NAME

cupsd.conf – server configuration file for cups

DESCRIPTION

The *cupsd.conf* file configures the CUPS scheduler, *cupsd(8)*. It is normally located in the */etc/cups* directory.

Each line in the file can be a configuration directive, a blank line, or a comment. Comment lines start with the # character. The configuration directives are intentionally similar to those used by the popular Apache web server software and are described below.

DIRECTIVES

The following directives are understood by *cupsd(8)*. Consult the on-line help for detailed descriptions:

AccessLog filename

AccessLog syslog
> Defines the access log filename.

AccessLogLevel config

AccessLogLevel actions

AccessLogLevel all
> Specifies the logging level for the AccessLog file.

Allow all

Allow none

Allow host.domain.com

Allow *.domain.com

Allow ip-address

Allow ip-address/netmask

Allow ip-address/mm

Allow @IF(name)

Allow @LOCAL
> Allows access from the named hosts or addresses.

AuthClass User

AuthClass Group

AuthClass System
> Specifies the authentication class (User, Group, System) - **this directive is deprecated**.

AuthGroupName group-name
> Specifies the authentication group - **this directive is deprecated**.

AuthType None

AuthType Basic

AuthType BasicDigest

AuthType Digest

AuthType Negotiate
> Specifies the authentication type (None, Basic, BasicDigest, Digest, Negotiate)

AutoPurgeJobs Yes

AutoPurgeJobs No
> Specifies whether to purge job history data automatically when it is no longer required for quotas.

BrowseAddress ip-address

BrowseAddress @IF(name)

BrowseAddress @LOCAL
     Specifies a broadcast address for outgoing printer information packets.

BrowseAllow all

BrowseAllow none

BrowseAllow host.domain.com

BrowseAllow *.domain.com

BrowseAllow ip-address

BrowseAllow ip-address/netmask

BrowseAllow ip-address/mm

BrowseAllow @IF(name)

BrowseAllow @LOCAL
     Allows incoming printer information packets from the named host or address.

BrowseDeny all

BrowseDeny none

BrowseDeny host.domain.com

BrowseDeny *.domain.com

BrowseDeny ip-address

BrowseDeny ip-address/netmask

BrowseDeny ip-address/mm

BrowseDeny @IF(name)

BrowseDeny @LOCAL
     Denies incoming printer information packets from the named host or address.

BrowseInterval seconds
     Specifies the maximum interval between printer information broadcasts.

BrowseLDAPBindDN
     Specifies the LDAP domain name to use when registering printers.

BrowseLDAPCACertFile
     Specifies the SSL certificate authority file to use.

BrowseLDAPDN
     Specifies the LDAP domain name to use when discovering printers.

BrowseLDAPPassword
     Specifies the password to use when accessing the LDAP server.

BrowseLDAPServer
     Specifies the LDAP server to use.

BrowseOrder allow,deny

BrowseOrder deny,allow
     Specifies the order of printer information access control (allow,deny or deny,allow)

BrowsePoll host-or-ip-address
     Specifies a server to poll for printer information.

BrowsePort port
> Specifies the port to listen to for printer information packets.

BrowseProtocols [All] [CUPS] [DNSSD] [LDAP] [SLP]
> Specifies the protocols to use for printer browsing.

BrowseLocalProtocols [All] [CUPS] [DNSSD] [LDAP] [SLP]
> Specifies the protocols to use for local printer browsing.

BrowseRemoteProtocols [All] [CUPS] [DNSSD] [LDAP] [SLP]
> Specifies the protocols to use for remote printer browsing.

BrowseRelay from-address to-address
> Specifies that printer information packets should be relayed from one host or network to another.

BrowseShortNames Yes

BrowseShortNames No
> Specifies whether remote printers will use short names ("printer") or not ("printer@server"). This option is ignored if more than one remote printer exists with the same name.

BrowseTimeout seconds
> Specifies the maximum interval between printer information updates before remote printers will be removed from the list of available printers.

BrowseWebIF Yes

BrowseWebIF No
> Specifies whether the CUPS web interface is advertised via DNS-SD.

Browsing Yes

Browsing No
> Specifies whether or not remote printer browsing should be enabled.

Classification banner
> Specifies the security classification of the server.

ClassifyOverride Yes

ClassifyOverride No
> Specifies whether to allow users to override the classification of individual print jobs.

ConfigFilePerm mode
> Specifies the permissions for all configuration files that the scheduler writes.

ConfigurationChangeRestriction all

ConfigurationChangeRestriction root-only

ConfigurationChangeRestriction none
> Specifies the degree of restriction for changes to cupsd.conf. Keywords dealing with filenames, paths, and users are security-sensitive. Changes to them via HTTP are forbidden by default ("all"). The value "none" removes any restriction altogether (note that this is unsafe). The value "root-only" allows only users authorised as user "root" to adjust security-sensitive configuration settings, but note that users adjusting settings using polkit (via cups-pk-helper) are authenticated as user "root".

DataDir path
> Specified the directory where data files can be found.

DefaultAuthType Basic

DefaultAuthType BasicDigest

DefaultAuthType Digest

DefaultAuthType Negotiate
> Specifies the default type of authentication to use.

DefaultCharset charset
> Specifies the default character set to use for text.

DefaultEncryption Never

DefaultEncryption IfRequested

DefaultEncryption Required
> Specifies the type of encryption to use for authenticated requests.

DefaultLanguage locale
> Specifies the default language to use for text and web content.

DefaultPaperSize Auto

DefaultPaperSize None

DefaultPaperSize sizename
> Specifies the default paper size for new print queues. "Auto" uses a locale- specific default, while "None" specifies there is no default paper size.

DefaultPolicy policy-name
> Specifies the default access policy to use.

DefaultShared Yes

DefaultShared No
> Specifies whether local printers are shared by default.

Deny all

Deny none

Deny host.domain.com

Deny *.domain.com

Deny ip-address

Deny ip-address/netmask

Deny ip-address/mm

Deny @IF(name)

Deny @LOCAL
> Denies access to the named host or address.

DirtyCleanInterval seconds
> Specifies the delay for updating of configuration and state files. A value of 0 causes the update to happen as soon as possible, typically within a few milliseconds.

DocumentRoot directory
> Specifies the root directory for the internal web server documents.

Encryption IfRequested

Encryption Never

Encryption Required
> Specifies the level of encryption that is required for a particular location.

ErrorLog filename

ErrorLog syslog
> Specifies the error log filename.

FatalErrors none

FatalErrors all -kind [... -kind]

FatalErrors kind [... kind]
>   Specifies which errors are fatal, causing the scheduler to exit. "Kind" is "browse", "config", "listen", "log", or "permissions".

FileDevice Yes

FileDevice No
>   Specifies whether the file pseudo-device can be used for new printer queues.

ErrorPolicy abort-job
>   Specifies that a failed print job should be aborted (discarded) unless otherwise specified for the printer.

ErrorPolicy retry-job
>   Specifies that a failed print job should be retried at a later time unless otherwise specified for the printer.

ErrorPolicy retry-this-job
>   Specifies that a failed print job should be retried immediately unless otherwise specified for the printer.

ErrorPolicy stop-printer
>   Specifies that a failed print job should stop the printer unless otherwise specified for the printer. The 'stop-printer' error policy is the default.

FilterLimit limit
>   Specifies the maximum cost of filters that are run concurrently.

FilterNice nice-value
>   Specifies the scheduling priority ("nice" value) of filters that are run to print a job.

FontPath directory[:directory:...]
>   Specifies the search path for fonts.

Group group-name-or-number
>   Specifies the group name or ID that will be used when executing external programs.

HideImplicitMembers Yes

HideImplicitMembers No
>   Specifies whether to hide members of implicit classes.

HostNameLookups On

HostNameLookups Off

HostNameLookups Double
>   Specifies whether or not to do reverse lookups on client addresses.

ImplicitAnyClasses Yes

ImplicitAnyClasses No
>   Specifies whether or not to create implicit classes for local and remote printers, e.g. "AnyPrinter" from "Printer", "Printer@server1", and "Printer@server2".

ImplicitClasses Yes

ImplicitClasses No
>   Specifies whether or not to create implicit classes from identical remote printers.

Include filename
>   Includes the named file.

JobKillDelay seconds
    Specifies the number of seconds to wait before killing the filters and backend associated with a can-
    celed or held job.

JobRetryInterval seconds
    Specifies the interval between retries of jobs in seconds.

JobRetryLimit count
    Specifies the number of retries that are done for jobs.

KeepAlive Yes

KeepAlive No
    Specifies whether to support HTTP keep-alive connections.

KeepAliveTimeout seconds
    Specifies the amount of time that connections are kept alive.

<Limit operations> ... </Limit>
    Specifies the IPP operations that are being limited inside a policy.

<Limit methods> ... </Limit>

<LimitExcept methods> ... </LimitExcept>
    Specifies the HTTP methods that are being limited inside a location.

LimitRequestBody
    Specifies the maximum size of any print job request.

Listen ip-address:port

Listen *:port

Listen /path/to/domain/socket
    Listens to the specified address and port or domain socket path.

<Location /path> ... </Location>
    Specifies access control for the named location.

LogDebugHistory #-messages
    Specifies the number of debugging messages that are logged when an error occurs in a print job.

LogFilePerm mode
    Specifies the permissions for all log files that the scheduler writes.

LogLevel alert

LogLevel crit

LogLevel debug2

LogLevel debug

LogLevel emerg

LogLevel error

LogLevel info

LogLevel none

LogLevel notice

LogLevel warn
    Specifies the logging level for the ErrorLog file.

LogTimeFormat standard

LogTimeFormat usecs
    Specifies the format of the date and time in the log files.

MaxClients number
    Specifies the maximum number of simultaneous clients to support.

MaxClientsPerHost number
    Specifies the maximum number of simultaneous clients to support from a single address.

MaxCopies number
    Specifies the maximum number of copies that a user can print of each job.

MaxJobs number
    Specifies the maximum number of simultaneous jobs to support.

MaxJobsPerPrinter number
    Specifies the maximum number of simultaneous jobs per printer to support.

MaxJobsPerUser number
    Specifies the maximum number of simultaneous jobs per user to support.

MaxLogSize number-bytes
    Specifies the maximum size of the log files before they are rotated (0 to disable rotation)

MaxRequestSize number-bytes
    Specifies the maximum request/file size in bytes (0 for no limit)

MultipleOperationTimeout seconds
    Specifies the maximum amount of time to allow between files in a multiple file print job.

Order allow,deny

Order deny,allow
    Specifies the order of HTTP access control (allow,deny or deny,allow)

PageLog filename

PageLog syslog
    Specifies the page log filename.

PageLogFormat format string
    Specifies the format of page log lines.

PassEnv variable [... variable]
    Passes the specified environment variable(s) to child processes.

<Policy name> ... </Policy>
    Specifies access control for the named policy.

Port number
    Specifies a port number to listen to for HTTP requests.

PreserveJobFiles Yes

PreserveJobFiles No
    Specifies whether or not to preserve job files after they are printed.

PreserveJobHistory Yes

PreserveJobHistory No
    Specifies whether or not to preserve the job history after they are printed.

Printcap

Printcap filename
    Specifies the filename for a printcap file that is updated automatically with a list of available printers
    (needed for legacy applications); specifying Printcap with no filename disables printcap generation.

PrintcapFormat bsd

PrintcapFormat plist

PrintcapFormat solaris
>Specifies the format of the printcap file.

PrintcapGUI

PrintcapGUI gui-program-filename
>Specifies whether to generate option panel definition files on some operating systems. When provided with no program filename, disables option panel definition files.

ReloadTimeout seconds
>Specifies the amount of time to wait for job completion before restarting the scheduler.

RemoteRoot user-name
>Specifies the username that is associated with unauthenticated root accesses.

RequestRoot directory
>Specifies the directory to store print jobs and other HTTP request data.

Require group group-name-list

Require user user-name-list

Require valid-user
>Specifies that user or group authentication is required.

RIPCache bytes
>Specifies the maximum amount of memory to use when converting images and PostScript files to bitmaps for a printer.

Satisfy all

Satisfy any
>Specifies whether all or any limits set for a Location must be satisfied to allow access.

ServerAdmin user@domain.com
>Specifies the email address of the server administrator.

ServerAlias hostname
>Specifies an alternate name that the server is known by. The special name "*" allows any name to be used.

ServerBin directory
>Specifies the directory where backends, CGIs, daemons, and filters may be found.

ServerCertificate filename
>Specifies the encryption certificate to use.

ServerKey filename
>Specifies the encryption key to use.

ServerName hostname-or-ip-address
>Specifies the fully-qualified hostname of the server.

ServerRoot directory
>Specifies the directory where the server configuration files can be found.

ServerTokens Full

ServerTokens Major

ServerTokens Minimal

ServerTokens Minor

ServerTokens None

ServerTokens OS

ServerTokens ProductOnly
  Specifies what information is included in the Server header of HTTP responses.

SetEnv variable value
  Set the specified environment variable to be passed to child processes.

SSLListen
  Listens on the specified address and port for encrypted connections.

SSLOptions None

SSLOptions [*NoEmptyFragments*] [*AllowRC4*] [*Allow SSL3*]
  Sets SSL/TLS protocol options for encrypted connections. By default, CUPS only supports encryption using TLS v1.0 or higher using known secure cipher suites. The *NoEmptyFragments* option allows CUPS to work with Microsoft Windows with the FIPS conformance mode enabled. The *AllowRC4* option enables the 128-bit RC4 cipher suites, which are required for some older clients that do not implement newer ones. The *AllowSSL3* option enables SSL v3.0, which is required for some older clients that do not support TLS v1.0.

SSLPort
  Listens on the specified port for encrypted connections.

SyncOnClose Yes

SyncOnClose No
  Specifies whether the scheduler calls *fsync(2)* after writing configuration state files. The default is Yes.

SystemGroup group-name [group-name ...]
  Specifies the group(s) to use for System class authentication.

TempDir directory
  Specifies the directory where temporary files are stored.

Timeout seconds
  Specifies the HTTP request timeout in seconds.

User user-name
  Specifies the user name or ID that is used when running external programs.

SEE ALSO
classes.conf(5), *cupsd(8)*, *mime.convs(5)*, *mime.types(5)*, *printers.conf(5)*, *subscriptions.conf(5)*, http://localhost:631/help

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