

CUPS

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CUPS – history

- Idea came about in the early 90's.
- Originally designed around the LPD network protocol with added remote administration.
- Based on IPP (Internet Printing Protocol)
- Allows you to print locally and remotely to any network printer in the world.
- Supports authentication/encryption making it more robust and secure than the LPD protocol.

CUPS - why change?

- LPRng no longer part of Fedora Core.
- Printing won't work by default for some applications (e.g. OpenOffice)
- CUPS easily configurable - web interface if you really want it.

Possible CUPS options

- Configure a single server and on each client, create a client.conf file with ServerName directive defined.
- On each subnet, configure a server and define the BrowseAddress directive. All clients on that subnet should then see the available printers within 30 seconds.

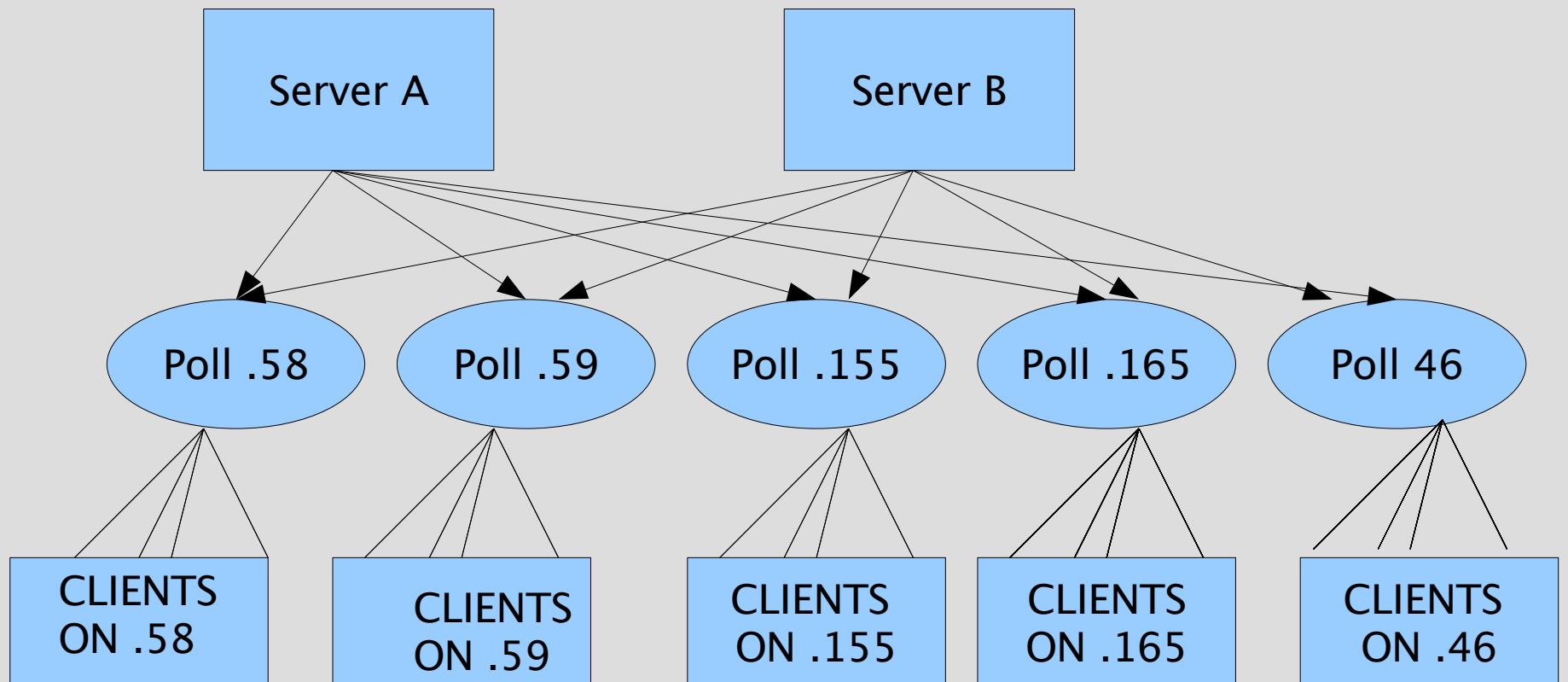
Possible CUPS options cont'd

- Configure multiple servers that broadcast printer information using the BrowseAddress directive. On each subnet, configure one* of the clients to relay printer information to all other clients on that subnet using the BrowsePoll directive.

CUPS – DICE setup

- 2 servers that know about all printers and broadcast the list to nominated machines on each subnet.
- These machines run cups-polld and relay printer information to all other clients on their subnet.

CUPS - DICE setup cont'd



CUPS - what next?

- Cups component needs a few additions so that it can run on all machines and manage configuration.
- Want to build a bit more redundancy.
- Explore the use of classes.
- Ultimately replace LPRng completely.