

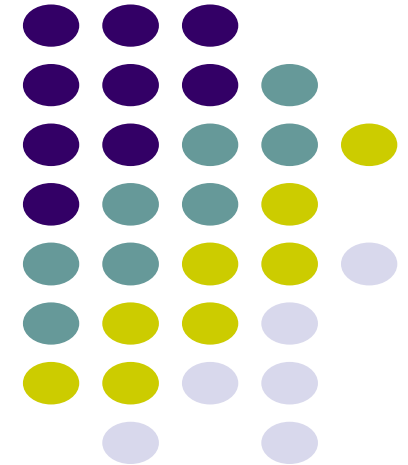
Patriot PS

Personal Server

How to configure as a Mail server



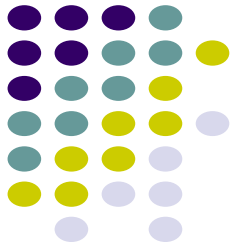
- Things needed for a Mail Server
- Configure as a Mail Server
- Access using mail client
- Access mail using web
- Create additional mail boxes



Your Server, Your Data, Your Terms !



*Pradeep Nambiar
Patriot PS Product Architect & Developer
Founder, Pexus LLC*



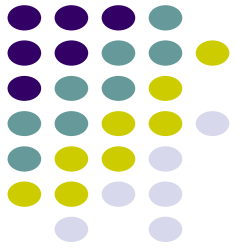
Why your own Personal Mail Server?

- ❖ Keep your e-mail private
 - ❖ Don't be bound terms of third party services
 - ❖ Avoid your mail being scanned, profiled and archived and used by third party
- ❖ Access using popular mail clients
- ❖ Create any number of mail boxes
- ❖ Create your own net identity – and not use so common @gmail.com, @yahoo.com, @live.com



Things you need to configure for a mail server

- Patriot PS – Personal Server System or Patriot PS – Personal Server distribution installed on your own hardware or as a Virtual Appliance
- A registered domain name
 - In this example we will use **iserv4.me** as the domain name
- A mail MX record
 - You can create an mail MX record at the service where you host your domain
 - Domain Name Service (DNS) from <http://dnsexit.com> offer this for free when registering domain with them
- Your ISP SMTP Server name and Port if you are using a dynamic IP
 - If you have a static IP from your ISP, then you can use your own Personal Server as SMTP Server
 - ISP connection with dynamic IP need to use ISP SMTP server to relay e-mail. Most mail servers do not accept mail from servers that use dynamic IP. But you can receive e-mail.



High Level Steps

- Do Initial Configuration of Patriot PS (<https://www.youtube.com/user/pexusllc>)
 - Quick Start Video : <https://youtu.be/Nz6AR4UcgKM>
 - Initial Configuration Video : <https://youtu.be/GZqC49ESBa8>
- Create an MX Record to point to a Host that points to your External IP Address of your ISP connection
 - This can be done for free at <http://dnsexit.com> if you host your domain with them. There are other services that you can use. More details at <http://www.pexus.com/patriotps>
- Start Mail Configuration from your ppsconfig application on your Patriot PS
- On successful configuration port forward additional ports as indicated in the configuration success page
- Update your Patriot PS – Profile with additional port forwarding information for your reference.
- Update your router to do additional port forwarding required for the mail server and for access by mail client
- Update your mail client application to retrieve mail from your newly configured mail server
- Test access mail using your favorite mail client
- Test access mail using web mail
- Create additional mail boxes for your domain on your mail server

Sample domain – iserv4.me – MX Record



DNS-EXIT
Internet Starts Here

[Pricing](#) | [Support](#) | [FAQ?](#) | [Sign Up](#) | [Logout](#)

Live Help
OFFLINE

[Home](#) | [Domains](#) | [DNS](#) | [E-mail](#) | [Web Site](#) | [Help](#) | [My Account](#)

 My Cart is empty | [All Services >>](#)

»» **DNS Panel - ISERV4.ME**

Domain: ISERV4.ME

Free DNS
[Query Stats](#) | [Check Syntax](#) | [Verify DNS](#) | [Delete DNS](#)

DNS Created : [REDACTED] Dynamic DNS is: **ON** → [Turn OFF](#)

Last modified : [REDACTED] Status: Active

MX Records (MX) [? help](#)

Mail Zone: ISERV4.ME [Add MX](#)

| Mail Server | Priority # | TTL (hr : min) | Action |
|--------------|------------|------------------|---|
| mx.iserv4.me | 0 | 08:00 | Edit Delete |

Host Records (A & AAAA) [Add Host](#) [? help](#)

| Host | IP Address (IPv4 / IPv6) | FO | TTL (hr : min) | Action |
|---------------|--------------------------|-----|------------------|---|
| iserv4.me | [REDACTED] | off | 00:02 | Edit Delete |
| pps.iserv4.me | [REDACTED] | off | 00:20 | Edit Delete |

Alias Records (CNAME) [Add Alias](#) [? help](#)

| Alias | Points to Host | TTL (hr : min) | Action |
|--------------|----------------|------------------|---|
| mx.iserv4.me | iserv4.me | 00:02 | Edit Delete |
| [REDACTED] | [REDACTED] | 00:02 | Edit Delete |

TXT Records (TXT) [Add TXT](#) [? help](#)

| Host | Text Description | TTL (hr : min) | Action |
|------|------------------|------------------|--------|
|------|------------------|------------------|--------|

SRV Records (SRV) [Add SRV](#) [? help](#)

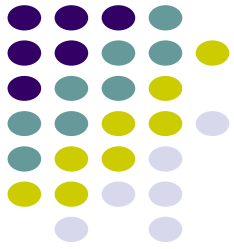
| Target | Service&Protocol | Priority | Weight | Port | TTL (hr : min) | Action |
|--------|------------------|----------|--------|------|------------------|--------|
|--------|------------------|----------|--------|------|------------------|--------|

Note: To make the above DNS effective for your domain, you must have domain name servers (DNS) point to our DNS servers:

Services: iserv4.me

- [Web Hosting](#)
- [Mail Hosting](#)
- [Mail](#)
- [Forwarding](#)
- [Mail Relay](#)
- [Mail](#)
- [Redirection](#)
- [Mail Backup](#)
- [URL](#)
- [Forwarding](#)
- [DNS Failover & Monitoring](#)

Login to ppsconfig application



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Patriot Personal Server Configuration

Welcome Pradeep Nambiar!

External IP Address & Port: [68.203.15.56:10443]

External Hostname & Port: [iserv4.me:10443]

Patriot PS IP Address(es): [10.77.14.245]

Patriot PS Hostname: [iserv4me, iserv4me.local]

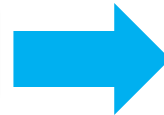


Thank you for using the Patriot Personal Server. You are on your way to managing your server and your data on your terms!!

For more information on additional personal server applications visit the [Patriot Personal Server](#) page.

Current Configuration Status

| Configuration Item | Status | Action |
|--|--------|-----------------------------|
| PPS Administrator Profile | ✓ | Modify |
| MySQL Database root password <small>MySQL Database may be used by a number of applications on your Personal Server. You may be required to input this password in future configuration and setup.</small> | ✓ | Reset |
| Network Configuration | ✓ | Modify |
| Current Time Zone: America/Chicago | ✓ | Modify |
| Configure Mail | ✓ | Configure |
| Re-generate Self Signed HTTP SSL Key and Certificate | ✓ | Re-generate |
| Personal Server Profile | ✓ | Modify |
| Schedule additional tasks or manage scheduled task on your | ✓ | Schedule |



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Mail Configuration

Your Personal Server keeps in touch with you via e-mail to the e-mail address you specified in your PPS Administrator profile. It is important to configure your Personal Server at least to just send e-mail.

For complete control of your e-mail you can configure your Personal Server as an e-mail server that can send and receive e-mail. Configuring your Personal Server as an e-mail server will require you to own a personal domain name and an MX (Mail Exchange) record created for your domain name. For more information on how to get a domain name [click here](#).

To configure your Personal Server to just send e-mails, you will require a relaying SMTP Server name. This could be your ISP's SMTP Server name or a third party SMTP server such as Google or Yahoo SMTP server that you may be currently using to send your e-mail. Using your ISP's SMTP server name usually doesn't require a user id and password. When using third party SMTP server you will require a user id and password for authentication.

You can switch to either type of configuration at any time.

Note: Your third party SMTP server may be storing all e-mail that is relayed through it. For complete privacy you should configure your Personal Server as an E-mail server so that it can send and receive e-mails directly.

Currently configured as an: E-Mail Server

Personal Server Mail Configuration

Configure Personal Server to Just Send E-mails

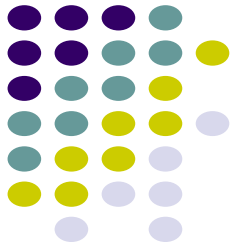
Configure Personal Server as an E-Mail Server

[Next](#)

[Cancel](#)

Select this option to configure for Mail Server and click Next

Specify the domain name for your mail server to query the MX Record for the domain



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Enter Domain Name for your Mail Server

For setting up your mail server you will require a domain name e.g. mydomain.com or mydomain.net. After you register your domain name you will also need a domain name service that will provide a mapping of your domain name to your External IP address of your Internet connection. You must create an MX (Mail Exchange) record for your domain name to point to your domain name. MX record is used to route all e-mail from the Internet addressed to your domain name.

Enter your domain name and we will check if your MX record is already available on the Internet. If you don't have an MX Record setup, contact your DNS Service provider to set up one for you or you can set one up if the DNS Service provider provides a self service portal to create one. We will proceed to the next step only if an MX record is available. *Note: it may take one to two days for your DNS Service provider to get this record created and published.*

[Click here to get more information on getting yourself a domain name and DNS Service](#)

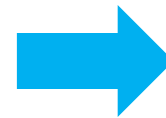
Enter Domain Name *

iserv4.me

Back

Next

Cancel



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40%

Select Mail Exchange Server (MX Record) To Configure

Found MX Record (s) for your domain!

Confirm the Mail Exchange Server (MX Record) shown belongs to your domain. The selected MX Record should point to your domain name or an alias that resolves to your External IP address provided by your ISP. For most home Internet Connections the ISP IP address is a dynamic IP. If your ISP IP Address is dynamic you will need a Dynamic DNS Service that be can set up to update your domain name and your MX record IP address automatically using your router or using a dynamic IP update client included with your Personal Server. For a list of Dynamic DNS Service and Domain Name Service [click here](#).

Select Mail Exchange (MX) Server Record:

mx.iserv4.me

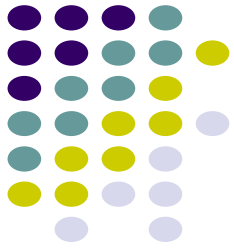
Back

Next

Cancel

If MX record is not found create an MX record with the domain hosting provider and re-try the configuration

Select option 1 for Dynamic ISP IP address or Option 2 if you have a static IP address from your ISP



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PERSONAL CLOUD & AUTOMATION SERVER

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Options for Sending Outgoing E-mail

Select one of the following two options to configure sending outgoing e-mail

Option 1: Internet Connection with Dynamic IP Address

If your ISP (Internet Service Provider) provides you a dynamic IP address for your Internet connection, you need to use an SMTP Server to relay outgoing mail. This could be your ISP's SMTP server or a third party SMTP Server you currently use to send e-mail. This is required as most mail servers do not accept mails from dynamic IP addresses. Use the form below to specify an SMTP Server name. *This is the most common option for home Internet service connections. A relaying SMTP server may store e-mails when relaying. For complete privacy use Option 2 below.*

Enter SMTP Server Name *

Enter SMTP Port *

SMTP Server Authentication

Optional. Most ISP's don't need this, but you may want to check with your ISP

Option 2: Internet Connection with Static IP Address

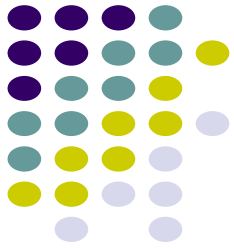
If you use a static IP address for your Internet connection then you can use your mail server directly to send e-mails. In this case, check the check box to indicate you want to use your mail server directly. If you are not sure of this contact your ISP to verify. *This is a common option for business Internet service connections.*

Send mail directly from Personal Server

You will use your mail server to receive and store all mails in both the cases.

Back Next Cancel

Enter MySQL root password, specify password for Mail database and postfix admin tool password



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Mail Server Configuration - Passwords

There are a number of components to set up for your personal mail server. You will need your MySQL database root password that you have configured earlier.

Use this form to set passwords for your mail database and Postfix Admin application administrator.

mail database is used to store information about your mail boxes and users you want to host on your mail server. Postfix Admin application is web application to manage mail boxes and users for your mail server.

Enter MySQL Database Root Password *

Set Mail Database User Password *

Confirm Mail Database User Password *

Drop Mail database if exists. You will loose all current configurations if any.

Postfix Admin User Id

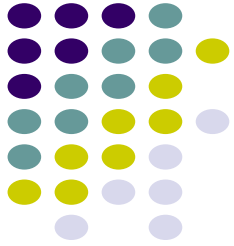
Set Postfix Admin Password *

Confirm Postfix Admin Password *

NOTE: A default mailbox - ppsadmin@iserv4.me is also created as part of this configuration. This uses the same password provided for Postfix Admin user id. You can create additional mail box using Postfix Admin. All system e-mails are also forwarded to the default mail box.

Back Next Cancel

Specify Mail SSL Certificate Variables



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100%

Mail Server Configuration - Self Signed SSL Certificate Variables

Self Signed SSL Certificates will be created for accessing your mail server. This will ensure transport level security when sending and downloading your e-mail from your mail client. Note you will have to accept the certificate into your mail client program manually as your mail client may not recognize the certificate because it is not signed by well known signer known to your mail client. However it still uses the same encryption standards and your communication between mail client and the mail server is protected.

On successful configuration, the finger print for certificates will be shown. Make a note of the finger print values to confirm when accepting the certificate in your mail client. It is recommended you connect to your mail server from your mail client using your home network first to accept the certificate to prevent a third party server from spoofing your certificate.

Name Identifier *

Pradeep-Nambiar

Country *

US

State *

TX

City *

Austin

Location or Organization Identifier

iserv4me

Certificate Validity in Days
(should be less than 2916143)

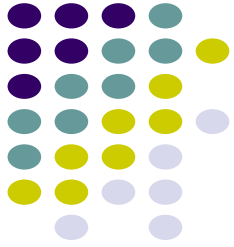
3650

Back

Next

Cancel

Confirm Mail Server Configuration Input



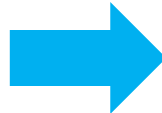
Mail Server Configuration - Submit

Submit Mail Server Configuration for domain Name: **iserv4.me** with the following configuration values.

| |
|---|
| Mail Server MX Record: mx.iserv4.me. |
| SMTP Server Name: mail.twc.com |
| SMTP Port: 25 |
| Send Mail Send Mail Directly from Mail Server: No |
| Drop mail database if exists: No |
| Postfix Admin User Id: ppsadmin@iserv4.me |
| Default mail box: ppsadmin@iserv4.me |
| Default mail box Password: Same as Postfix Admin User Id's password |
| SSL Certificate Name Identifier: Pradeep-Nambiar |
| SSL Certificate Country Code: US |
| SSL Certificate State: TX |
| SSL Certificate City: Austin |
| SSL Certificate Location o Organization Name: iserv4me |
| SSL Certificate Validity in Days: 3650 |

Configuration may take some time, please wait for the configuration status after selecting Submit button.

[Back](#) [Submit](#) [Cancel](#)



Mail Server Configuration Status

Configuration may take a few minutes..

Configuring Mail Server, please Wait....

[Back](#)

[Confirm](#)

Mail Server Configuration Information



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PERSONAL CLOUD & AUTOMATION SERVER

Mail Server Configuration Status

Configuration may take a few minutes..

Your mail server has been configured successfully. Note the mail server configuration for your reference.
A default mailbox - `ppsadmin@iserv4.me` has been created. You can create additional mailboxes using Postfix Admin application.
Click Confirm to register your mail server as configured.

Port Forwarding

You will have to port forward the following ports to your Personal Server's Internal LAN IP Address from your router or fire wall to enable mail client and your server to receive and send mails.

Ports: HTTPS (443), SMTP (25), SMTPS (465), SMTP Submission (587), POP3S (995), IMAPS (993)
Your Personal Server IP Address: 10.77.14.245

Postfix Admin

Use Postfix Admin application to create mailboxes on your mail server.

URL: <https://10.77.14.245/postfixadmin>
Login Id: `ppsadmin@iserv4.me`

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PERSONAL CLOUD & AUTOMATION SERVER
Login Id: `ppsadmin@iserv4.me`

Webmail

You can access your mail over the web using the following URL.

URL: <https://10.77.14.245/webmail>
Login Id for default mail box: `ppsadmin@iserv4.me`

Mail Client Settings

You can also use any mail client such as [Mozilla Thunderbird](#), iOS Mail, Android Mail, Microsoft Outlook etc. to retrieve and send mail. When configuring your mail client use the following settings. You can create additional mail boxes on the mail server using Postfix Admin. The following settings are for the default mail box: `ppsadmin@iserv4.me`.
For retrieving your e-mail using your mail client you have a choice of using either POP3S or IMAPS.

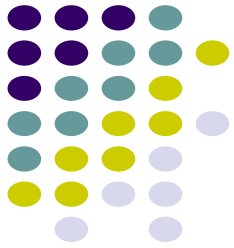
POP3S Settings

POP3S Server Name: `mx.iserv4.me`.
POP3S Port: 995
Authentication Method: Normal Password
Connection Security: SSL/TLS
POP3S Login Id for default mail box: `ppsadmin@iserv4.me`

IMAPS Settings

IMAPS Server Name: `mx.iserv4.me`.
IMAPS Port: 993
Authentication Method: Normal Password
Connection Security: SSL/TLS
IMAPS Login Id for default mail box : `ppsadmin@iserv4.me`

Outgoing mail server settings (SMTP)



Mail Server Configuration Information (contd.)

Outgoing mail server settings (SMTP)

Outgoing Server (SMTP): mx.iserv4.me.
SMTPS Port: 465
Authentication Method: Normal Password
Connection Security: SSL/TLS
User Name: ppsadmin@iserv4.me

SSL Certificate Finger Print

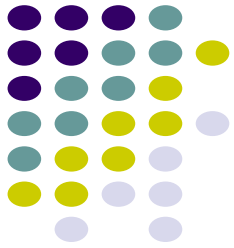
When your mail client connects to your personal server, you will be warned about self signed certificate. To ensure you are connecting to your server, you can verify the certificate contains the following finger print. Once verified you can accept the certificate permanently in your mail client.

POP3S / IMAPS : SHA1 Finger Print = 0F:FA:09:CC:24:84:09:12:A6:82:E0:E4:F0:AE:E9:38:50:2F:27:A3
SMTPS: SHA1 Finger Print = A5:42:4E:9D:94:0B:E1:A7:99:33:93:FF:EE:80:9D:57:BE:BD:A1:B3

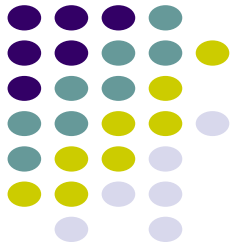
Print and save this page for future reference and use it for port forwarding and reference for ports when configuring your mail clients such as MS Outlook, Thunderbird, iOS or Android etc.

Back

Confirm



Refer Mail Server Configuration Video from this link:
<https://youtu.be/sPcm-VUAKPE>



Thank You

Refer to *Post Mail Server Configuration Video* to configure your mail clients, access mail using Web and creating additional mail boxes using Postfix Admin

<http://www.pexus.com/patriotps/media>