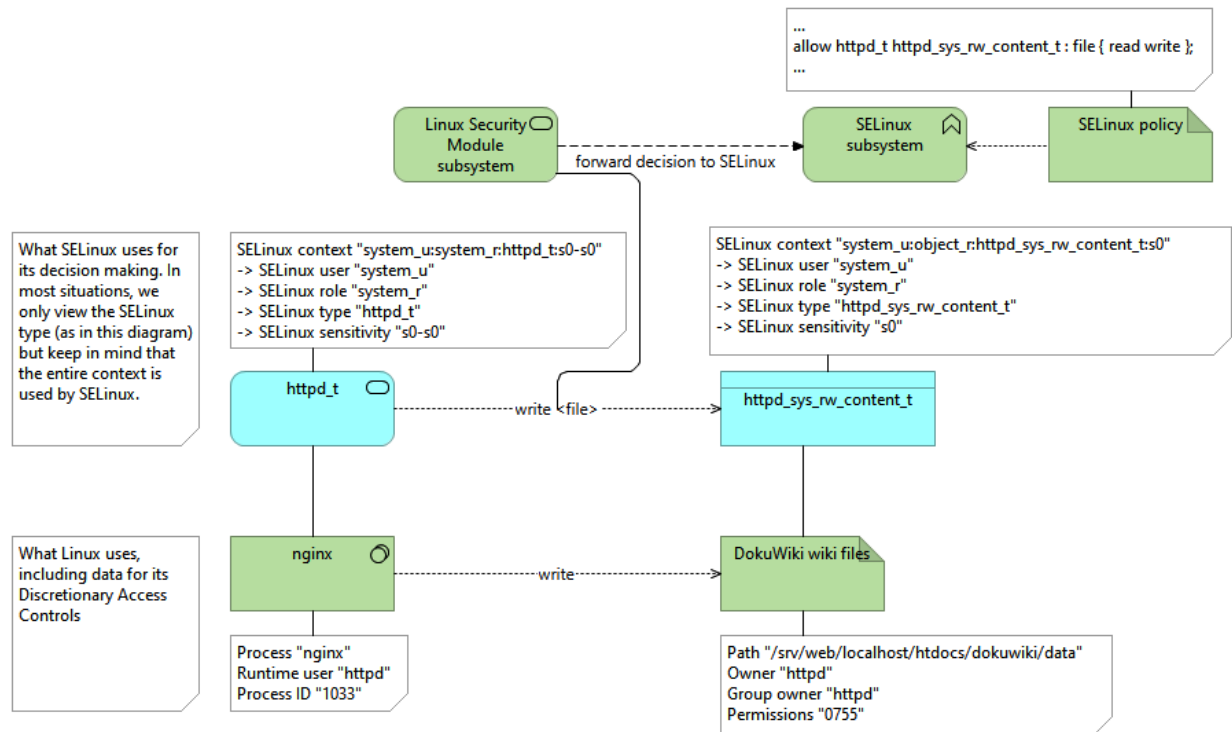
Chapter 2: Understanding SELinux Decisions and Logging



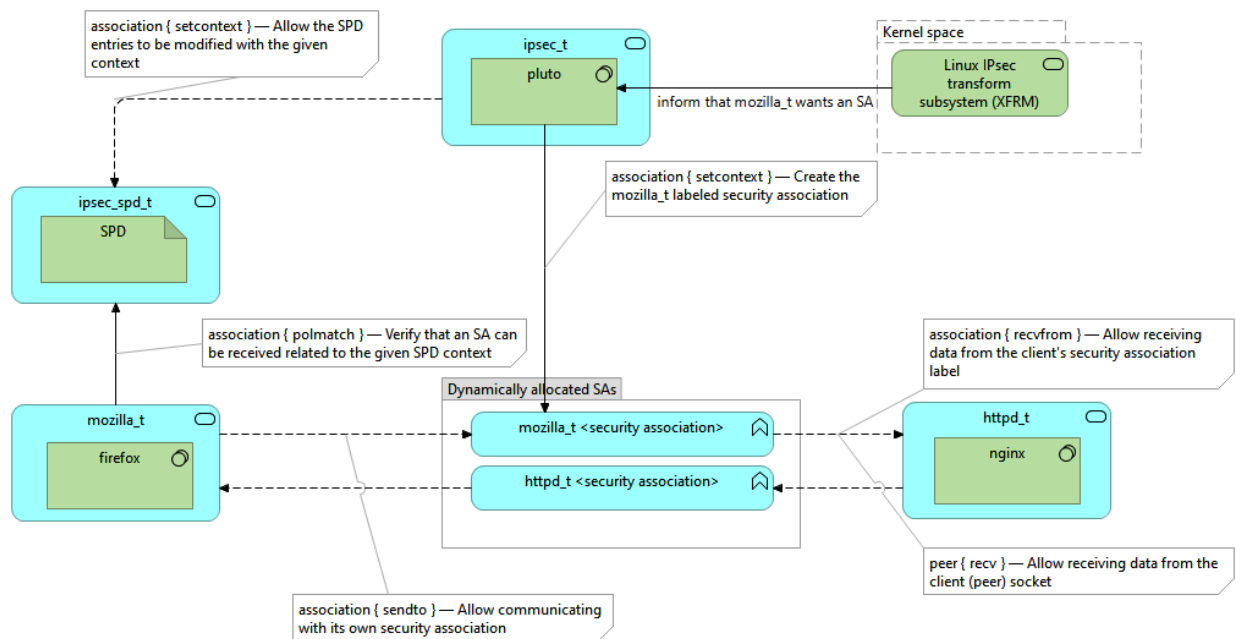
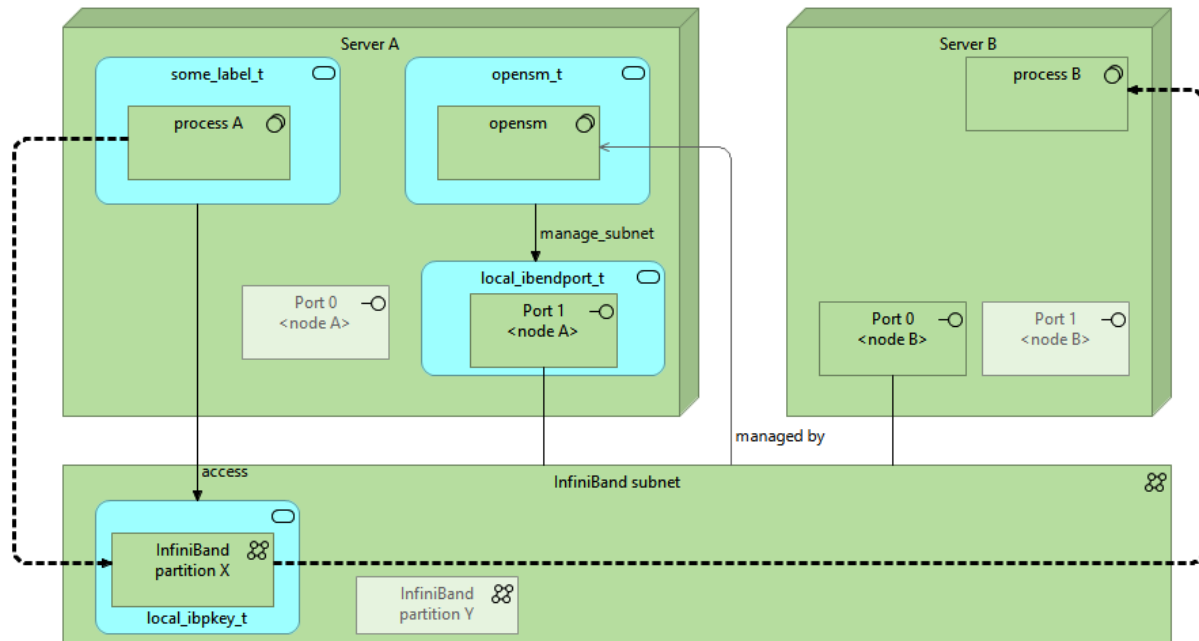
Chapter 3: Managing User Logins

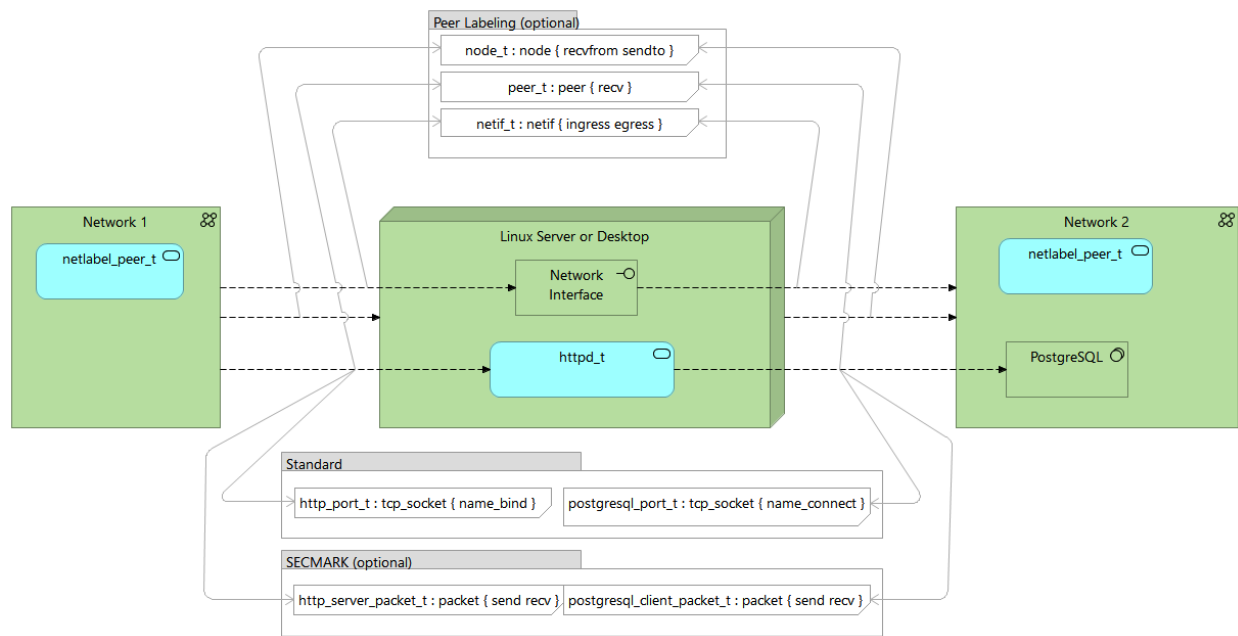


Chapter 4: Using File Contexts and Process Domains

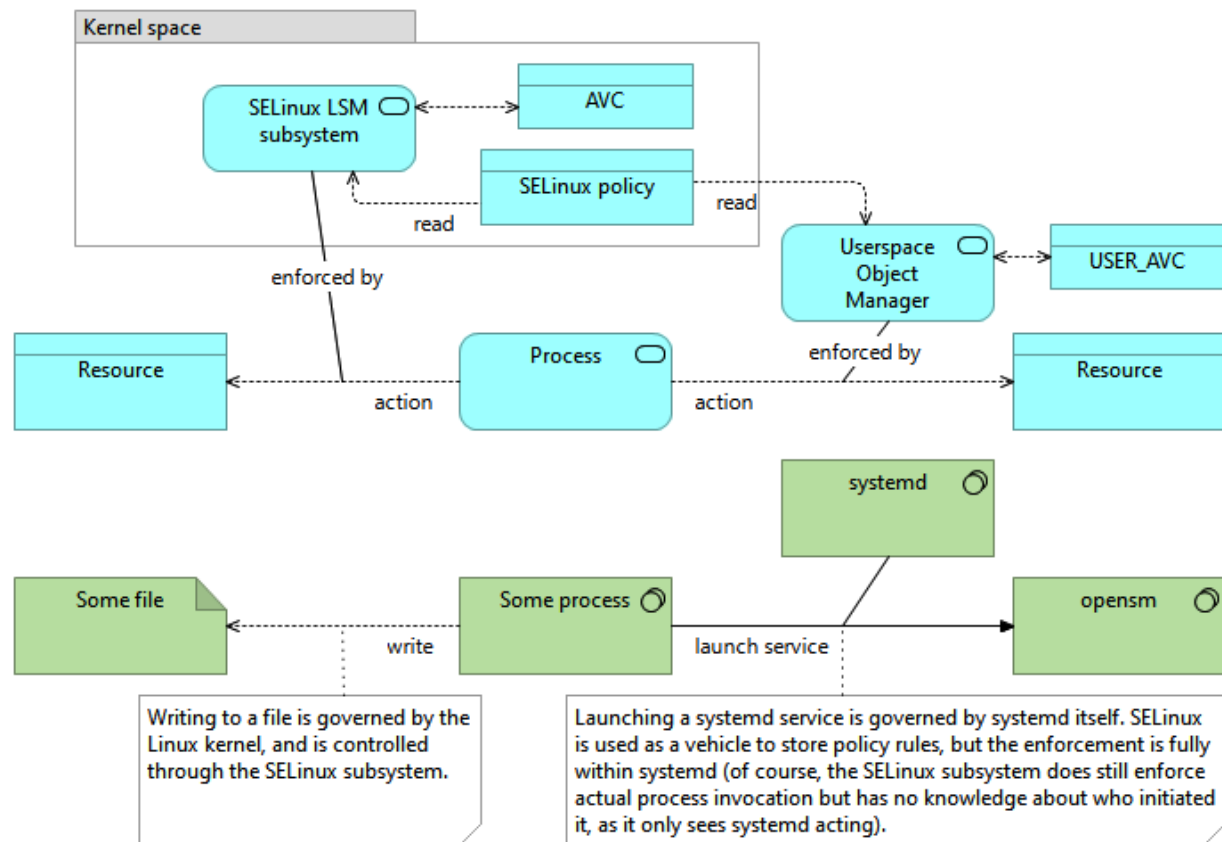


Chapter 5: Controlling Network Communications

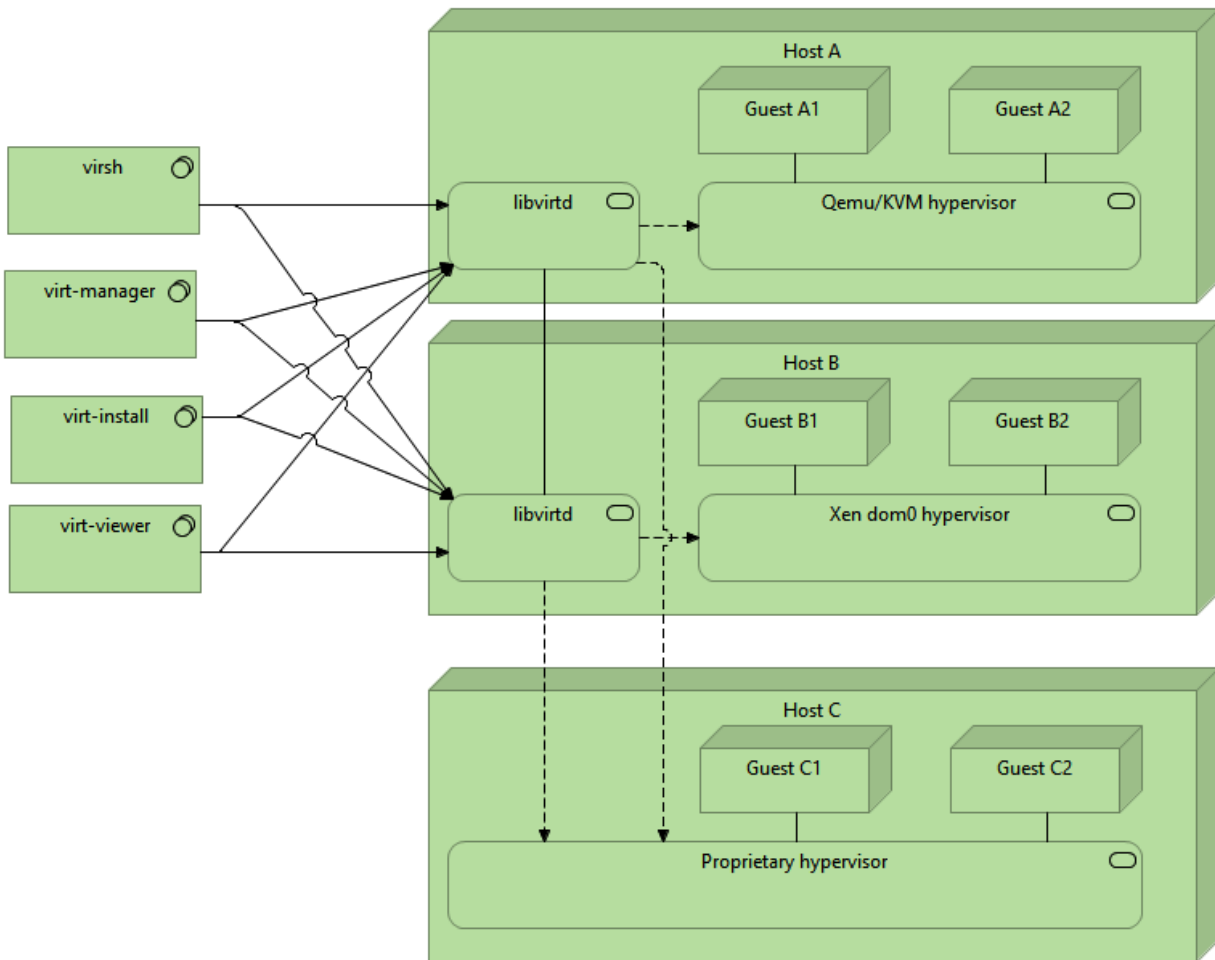




Chapter 7: Configuring Application-Specific SELinux Controls



Chapter 9: Secure Virtualization



Chapter 13: Analyzing Policy Behavior

/home/livuser/policy.31 - apol

File Workspace Edit Permission Map Help

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1: Summary

SELinux Policy Summary Show: ☐ Notes

Policy Properties

- MLS: enabled
- Policy Version: 32
- Unknown Permissions: allow
- Policy Capabilities: cgroup_seclabel, extended_socket_class

Other

- Permissive Types: 0
- Defaults: 7
- Typebounds: 0

Constraint Counts

- constrain: 72
- validatetrans: 0
- misconstrain: 72
- misvalidatetrans: 0

Component Counts

- Classes: 131
- Permissions: 439
- Types: 4981
- Attributes: 253
- Roles: 14
- Users: 8
- Booleans: 336
- Sensitivities: 1
- Categories: 1024

Rule Counts

- allow: 61966
- allowxperm: 0
- auditallow: 168
- auditallowxperm: 0
- neverallow: 0
- neverallowxperm: 0
- dontaudit: 7659
- dontauditxperm: 0
- type_transition: 254460
- type_change: 87
- type_member: 35
- allow (role): 37
- role_transition: 429
- range_transition: 6102

Labeling Counts

- lbendportcons: 0
- lbkeycons: 0
- Initial SIDs: 27
- fs_use_*: 33
- Genfscon: 105
- Portcon: 642
- Netifcon: 0
- Nodecon: 0

New Analysis



Choose a new analysis to start:

- ▼ Analyses
 - Domain Transition Analysis
 - Information Flow Analysis
- ▼ Components
 - Booleans
 - Categories
 - Commons
 - Object Classes
 - Roles
 - Sensitivities
 - Type Attributes
 - Types
 - Users
- ▼ General
 - Summary
- ▼ Labeling
 - Fs_use_* Statements
 - Genfscon Statements
 - Infiniband Endport Contexts
 - Infiniband Partition Key Contexts
 - Initial SID Statements
 - Network Interface Contexts
 - Network Node Contexts
 - Network Port Contexts
- ▼ Other
 - Bounds
 - Defaults
- ▼ Rules
 - Constraints
 - MLS Rules
 - RBAC Rules
 - TE Rules

Cancel

OK

/home/liveuser/policy.31 - apol

FileWorkspaceEditPermission MapHelp

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1: Summary

2: Types

Types

Show: ☒ Criteria ☐ Notes

Type Browser

motion_t

motion_unit_file_t

motion_var_run_t

mount_ecryptfs_exec_t

mount_ecryptfs_t

mount_ecryptfs_tmpfs_t

mount_exec_t

mount_loopback_t

mount_t

mount_tmp_t

mount_var_run_t

mountd_client_packet_t

mountd_port_t

mountd_server_packet_t

mouse_device_t

movaz_ssc_client_packet_t

movaz_ssc_port_t

movaz_ssc_server_packet_t

mozilla_conf_t

mozilla_exec_t

mozilla_home_t

mozilla_input_xevent_t

mozilla_plugin_config_exec_t

mozilla_plugin_config_t

mozilla_plugin_exec_t

Search Criteria

Type Name

☐ Regex

Attributes

abrt_domain

admindomain

afs_domain

antivirus_domain

application_domain_type

application_exec_type

base_file_type

☒ Any

☐ Equal

Clear

Invert

Permissive

☐ Permissive

Apply

Results

Raw Results

Name	Attributes	
NetworkManager_etc_rw_t	configfile, file_type, non_auth_file_type, non_security_file_type	
NetworkManager_etc_t	configfile, file_type, non_auth_file_type, non_security_file_type	
NetworkManager_exec_t	application_exec_type, direct_init_entry, entry_type, exec_type, file_type, non_auth_file_type, non_security_file_type, systemprocess_entry	
NetworkManager_initrc_exec_t	entry_type, exec_type, file_type, init_script_file_type, non_auth_file_type, non_security_file_type	

4981 type(s) found.

/home/liveuser/policy.31 - apol

FileWorkspaceEditPermission MapHelp

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1: Summary

2: Types

3: TE Rules

Type Enforcement Rule Query

Show: ☒ Criteria ☐ Notes

Rule Type

☒ Allow

☐ Neverallow

☐ Auditallow

☐ Dontaudit

Clear

☒ Allowxperms

☐ Neverallowxperms

☐ Auditallowxperms

☐ Dontauditxperms

Select All

☐ Type_transition

☐ Type_change

☐ Type_member

Source Type/Attribute

mount_t

☒ Indirect

☐ Regex

Target Type/Attribute

glusterd_t

☒ Indirect

☐ Regex

Object Class

alg_socket

appletalk_socket

association

atmpvc_socket

Clear

Invert

Permission Set

accept

acceptfrom

access

Enter extended permissions here.

Clear

☐ Match All

Invert

☐ Equal

Default Type

☐ Regex

Booleans in Conditional Expression

abrt_anon_write

abrt_handle_event

Clear

☐ Equal

Apply

Results

Raw Results

Rule Type	Source	Target	Object Class	Permissions/Default Type	Conditional Expression
allow	unconfined_domain_type	domain	qipcrt_socket	accept, append, bind, connect, create, getattr, getopt, ioctl, listen, lock, map, name_bind, read, recv_msg, recvfrom, relabelfrom, relabelto, send_msg, sendto, setattr, setopt, shutdown, write	
allow	unconfined_domain_type	domain	packet_socket	accept, append, bind, connect, create, getattr, getopt, ioctl, listen, lock, map, name_bind, read, recv_msg, recvfrom, relabelfrom, relabelto, send_msg, sendto, setattr, setopt,	

87 type enforcement rule(s) found.

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FileWorkspaceEditPermission MapHelp

New AnalysisCtrl+N

New Analysis From SettingsCtrl+Shift+N

Load Tab SettingsCtrl+L

Save Tab SettingsCtrl+S

Load WorkspaceCtrl+Shift+L

Save WorkspaceCtrl+Shift+S

2: Types

3: TE Rules

Typ

Show: CriteriaNotes

allow

☐ Dontaudit

Clear

☒ Allowxperms

☐ Neverallowxperms

☐ Auditallowxperms

☐ Dontauditxperms

Select All

☐ Type_transition

☐ Type_change

☐ Type_member

Source Type/Attribute

mount_t

☒ Indirect

☐ Regex

Target Type/Attribute

glusterd_t

☒ Indirect

☐ Regex

Object Class

alg_socket

appletalk_socket

association

atmpvc_socket

Clear

Invert

Permission Set

accept

acceptfrom

access

Enter extended permissions here.

☐ Match All

Clear

Invert

☐ Equal

Default Type

☐ Regex

Booleans in Conditional Expression

abrt_anon_write

abrt_handle_event

Clear

☐ Equal

Apply

ResultsRaw Results

Rule Type	Source	Target	Object Class	Permissions/Default Type	Conditional Expre
allow	unconfined_domain_type	domain	qipcrt_socket	accept, append, bind, connect, create, getattr, getopt, ioctl, listen, lock, map, name_bind, read, rcv_msg, rcvfrom, relabelfrom, relabelto, send_msg, sendto, setattr, setopt, shutdown, write	
allow	unconfined_domain_type	domain	packet_socket	accept, append, bind, connect, create, getattr, getopt, ioctl, listen, lock, map, name_bind, read, rcv_msg, rcvfrom, relabelfrom, relabelto, send_msg, sendto, setattr, setopt,	

/home/liveuser/policy.31 - apol

FileWorkspaceEditPermission MapHelp

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1: Summary

2: Types

3: TE Rules

4: Domain Transition Analysis

Domain Transition Analysis

Show: ☒ Criteria ☐ Notes

Source Domain

staff_t

Analysis Mode

☒ Shortest paths

☐ All paths up to 3 steps - +

☐ Transitions out of the source domain

☐ Transitions into the target domain

Options

Reverse: ☐

Limit results: 20 + -

Excluded Types: Edit...

Target Domain

unconfined_t

Apply

Raw Results

Browser

Domain transition path 1:
Step 1: staff_t -> init_t

Domain transition rule(s):
allow staff_t init_t:process transition;

Set execution context rule(s):
allow staff_t staff_t:process { dyntransition fork getrlimit noatsecure rlimitinh setcurrent setexec setfscreate setkeycreate setrlimit

Entrypoint init_exec_t:
Domain entrypoint rule(s):
allow init_t init_exec_t:file { entrypoint execute execute_no_trans ioctl lock map open read };

File execute rule(s):
allow staff_t init_exec_t:file { execute execute_no_trans getattr ioctl map open read };

Type transition rule(s):
type_transition staff_t init_exec_t:process init_t;

3 domain transition path(s) found.

/home/liveuser/policy.31 - apol

FileWorkspaceEditPermission MapHelp

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1: Summary

2: Types

3: TE Rules

4: Domain Transition Analysis

5: Information Flow Analysis

Information Flow Analysis

Show: ☒ Criteria ☐ Notes

Source Type

staff_t

Analysis Mode

☒ Shortest paths

☐ All paths up to 3 steps - +

☐ Flows out of the source type

☐ Flows into the target type

Options

Minimum permission weight: 10 + -

Limit results: 20 + -

Excluded Types: Edit...

Excluded Permissions: Edit...

Target Type

unconfined_t

Apply

Raw Results

Browser

Flow 1:

Step 1: staff t -> unconfined t

allow application_domain_type privfd:fd use;

allow application_domain_type userdomain:fifo_file { append getattr ioctl lock read write };

allow application_domain_type userdomain:fifo_file { append getattr ioctl lock read write };

allow domain domain:fd use; [domain_fd_use]:True

allow domain domain:fd use; [domain_fd_use]:True

allow domain domain:key { link search };

allow domain domain:key { link search };

allow domain unconfined_t:fd use;

allow domain unconfined_t:process sigchld;

allow nsswitch_domain userdomain:key { create read setattr view write };

allow nsswitch_domain userdomain:key { create read setattr view write };

allow staff_t userdomain:unix_stream socket connectto;

allow staff_usertype unpriv_userdomain:fd use;

allow unconfined_domain_type domain:alg socket { accept append bind connect create getattr getopt ioctl listen lock map name bind re

allow unconfined_domain_type domain:appletalk socket { accept append bind connect create getattr getopt ioctl listen lock map name_b

1 information flow path(s) found.

Permission Map Editor

can_socket
cap2_usersns
cap_usersns
capability
capability2
chr_file
context
db_blob
db_column
db_database
db_datatype
db_exception
db_language
db_procedure
db_schema
db_sequence
db_table
db_tuple
db_view
dbus
dccp_socket
decnet_socket
dir
fd
fifo_file
file
filesystem
ib_socket
icmp_socket
ieee802154_socket
infiniband_endport
infiniband_pkey
ipc

associate

None

1

- +

create

Write

1

- +

destroy

Write

1

- +

getattr

Read

1

- +

read

Read

10

- +

setattr

Write

1

- +

unix_read

Read

3

- +

unix_write

Write

3

- +

write

Write

10

- +

Cancel

OK

Chapter 15: Using the Reference Policy

