

Welcome !

***Me,
Gökmen Göksel
a Pardus Developer
gokmen@pardus.org.tr***

Let's start...

A new infrastructure.



COMAR

CO`n`figuration MA`n`ageR

An amazing desktop environment.



KDE

K Desktop Environment

Merge them.



Pardus

A shiny distro.

What are common actions for a desktop computer user ?

***Surfing the Internet, Listening music,
Watching movies, Organizing files...***

For a KDE Developer; Building KDE from ~~SVN~~ Git.

***Who will provide a great solution for these
actions and more ?***



KDE

K Desktop Environment

So, What COMAR provides ?

System Management...

***Network Management*, Service Management,
User Management, Package Management,
Bootloader Management, Firewall
Management, Display Management...***

* When we've done the Network Management thing, there were no such solution like KDE's Network Manager or GNOME...

*These operations can be done via cli with
Python API of COMAR...*

But we need a graphical solutions ...

Solutions should be transparent to user.

All of Pardus Management tools are
KApplication

***What are the benefits of using
KApplication ?***

Applications are similar...

User Manager

User Information

Full Name: Gökmen GÖKSEL

Password:

Password (Again):

No.: 1000

Username: gokmen

Home Directory: /home/gokmen

Shell: /bin/bash

☒ Give administrator rights.

Authorizations **Groups**

- Set bridge interfaces
- Set hostname/nameserver info
- Get hostname/nameserver info
- Add user
- Change user details
- Delete user
- Add group
- Delete group
- Get user/groups
- List user authorizations
- Register new scripts
- Remove application
- List applications
- List models
- List application models
- List model applications
- Scan remote access points
- Delete connection

☒ Use system settings.

☐ Authorize user.

☐ Deny user.

Apply this policy to all actions.

OK Cancel

Password & User Account - KDE Control Module

User information such as password, name and email

 **gokmen**
Click to change your image

[Change Password...](#)

User Information

Name: Gökmen GÖKSEL

Organization: Pardus

Email address: gokmen@pardus.org.tr

SMTP server:

User ID: 1000

At Password Prompt

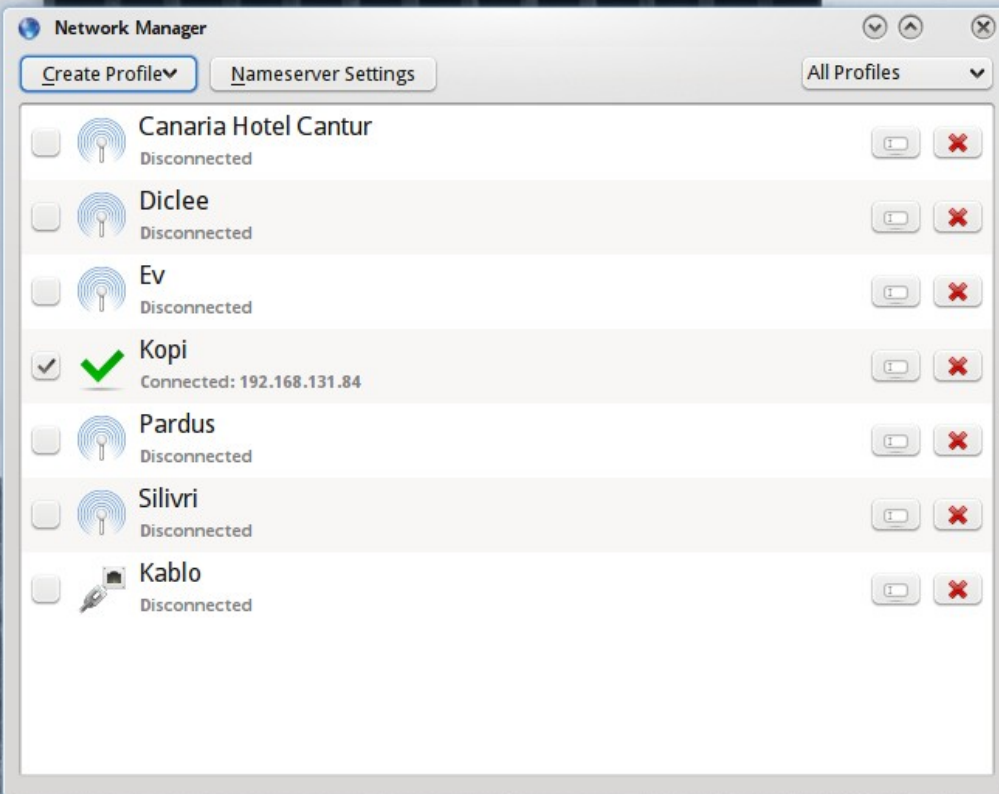
☒ Show one star for each letter

☐ Show three stars for each letter

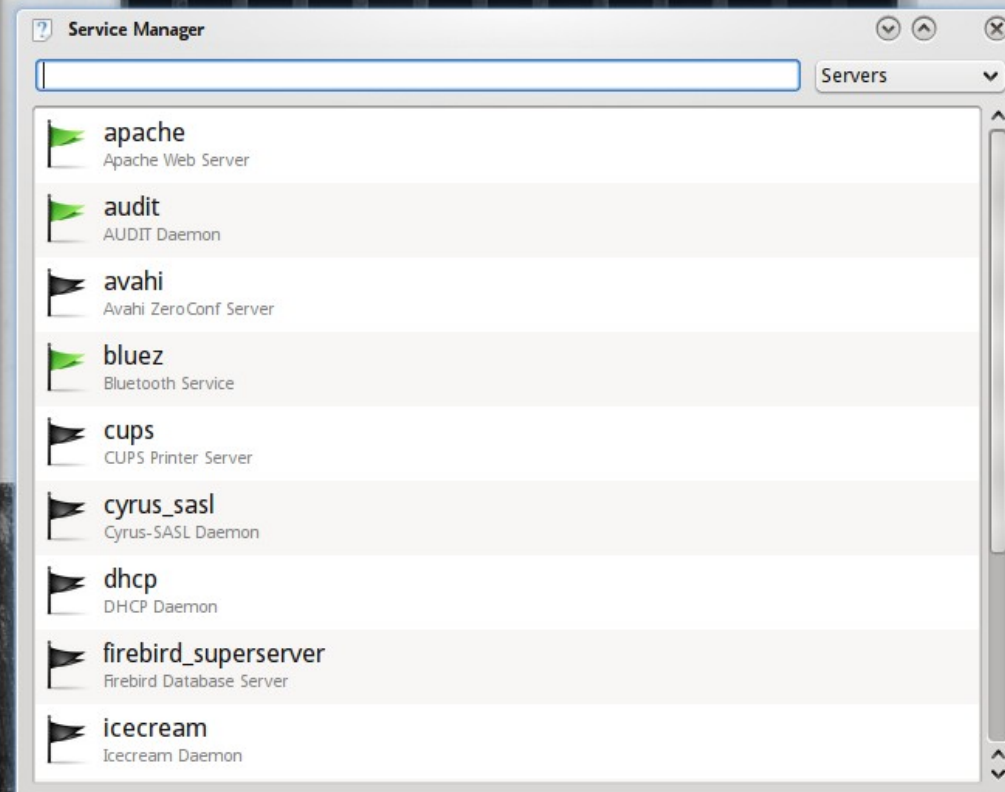
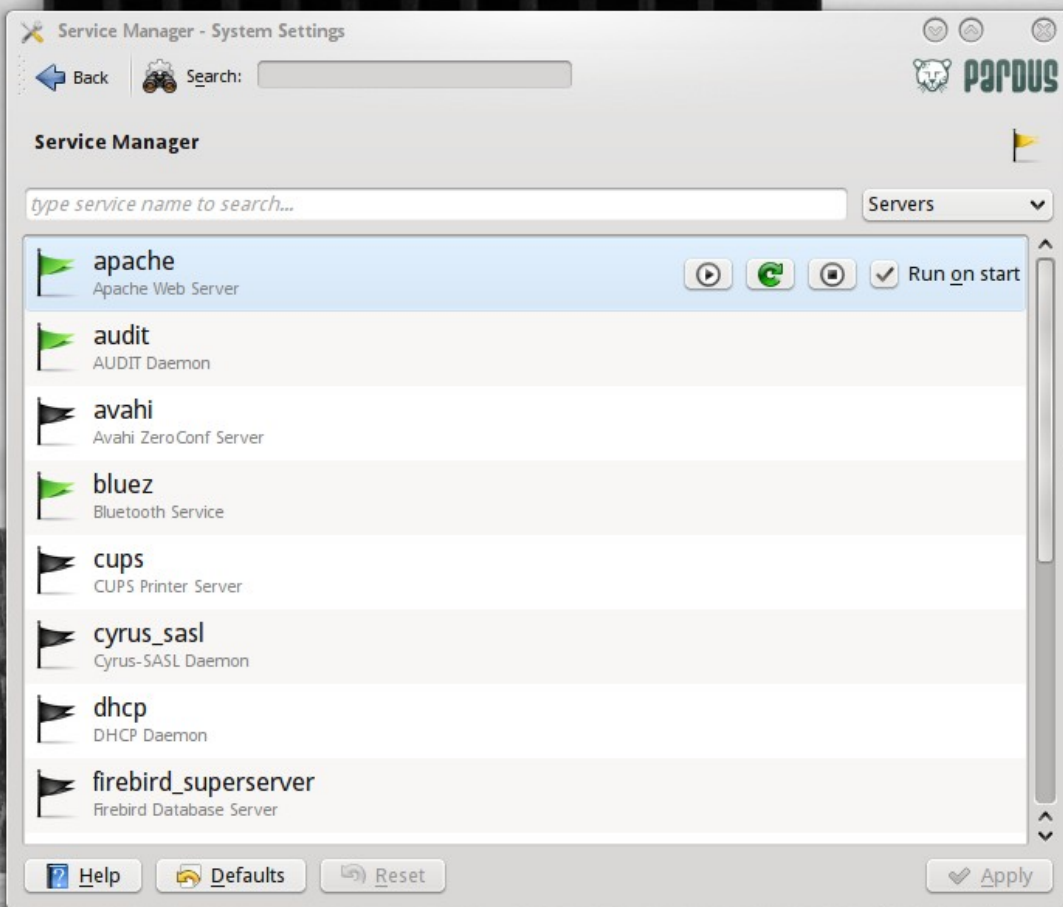
☐ Show nothing

Help Defaults OK Apply Cancel

***You can embed one application to another
one...***

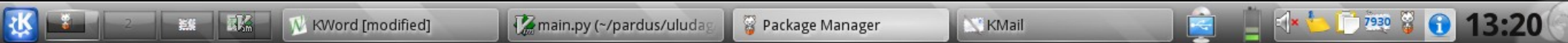
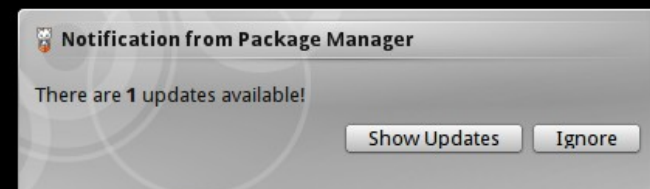
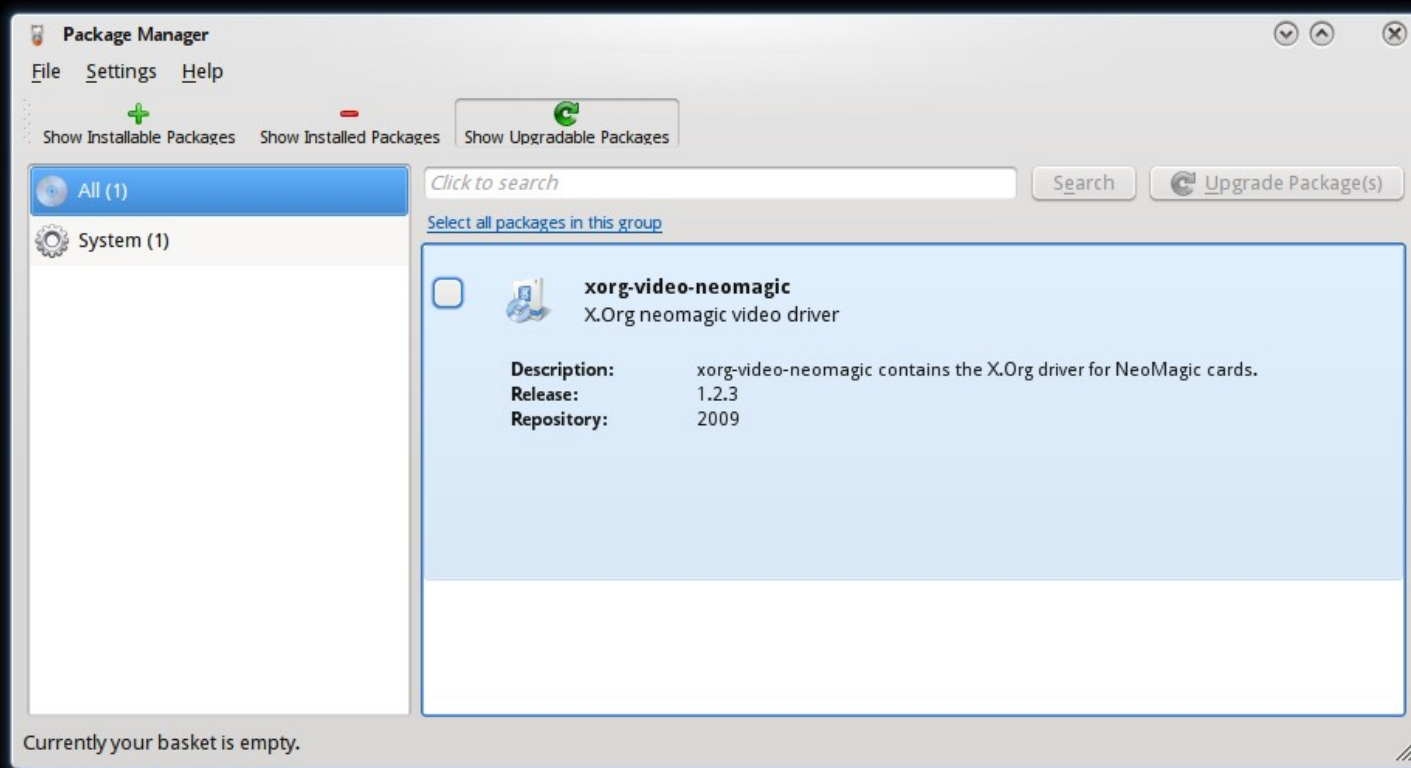


***You can use them from KDE SystemSettings as
KCModule...***



Notifications ...

Package Manager uses KNotification...



What about authentication ?

***COMAR provides PolicyKit authentication for
predefined atomic operations...***

User Manager

User Information

Full Name:

Gökmen GÖKSEL

Password:

Password (Again):

No.:

1000

Username:

gokmen

Home Directory:

/home/gokmen

Shell:

/bin/bash

☒ Give administrator rights.

Authorizations

Groups

Add group

Delete group

Get user/groups

List user authorizations

Register new scripts

Remove application

List applications

List models

List application models

List model applications

Scan remote access points

Delete connection

Set connection state

Add connection or set connection details

Get connection/device details

☐ Use system settings.

☒ Authorize user.

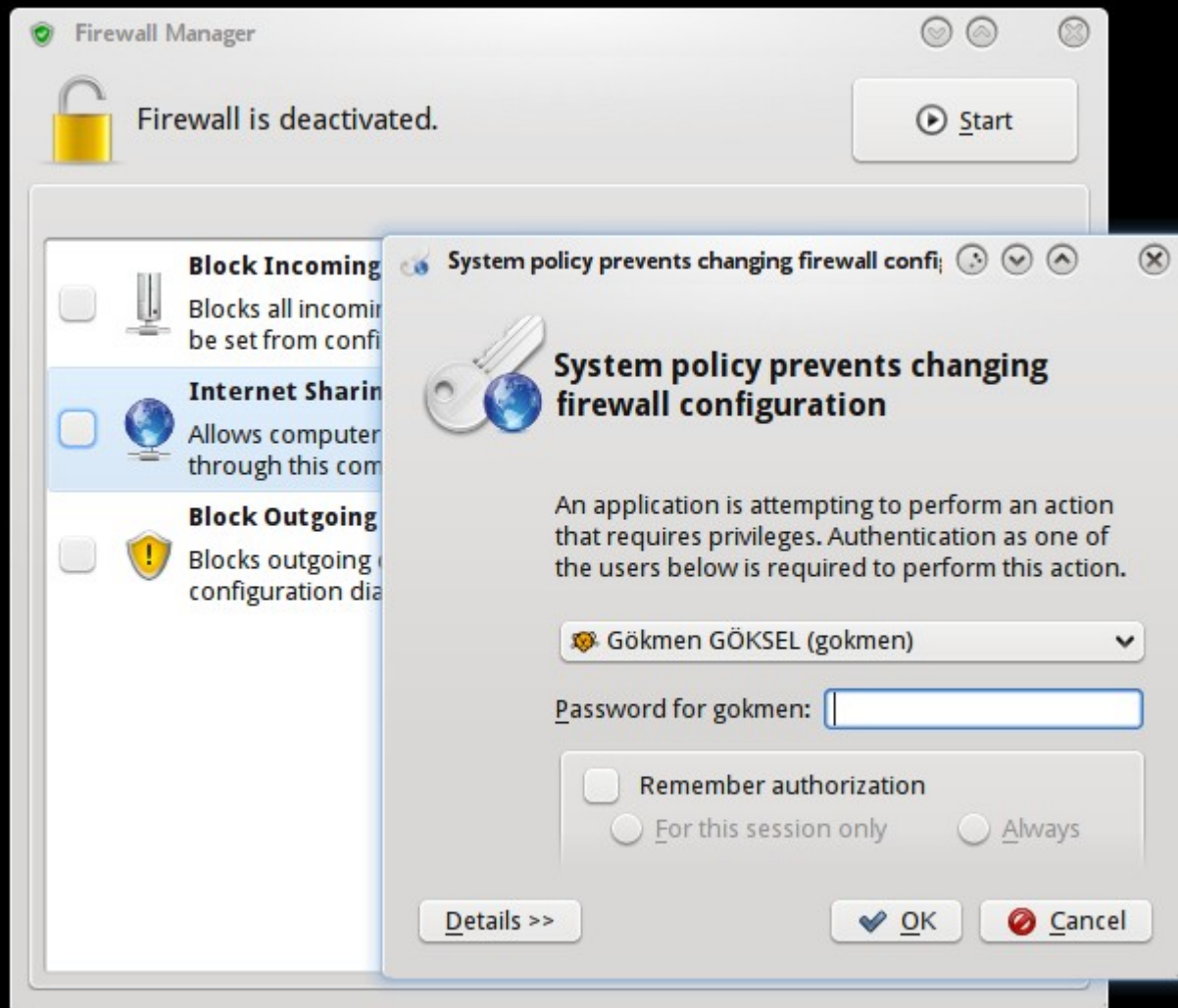
☐ Deny user.

Apply this policy to all actions.

OK

Cancel

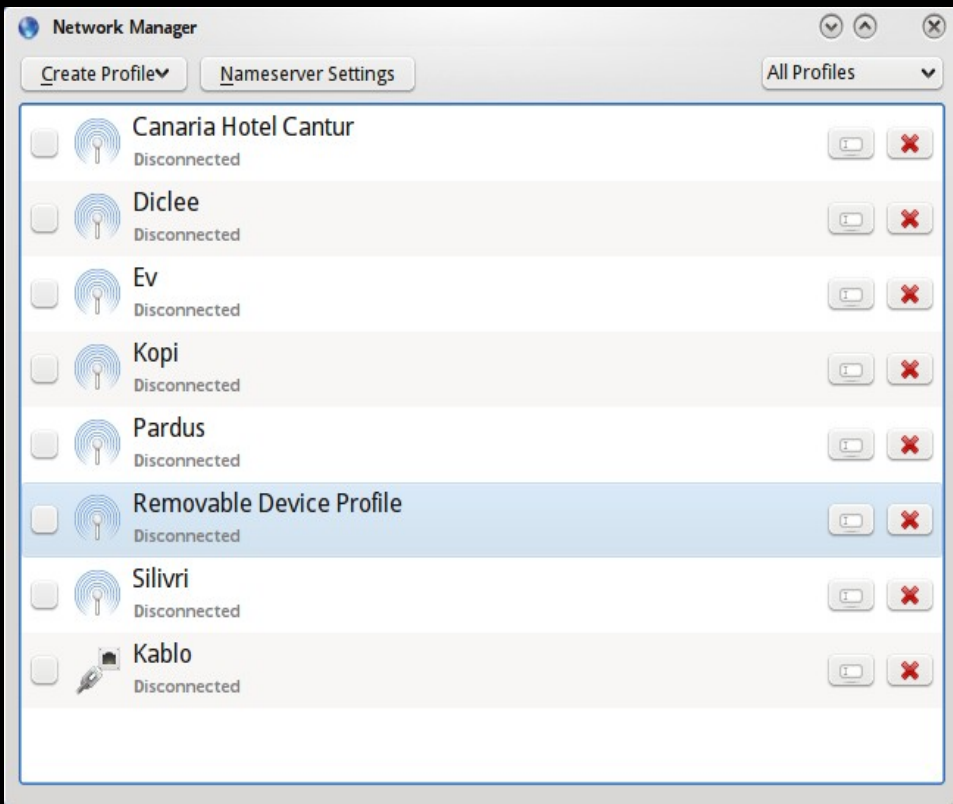
***When needs an authentication, COMAR calls
PolicyKitKDE...***



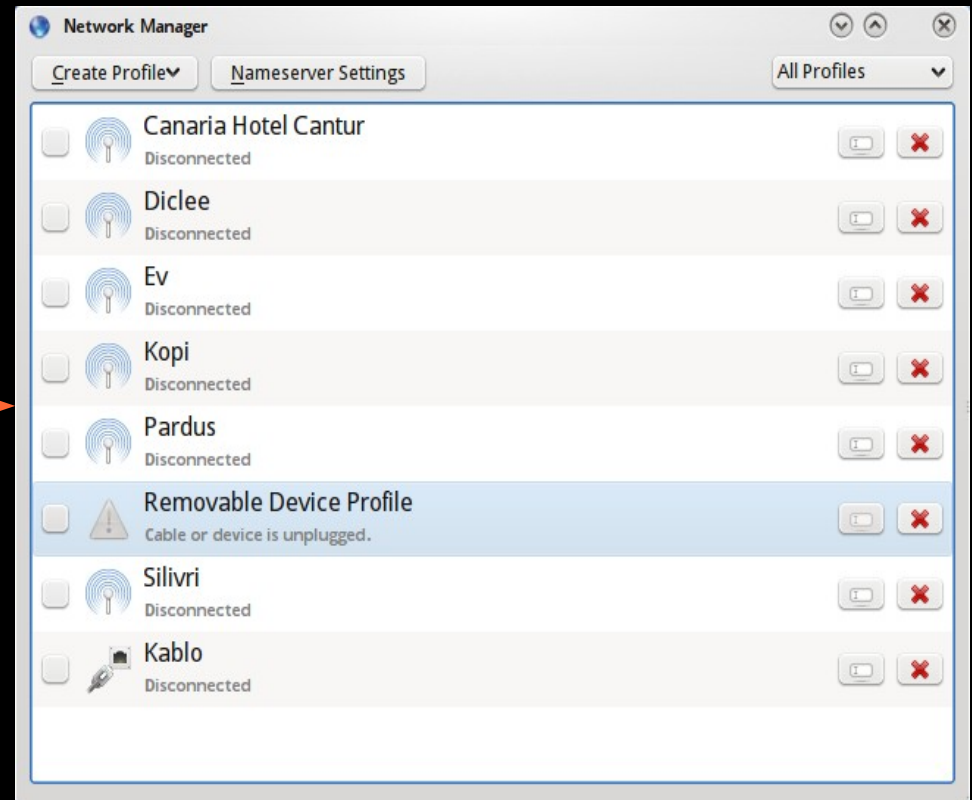
Is that all in COMAR side ?

Not, COMAR also sends a notification to client application when something changed in low-level...

Removing a network device pings the Network Manager...



Unplug the device



What about new technologies of KDE 4 ?

Plasmoids...

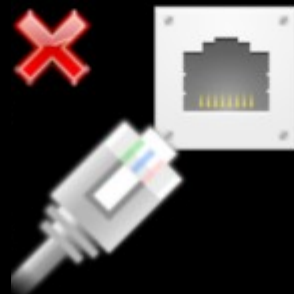
Network Manager Plasmoid ...

Ethernet
Not connected.

Kablo

Wireless
Not connected.

- Canaria Hotel Cantur
- Kopi
- Removable Device Profile
- Diclee
- Pardus
- Ev
- Silivri



Ethernet
Not connected.

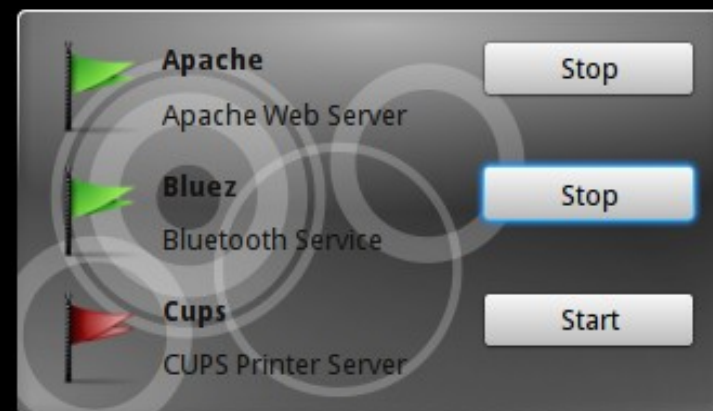
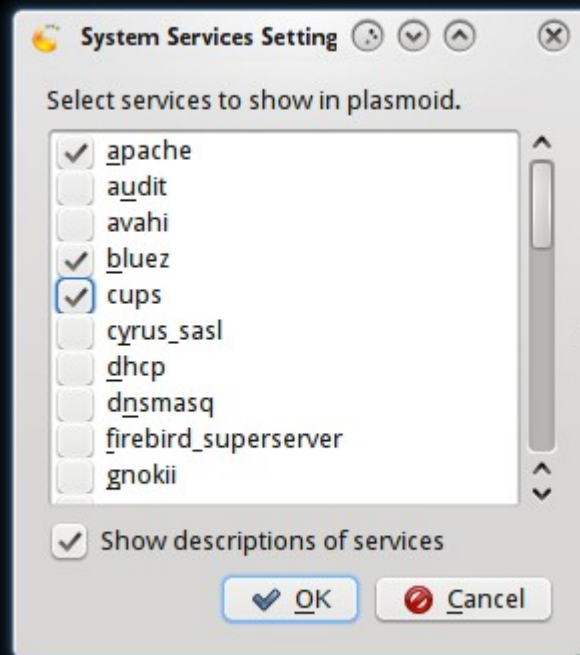
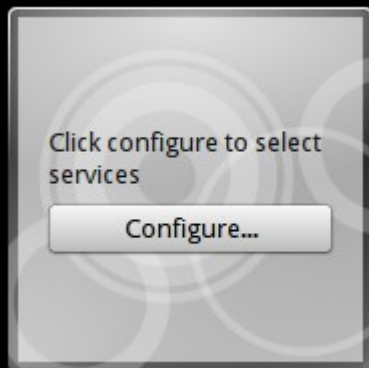
Kablo

Wireless
Connected

- Canaria Hotel Cantur
- Kopi
- Removable Device Profile
- Diclee
- ✓ Pardus - 192.168.3.205
- Ev
- Silivri

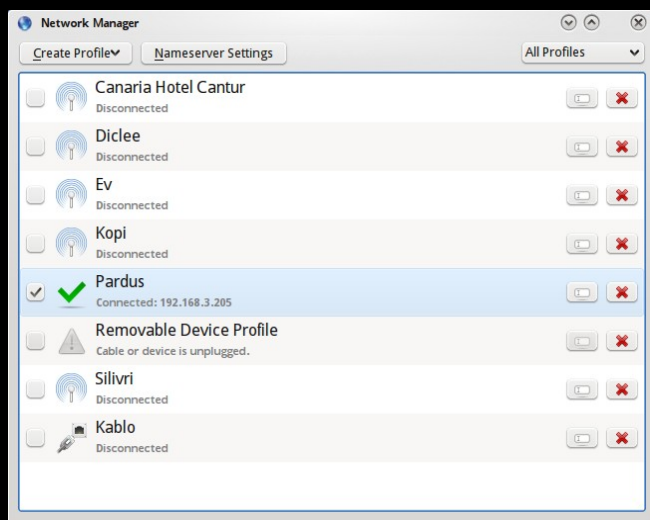


Service Manager Plasmoid ...

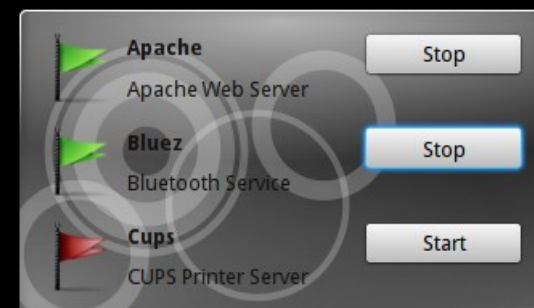
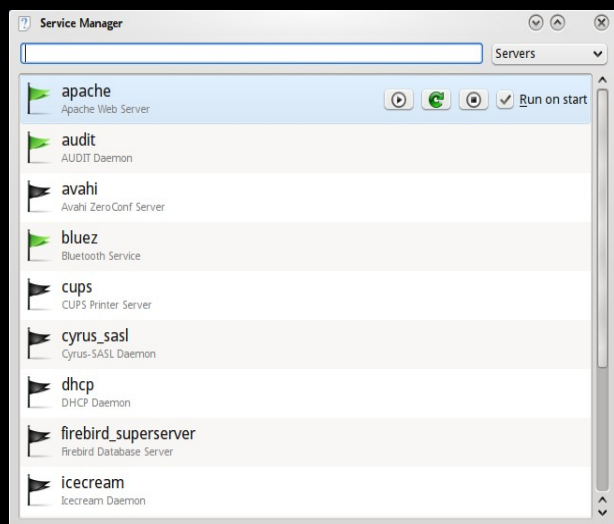
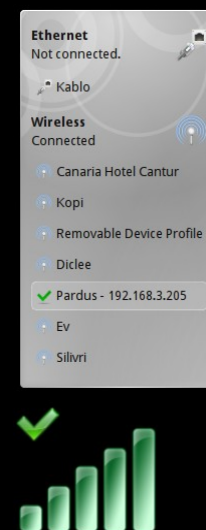


Each plasmoid connected to COMAR, so when something changed from a plasmoid, managers knows them...

More than thousand word...



Comar



Solid Support

Solid::Networking for other KDE Applications

Solid::PowerManagement for Power Consumption

Show Time !

Thanks !

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