ansible-tine

out of the box mailserver, crm, cms solution

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https://www.entroserv.de/de/offene-software/ansible-tine

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Content

Motivation

We need

Components

Getting started

Domain

Server

Deploy

Setup

Discussion

Motivation

→ **let's run a startup company** ←

We need:

- Webpage (CMS)
- E-Mail (Mailserver, Spamfilter)
- Mailinglist
- Groupware, CRM
- **and the s for security**

DeMotivation

→ **let's run a startup company** ←

IT-Infrastructure:

- Cloud Solution
  - DSGVO?
  - Lock-In?
  - Security?
  - price?
- Self-Hosted
  - Installation?
  - Configuration?
  - Updates?
  - Backups?
  - Documentation?
  - Will it work?
- Self-Hosted using integrated solution
  - everything fully supported?
  - price?
- Dedicated-Hosting by IT-Service
  - price?

We need

. . . to get ready **NOW**

- **self-hosted** but:
- easy to install
- easy to configure
- easy to integrate
- useful defaults

→ Fill out form and click **START**

We need

. . . useful **TOOLS** and **FEATURES**

- E-Mail (Webmail, SMTP, IMAP, Exchange)
- Default signature
- Multiuser + Frontend for administration
- Mail-Alias
- Quota
- Sieve integration
- Spamfilter with Learning (integrated in Mailclient)
- Autoconfig (Thunderbird), Autodiscovery (ActiveSync)
- Calendar (Web, Caldav and ActiveSync)
- Addressbook (synced)
- Mailinglist
- TLS, TLSA, DKIM, DMARC, SPF, ADSP, ARC
- Filestorage
- Backup
- Flatfile CMS

We need

. . . some nice to have tools

- Human Resource Management
- CRM
- Timekeeping
- Base data
- Sales
- Task Planning
- Inventory management

Components

- Tine 2.0
- Apache2
- Postfix
- Dovecot
- Sieve
- MySQL/Mariadb
- Rspamd
- Mailman
- Cryptdomainmgr (+ dehydrated)
- Cron
- Ansible
- inwx.de
- Letsencrypt
- Grav

Components

- Tine 2.0
  - Accountmanagement, Administration
  - ActiveSync, Exchange
  - Caldav
  - Carddav
  - Groupware, CRM and additional tools
  - Webmail
  - Filestorage
- Apache2
  - Web-UIs
  - Webpage
  - PHP
  - TLS
- Postfix
  - SMTP
- Dovecot
  - IMAP
- Sieve
  - Filtering
  - Control remote spam/ham learning
- MySQL /Mariadb

Getting started

Domain

Currently only Internetworx (`inwx.de`) supported;
No reseller support yet

- create account
  - username and password for automatic update needed
  - individual account for client required
- register domain

Getting started

Server

Smallest V-Server (1 GB RAM, 50 GB SSD)

- install full Server Ubuntu 18.04 or Debian 9
- enable SSH root access

Config – CRM, email

vars/common.yml

```
1  hostname: "pserver"
2  tld: "entroserv.de"
3  subdomain: "{{ tld }}"
4  servername: "pserver"
5  domain: "{{ servername }}.{{ subdomain }}"
6  tinedomains:
7    - "tine20.{{ subdomain }}"
8  rspamddomains:
9    - "rspamd.{{ subdomain }}"
10 emaildomain: "{{ subdomain }}"
11 imapuserdomain: "entro"
12 tlsa: 'auto:3:1:1,auto:2:0:1'
```

Config – Mailinglist

vars/common.yml

```
defaultlistmap:
          { emaildomain: "lists.{{ subdomain }}",
              webdomain: "www.lists.{{ subdomain }}",
                     mx: '{{ subdomain }}' }
```

Config – CMS, web

vars/common.yml

```
1  webdomains:
2    - "www.{{ subdomain }}"
3    - "{{ subdomain }}"
4  grav_admin_user: "admin"
5  grav_admin_email:
6          "{{ tine20_admin_name }}@{{ emaildomain }}"
```

Config – multidomain

vars/common.yml

```
emailmaps:
  - { emaildomain: "entroserv.net",
                mx: "{{ domain }}" }
  - { emaildomain: "entroserv.com",
                mx: "{{ domain }}" }
listmaps:
  - { emaildomain: "lists.entroserv.net",
          webdomain: "www.lists.entroserv.net",
                mx: '{{ domain }}' }
  - { emaildomain: "lists.entroserv.com",
          webdomain: "www.lists.entroserv.com",
                mx: '{{ domain }}' }
```

Config – TLS certificate

vars/cert.yml

```
1  certemail: "stefan.helmert@t-online.de"
2  certextra: []
3  certocsp:
4    - "--ocsp"
5  certbaselocation: "/etc/ssl"
```

Config – internetworx login

vars/inwx.yml

```
1 inwxlogin: "entroserv"
```

Config – internetworx password

vars/inwx.yml

```
1 inwxpasswd: "**********"
```

Config – all passwords

vars/passwords.yml

```
1  rspamd_pw: "{{  lookup('password', 'credentials/'
2                + inventory_hostname
3                + '/rspamd_pw.txt chars=ascii_letters,
4                                    digits') }}"
5  [...]
```

Start Ansible-Playbook

```
1 ansible-playbook deploy_playbook.yml -i hosts
```

```
PLAY [crm-server] ********************************

TASK [up : Debug host] ***************************
ok: [92.60.36.246 -> localhost] => {
    "msg": "92.60.36.246"
}

TASK [up : Waiting for startup] ******************
ok: [92.60.36.246 -> localhost]
```

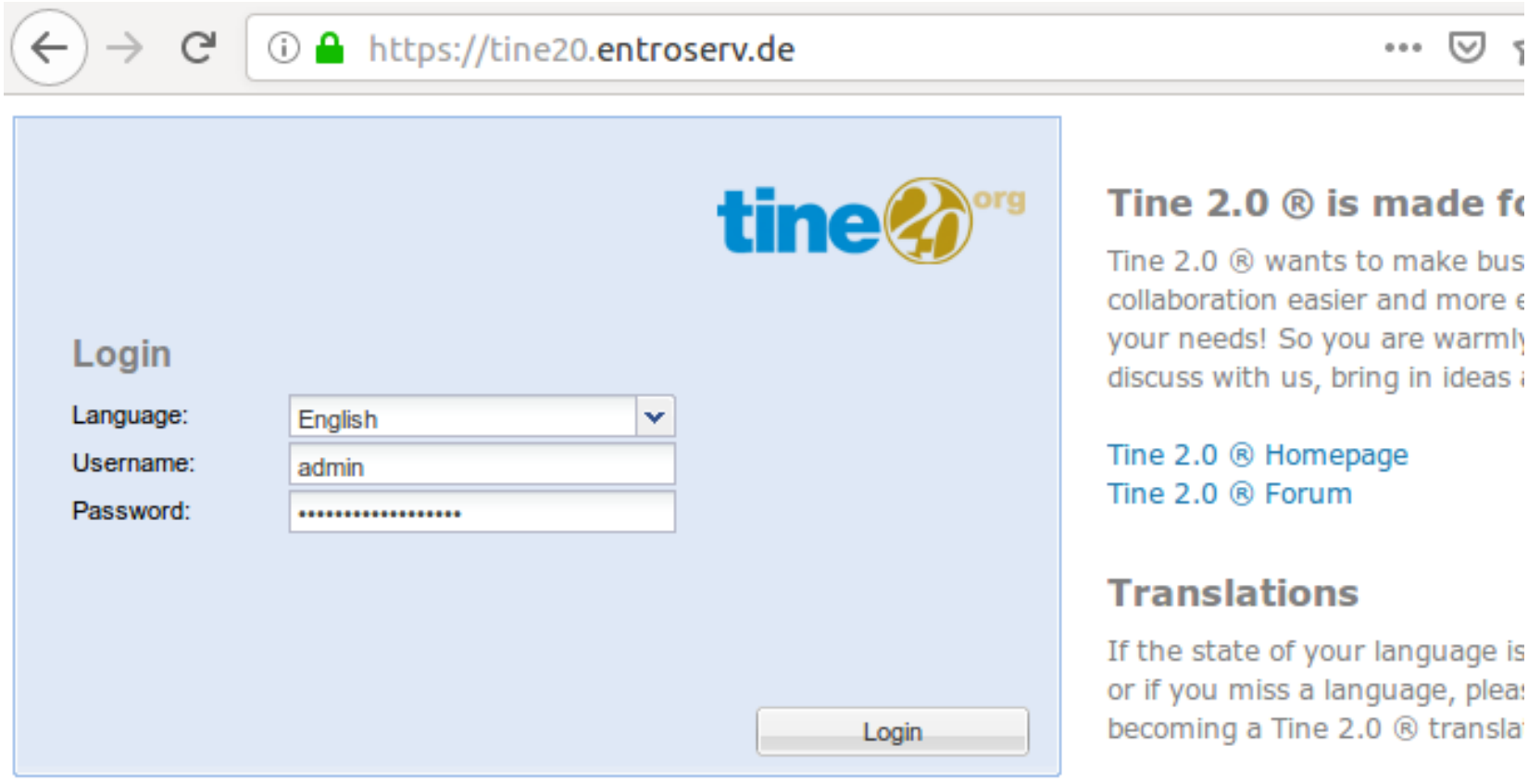
Getting started

Setup

Get tine20 admin password

```
1 cat credentials/92.60.36.246/tine20_admin_passwd.txt
```

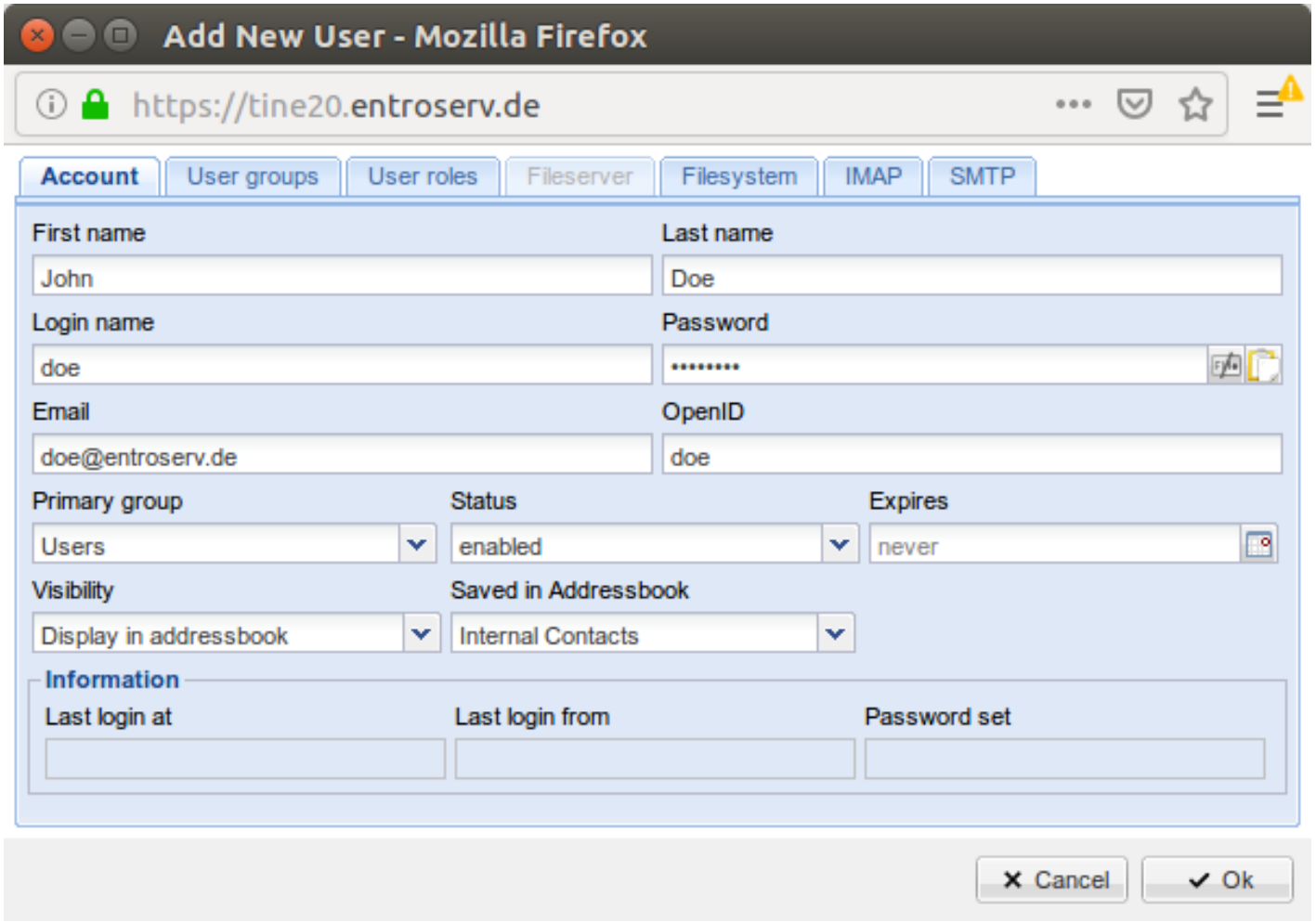
Login



Getting started

Setup

Add user

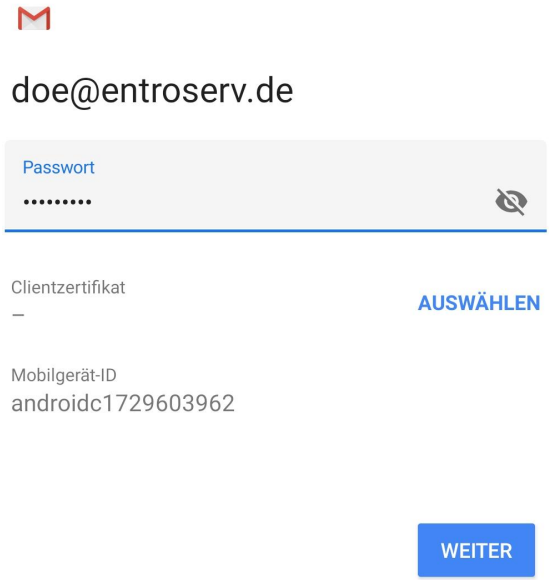


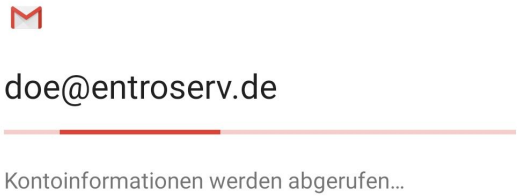
Important: User must login and relogin to use email.

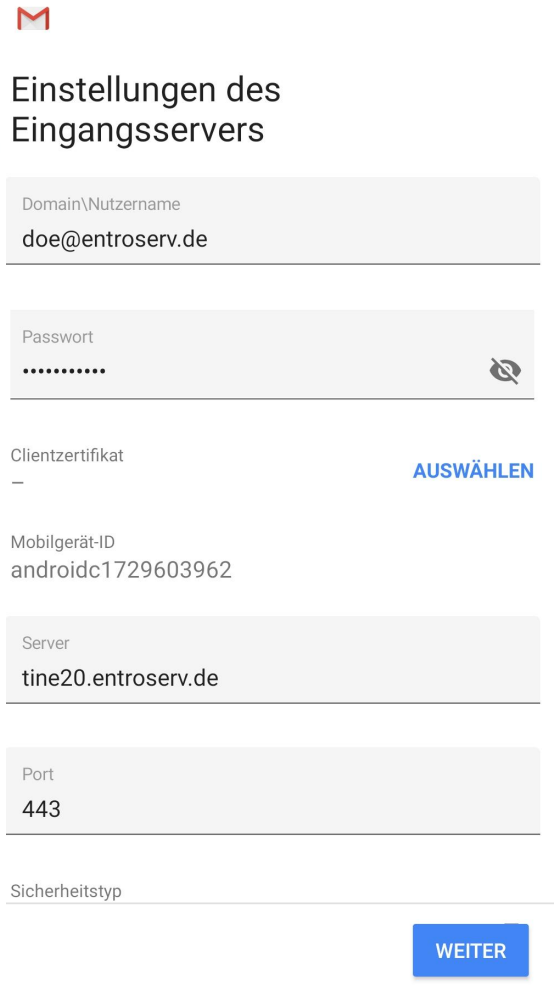
Getting started

Setup

ActiveSync autodiscovery on Android





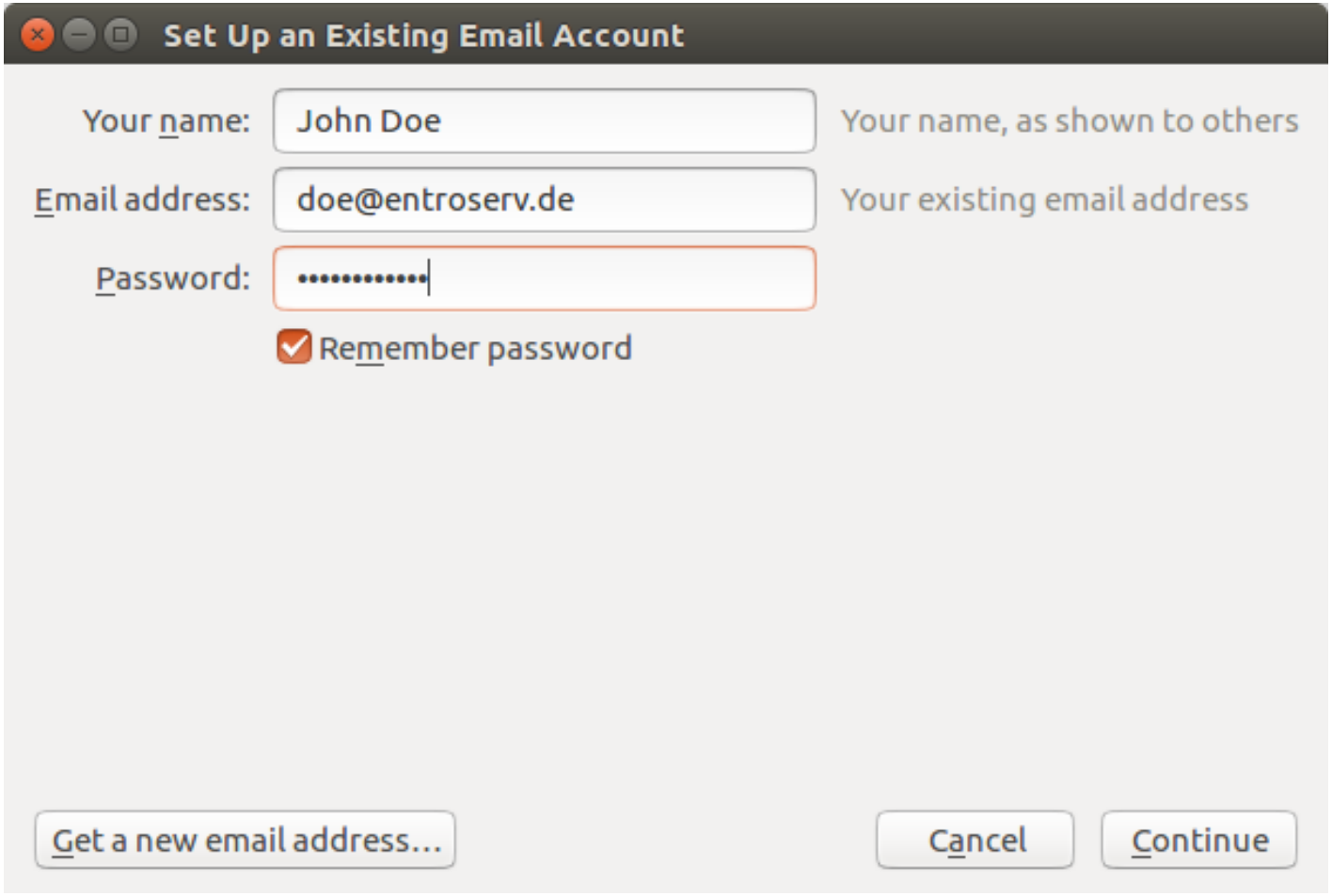


Because: `https://autodiscover.entroserv.de/autodiscover/autodiscover.php`

Getting started

Setup

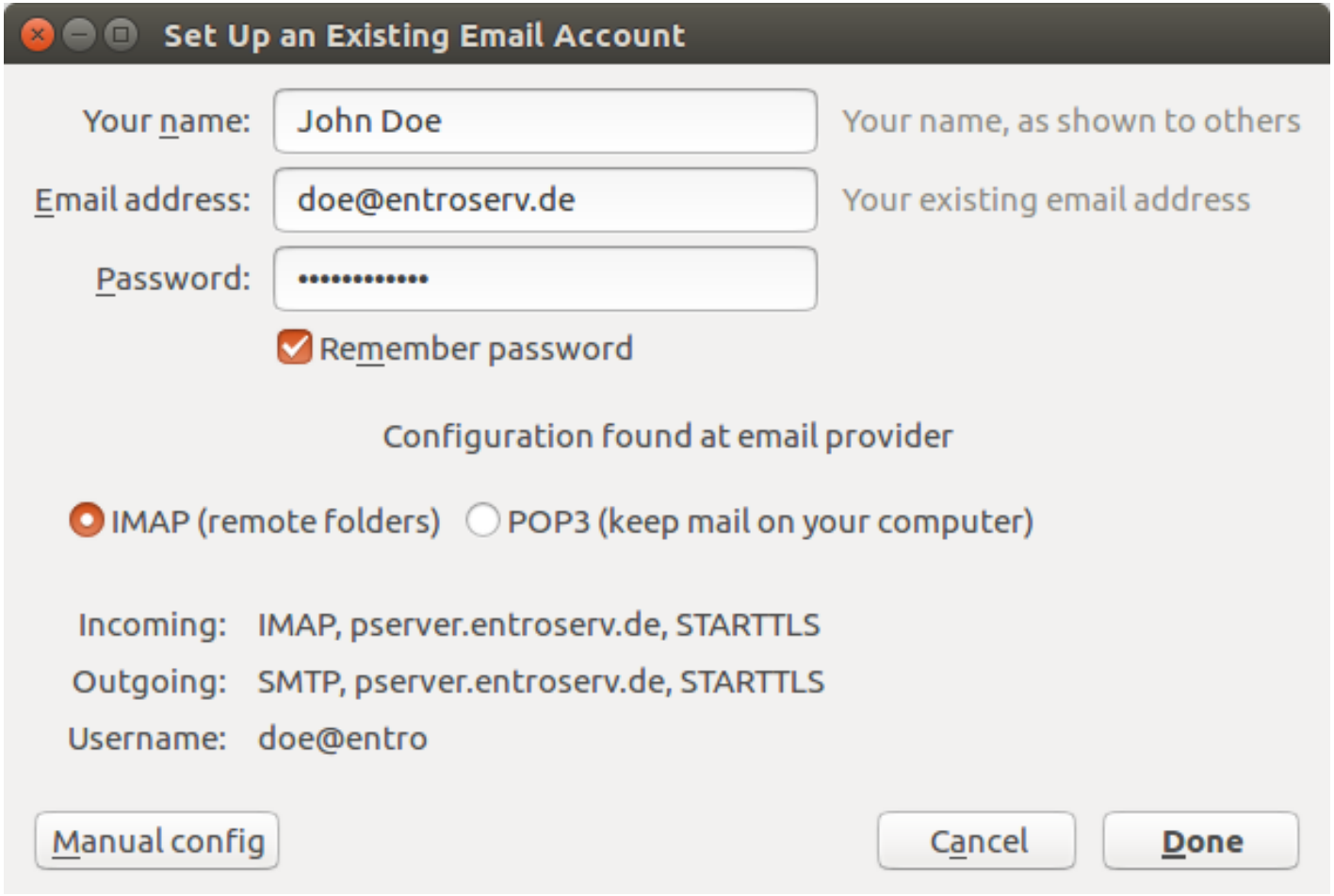
IMAP/SMTP autoconfig for Thunderbird



Getting started

Setup

After < 1 s



Because:

`https://autoconfig.entroserv.de/mail/config-v1.1.xml`

Discussion

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