

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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We need

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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 (syncned)
- ▶ 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

Getting started

Deploy

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 rspamdomains:
9     - "rspamd.{{ subdomain }}"
10 emaildomain: "{{ subdomain }}"
11 imapuserdomain: "entro"
12 tlsa: 'auto:3:1:1:auto:2:0:1'
```

Getting started

Deploy

Config – Mailinglist

vars/common.yml

```
1 defaultlistmap:
2     { emaildomain: "lists.{{ subdomain }}",
3       webdomain: "www.lists.{{ subdomain }}",
4       mx: '{{ subdomain }}' }
```

Getting started

Deploy

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 }}"
```

Getting started

Deploy

Config – multidomain

vars/common.yml

```
1 emailmaps:
2   - { emaildomain: "entroserv.net",
3       mx: "{{ domain }}" }
4   - { emaildomain: "entroserv.com",
5       mx: "{{ domain }}" }
6 listmaps:
7   - { emaildomain: "lists.entroserv.net",
8       webdomain: "www.lists.entroserv.net",
9       mx: '{{ domain }}' }
10  - { emaildomain: "lists.entroserv.com",
11      webdomain: "www.lists.entroserv.com",
12      mx: '{{ domain }}' }
```

Getting started

Deploy

Config – TLS certificate

vars/cert.yml

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


Getting started

Deploy

Config – internetworx login

vars/inwx.yml

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

Config – internetworx password

vars/inwx.yml

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

Getting started

Deploy

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  [...]
```

Getting started

Deploy

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



The screenshot shows a web browser window with the address bar displaying `https://tine20.entroserv.de`. The page content includes the Tine 2.0 logo, a login form, and promotional text. The login form has fields for Language (set to English), Username (set to admin), and Password (masked with dots). A 'Login' button is at the bottom right of the form. To the right of the form, there is text about Tine 2.0's purpose and links to the homepage and forum. Below that is a 'Translations' section with a paragraph about language support.

← → ↺ ⓘ 🔒 `https://tine20.entroserv.de` ...



Login

Language: ▼

Username:

Password:

Login

Tine 2.0 ® is made for

Tine 2.0 ® wants to make bus collaboration easier and more € your needs! So you are warmly discuss with us, bring in ideas i

[Tine 2.0 ® Homepage](#)
[Tine 2.0 ® Forum](#)

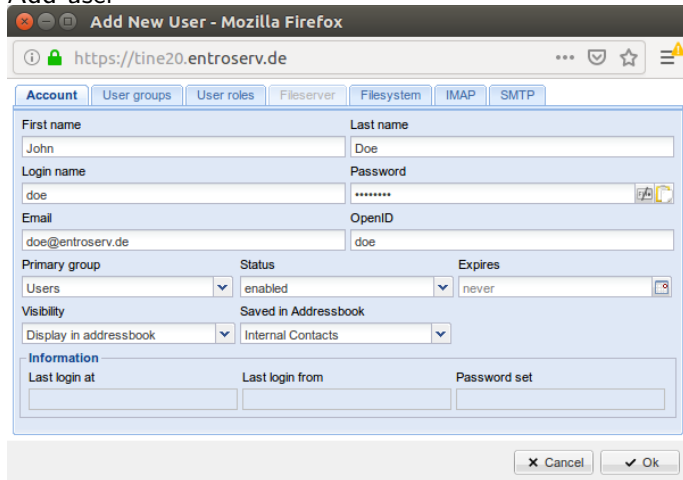
Translations

If the state of your language is or if you miss a language, plea becoming a Tine 2.0 ® transla

Getting started

Setup

Add user



The screenshot shows a Mozilla Firefox browser window titled "Add New User - Mozilla Firefox". The address bar displays "https://tine20.entroserv.de". The page content is a form titled "Add New User" with several tabs: "Account", "User groups", "User roles", "Fileserver", "Filesystem", "IMAP", and "SMTP". The "Account" tab is selected and contains the following fields:

- First name:** John
- Last name:** Doe
- Login name:** doe
- Password:** (masked with dots)
- Email:** doe@entroserv.de
- OpenID:** doe
- Primary group:** Users (dropdown)
- Status:** enabled (dropdown)
- Expires:** never (dropdown)
- Visibility:** Display in addressbook (dropdown)
- Saved in Addressbook:** Internal Contacts (dropdown)
- Information section:**
 - Last login at:** (empty text box)
 - Last login from:** (empty text box)
 - Password set:** (empty text box)

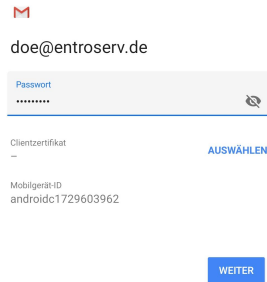
At the bottom of the form are two buttons: "Cancel" and "Ok".

Important: User must login and relogin to use email.

Getting started

Setup

ActiveSync autodiscovery on Android



doe@entroserv.de

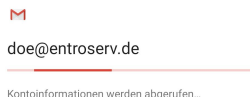
Passwort

Clientzertifikat
—

Mobilgerät-ID
androidc1729603962

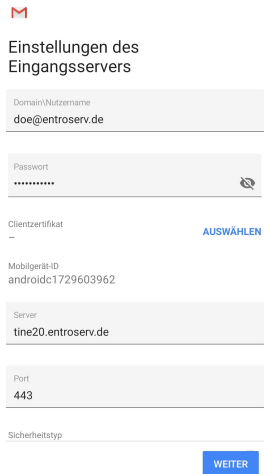
AUSWÄHLEN

WEITER



doe@entroserv.de

Kontoinformationen werden abgerufen...



Einstellungen des Eingangsservers

Domain\Nutzername
doe@entroserv.de

Passwort

Clientzertifikat
—

Mobilgerät-ID
androidc1729603962

Server
tine20.entroserv.de

Port
443

Sicherheitstyp

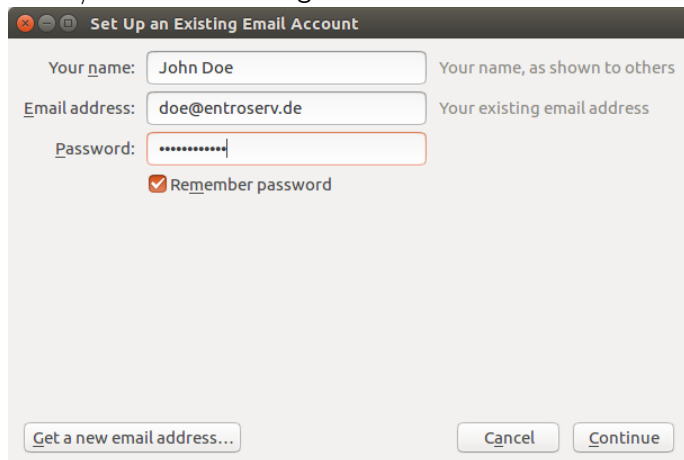
WEITER

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

Getting started

Setup

IMAP/SMTP autoconfig for Thunderbird



The screenshot shows a window titled "Set Up an Existing Email Account" with a dark header bar. Inside the window, there are three text input fields and a checkbox. The first field is labeled "Your name:" and contains the text "John Doe". The second field is labeled "Email address:" and contains the text "doe@entroserv.de". The third field is labeled "Password:" and contains a series of dots. To the right of each field is a descriptive label: "Your name, as shown to others", "Your existing email address", and "Your password" (partially obscured). Below the password field is a checkbox labeled "Remember password" which is checked. At the bottom of the window, there are three buttons: "Get a new email address...", "Cancel", and "Continue".

Set Up an Existing Email Account

Your name: John Doe Your name, as shown to others

Email address: doe@entroserv.de Your existing email address

Password: Your password

☒ Remember password

Get a new email address... Cancel Continue

Getting started

Setup

After < 1 s

Set Up an Existing Email Account

Your name: Your name, as shown to others

Email address: Your existing email address

Password:

☒ Remember password

Configuration found at email provider

☒ IMAP (remote folders) ☐ POP3 (keep mail on your computer)

Incoming: IMAP, pserver.entroserv.de, STARTTLS

Outgoing: SMTP, pserver.entroserv.de, STARTTLS

Username: doe@entro

Because:

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

Discussion

???