
Notes:

- Admin Guide (AG) https://download.collobos.com/en/presto2/files/administrator_guide.pdf
 - Quick Guide https://download.collobos.com/en/presto2/files/quick_start.pdf
 - Install - Presto can be installed on a physical or virtual machine. If you don't already have a "Print Sever" we'd recommend spinning one up as your de-facto "Mobile Print Sever". If you are spinning up a new server be sure to install printers locally in this manner. [LINK](#)
 - DNS Server - Presto can be installed on a BIND or UNBOUND DNS server but CANNOT be installed on a Windows DNS sever because of a BUG in Windows DNS. For BIND and UNBOUND you will need to bind Presto to a unique IP.
 - Domain Controller - Presto CANNOT be installed on your domain controller.
 - iOS App - Currently, the Presto App for iOS is an optional component. We are actively working to bring Presto technology to the native AirPrint experience in iOS. When that work has been completed, the Presto for iOS app will be required for iOS users who wish to do authenticated printing. At this point, only the single conditional forwarding record will be needed and all rules specified by the administrator will be usable for all mobile platforms.
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Presto Sever Set-up

Step 1 - Initial Download & Install - Presto Server	(est. 1-2 minutes)
Step 2 - DNS Config (assumes site DNS)	(est. 2 minutes per subnet)
Step 3 - Locate Services, Create Tags, Print QR Codes	(varies based on qty)
Step 4 - Create Rules	(est. 2-3 minutes per rule)
Step 5 - Google Apps Admin. Settings (Google App Environments Only)	(est. 5-10 minutes)

Step 1

Initial Download & Install

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Download file & Run Installer

[PC Installer](#)

[Mac Installer](#)

DNS site environment

Enter your Domain Credentials. Presto will attempt to automatically configure the Conditional Forwarding Record. You can “Skip” and add the record manually if you prefer. If you choose to “Skip” the auto-configuration or Presto cannot auto configure, Step 2 has configuration instructions.

Non-DNS site Environment

Select skip. Presto will utilize mDNS for all advertisement of services.

License

Add Serial Number or use Account Credentials to license the software.

Proxy

If your site uses web proxy server software, you will need to configure that when licensing Presto Server. Presto Server supports **HTTP/HTTPS** and **SOCKS5** proxies. To configure your proxy in Presto Server, type in the url of your proxy as follows:

HTTP/HTTPS

http://<IP address of proxy>:<port number of proxy>

SOCKS5

socks://<IP address of proxy>:<port number of proxy>

If your proxy needs authentication, type in the credentials in the proxy configuration screen.

Step 2

DNS Config / Create Reverse Lookup Zones / Add PTR Records (assumes site DNS)

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Be sure to run commands with **elevated** permissions on your **DNS server**.

<http://presto-support.collobos.com/knowledgebase/articles/772410-sample-dns-commands>

Sample Environment:

Presto Server IP Address:	10.0.0.3
Subnet Address 1:	192.168.11.0
Reverse	0.11.168.192
Subnet Address 2:	192.168.12.0
Reverse	0.12.168.192

Step 1: Create Conditional Forwarding Record (if record does not already exist).

```
C:\> dnscmd . /ZoneAdd presto. /dsforwarder 10.0.0.3
```

Step 2: Create Reverse Lookup Zone for **192.168.11.0**

```
C:\> dnscmd . /ZoneAdd 0.11.168.192.in-addr.arpa. /DsPrimary
```

Step 3: Create DNS-SD Browse Domain PTR records for 192.168.11.0

```
C:\> dnscmd . /RecordAdd 0.11.168.192.in-addr.arpa b._dns-sd._udp  
PTR 0.11.168.192.dnssd.presto.
```

```
C:\> dnscmd . /RecordAdd 0.11.168.192.in-addr.arpa lb._dns-sd._udp  
PTR 0.11.168.192.dnssd.presto.
```

*Repeat Steps 2 and 3 for each subnet address where you wish to see printers on iOS/OS X devices.

*Alternatively, utilize our DOS batch file - [LINK](#)

Step 2: Create Reverse Lookup Zone for **192.168.12.0**

```
C:\> dnscmd . /ZoneAdd 0.12.168.192.in-addr.arpa. /DsPrimary
```

Step 3 - Create DNS-SD Browse Domain PTR records. for **192.168.12.0**

```
C:\> dnscmd . /RecordAdd 0.12.168.192.in-addr.arpa b._dns-sd._udp  
PTR 0.12.168.192.dnssd.presto.
```

```
C:\> dnscmd . /RecordAdd 0.12.168.192.in-addr.arpa lb._dns-sd._udp  
PTR 0.12.168.192.dnssd.presto.
```

Step 3

Locate Services, Create Tags, Print QR Codes

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Select Services

Return to the Presto Server UI and select the “Services” Tab. Begin selecting services (choose multiple services at a time by selecting SHIFT). Select EDIT button at bottom.

Geolocation

After selecting EDIT button, enter the principle location address and SAVE. Repeat to specifically locate each individual service.

Create Tags

Tags are any nomenclature specific to your organization. Tags often used include: Faculty, Students, Staff, Guest, Administration. To assign a tag to a service, again select the service, then select EDIT. Above the map you can enter the appropriate tag. Separate multiple tags with a comma.

Print QR Codes

Presto automatically create QR codes for each service. The QR code is found below the map in the services tab. Affix QR Codes to the actual printer or service.

Security (iOS/OS X)

There is a “Secure” attribute to printers in Presto Server. This is only for iOS/OS X, and will cause iOS/OS X to display a login/password dialog box when printing to a printer for the first time.

Step 4

Create Rules

If **Google Apps** Environment, goto step #5 before completing #4.

Presto Rules

https://download.collobos.com/en/presto2/files/using_presto_rules.pdf

Boolean Logic

Rule creation is simple. The Presto rules engine utilizes Boolean logic. By default when a service is first discovered/created. Presto automatically creates a rule “allowing” all users to see and use the service.

Best Practices

Utilize your AD Groups and TAGS to write rules.

Conflicting Rules

Presto will not let you add an attribute to a rule that conflicts with itself. However it is possible to write two separate rules that conflict with each other. [LINK](#)

Rules can be written for:

Device	Proximity of device to location of service.
Service Name	Service Name
Service Tag	Tags created for the service.
Service Type	Service Type
User	Individual user.
User Tag	Tags created for the user.

Note for iOS/OS X

Integrating with native AirPrint on iOS/OS X causes Presto Server to know the subnet that the device is associated with but not the user that is logged into the Presto for iOS app, nor the exact location of the device. Consequently it is possible that with respect to rules regarding location and tags that reference user identity, the AirPrint printer listing on iOS/OS X might list different printers that what is seen in the Presto for iOS app.

That's it!

Congratulations, you just configured Presto and Wide Area Bonjour. Make sure that Android/Chrome/Chrome users install and configure the client Presto app.

[Troubleshooting Guide](#)

Step 5

Google Apps Admin. Settings

(For Google Apps Environments Only)

Chrome Supplemental

https://download.collobos.com/en/presto2/files/chrome_administrator_guide.pdf

Presto for Chrome makes use of Chrome's local storage facility to save network credential information and cache Magic Queue jobs.

It is very important to enable settings such that Chromebooks will allow users to save data to local storage.

Device Management

- 1 Erase all local user info, settings, and state after each sign-out**
Do not erase all local user data
- 2 Auto Update Settings**
Allow auto-updates

User Management

- 1 Force-installed Apps and Extensions**
Be sure "Presto" is added from the Chrome Web Store.
- 2 Allowed Apps and Extensions**
Be sure that "Presto" is not blocked.
- 3 Browser History**
Never save browser history.
- 4 Force Ephemeral Mode**
- 5 Erase local data when the browser is closed**
Do not erase local user data
- 6 Print Preview**
Allow using print preview.