

Technical Assessment - Rocket.Chat Enterprise Solutions Team - Technical Support Analyst Position

Done by: Enrique A. Legarse

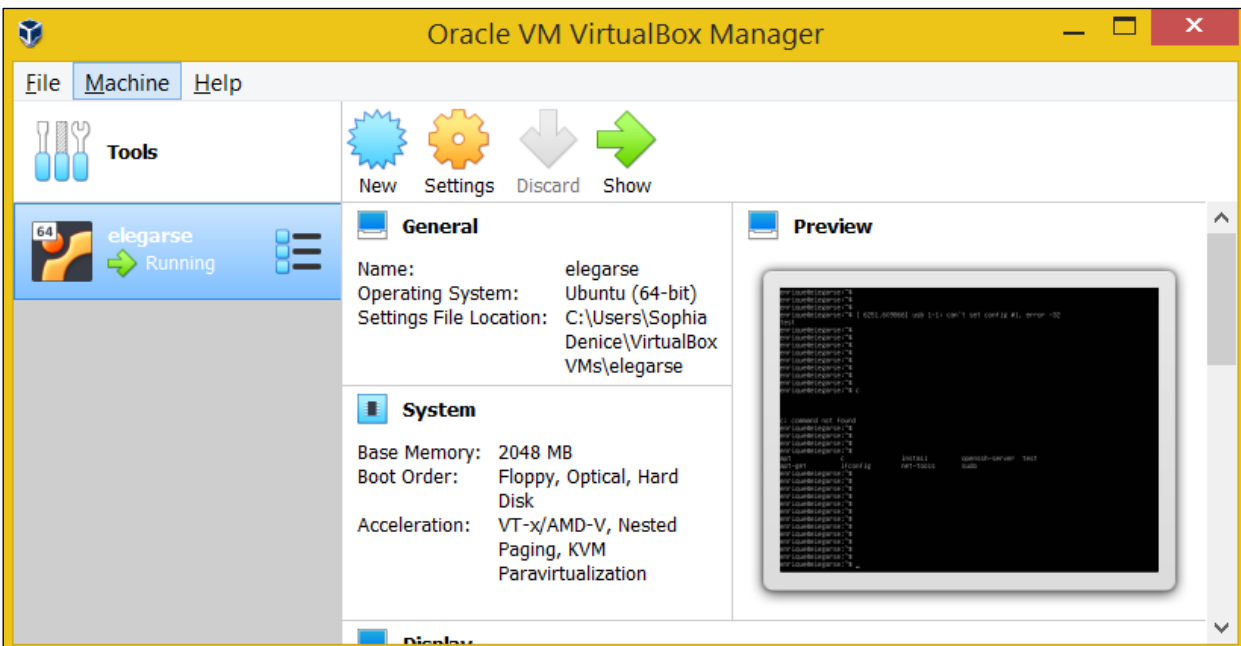
1. Deploy your own Rocket.Chat server instance

- a. Mandatory: Install and set up your Rocket.Chat environment and provide us the URL and a user/password so we can access it. You can use any of the supported installation methods we have (further info on <https://docs.rocket.chat/> and <https://github.com/RocketChat/Rocket.Chat>), there is no restriction at all, it can be hosted anywhere. Please also don't forget to document the steps you did, explaining the installation process. This summary must also be shared with us. *Hint: there are tools that expose your localhost through a secure connection.*

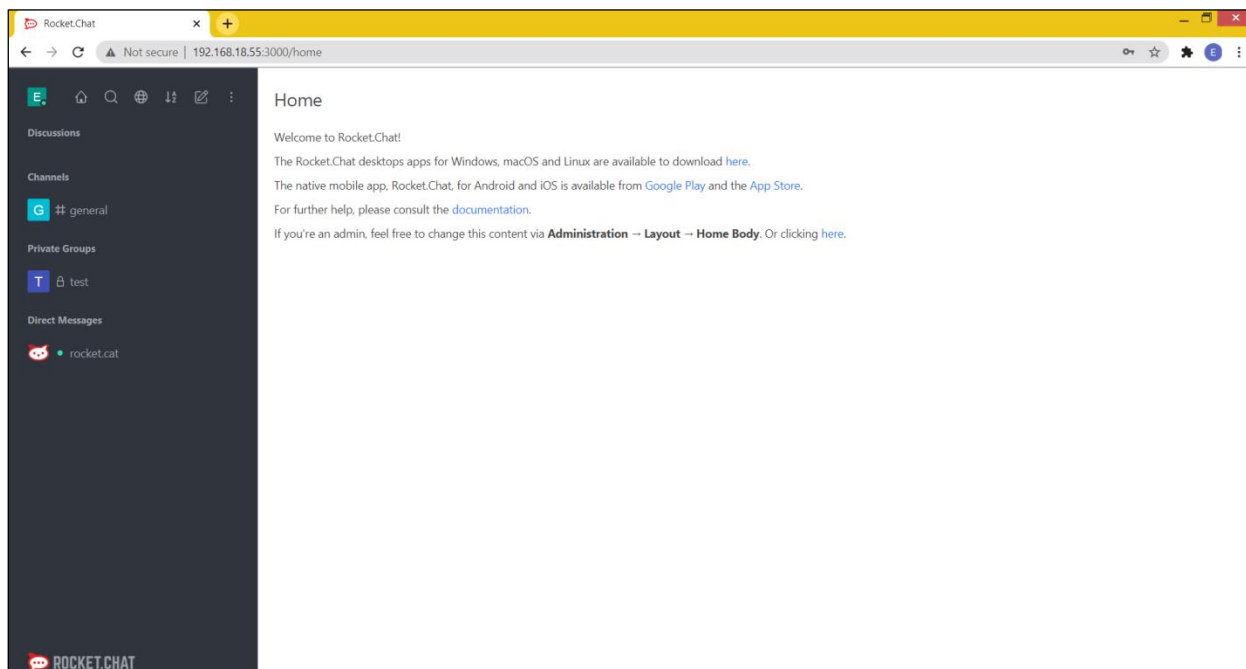
Answers:

- > Download VM VirtualBox Manager and Ubuntu Server 20.04.
- > Install Ubuntu Server inside VM.
- > Also install Putty to access the server outside of VM.
- > Install rocket.chat server using Snap: **sudo snap install rocketchat-server.**
- > Run ifconfig to retrieve the server's IP address.
- > Access the rocket.chat website through this address: <http://192.168.18.55:3000/>
- > To log-in with admin access, please use the following credentials.
 - > Username: elegarse
 - > Password: chuchay

Screenshots:



```
enrique@elegarse: ~  
login as: enrique  
enrique@192.168.18.55's password:  
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-52-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Thu 22 Oct 2020 07:37:40 PM UTC  
  
System load:  0.0           Processes:            119  
Usage of /:   74.9% of 8.79GB Users logged in:        1  
Memory usage: 38%          IPv4 address for docker0: 172.17.0.1  
Swap usage:   11%          IPv4 address for enp0s3:  192.168.18.55  
  
* Introducing autonomous high availability clustering for MicroK8s  
production environments! Super simple clustering, hardened Kubernetes,  
with automatic data store operations. A zero-ops HA K8s for anywhere.  
  
https://microk8s.io/high-availability  
  
55 updates can be installed immediately.  
0 of these updates are security updates.  
To see these additional updates run: apt list --upgradable  
  
Last login: Thu Oct 22 18:40:19 2020 from 192.168.18.53  
enrique@elegarse:~$
```



- b. Optional: Set a reverse proxy, a domain, and an SSL certificate so your server can use HTTPS protocol. **Important: There is no need to buy a domain for this, as this is optional. If you have a domain to spare, feel free to use it, but we don't want you to spend money on this test ;)** – I can't find any domain name for free so I wasn't able to perform this task.

2. Rocket.Chat APIs test (all steps are mandatory)

After creating your Rocket.Chat server, run the following API queries/updates, and provide us the results. We need only the request/responses for each operation (you can share with us screenshots or the actual files/collections). Note that the API calls should be done to your server.

The documentation is available at <https://docs.rocket.chat/>.

a. Create a new user via an API endpoint

API Query:

```
enrique@elegarse:~$ curl -H "X-Auth-Token: bqY4Dfu7Tdr-uA-G0gxJpItKjTB0_v3Met9ZTHolBcI" \
> -H "X-User-Id: iLTZmS5m7C2q3jtjF" \
> -H "Content-type:application/json" \
> http://192.168.18.55:3000/api/v1/users.create \
> -d '{"name": "Norma Legarse", "email": "norma@user.tld", "password": "password1234", "username": "norma"}'
```

Request/Response:

```
{"user":{"_id":"JEGmChzC7f58kKiyG","createdAt":"2020-10-22T19:49:54.390Z","username":"norma","emails":[{"address":"norma@user.tld","verified":false}],"type":"user","status":"offline","active":true,"updatedAt":"2020-10-22T19:49:55.867Z","rooms":["GENERAL"],"roles":["user"],"name":"Norma Legarse","settings":{}},"success":true}enrique@elegarse:~$
```

Text Version:

```
{
  "user": {
    "_id": "JEGmChzC7f58kKiyG",
    "createdAt": "2020-10-22T19:49:54.390Z",
    "username": "norma",
    "emails": [
      {
        "address": "norma@user.tld",
        "verified": false
      }
    ],
    "type": "user",
    "status": "offline",
    "active": true,
    "updatedAt": "2020-10-22T19:49:55.867Z",
    "rooms": ["GENERAL"],
    "roles": ["user"],
    "name": "Norma Legarse",
    "settings": {}
  },
  "success": true
}
```

b. Get the room information via an API endpoint

API Query:

```
enrique@elegarse:~$ curl -H "X-Auth-Token: bqY4Dfu7Tdr-uA-G0gxJpItKjTB0_v3Met9ZTHolBcI" \
> -H "X-User-Id: iLTZmS5m7C2q3jtjF" \
> http://192.168.18.55:3000/api/v1/rooms.info?roomId=iLTZmS5m7C2q3jtjFrocket.cat
```

Request/Response:

```
{"room":{"_id":"iLTZmS5m7C2q3jtjFrocket.cat","t":"d","usernames":["elegarse","rocket.cat"],"usersCount":2,"msgs":1,"ts":"2020-10-21T20:53:52.152Z","uids":["iLTZmS5m7C2q3jtjF","rocket.cat"],"updatedAt":"2020-10-21T20:53:56.627Z","lastMessage":{"_id":"DQsJJPRBASRgTwKYf","rid":"iLTZmS5m7C2q3jtjFrocket.cat","msg":"test","ts":"2020-10-21T20:53:56.472Z","u":{"_id":"iLTZmS5m7C2q3jtjF","username":"elegarse"},"mentions":[],"channels":[],"updatedAt":"2020-10-21T20:53:56.602Z"},"lm":"2020-10-21T20:53:56.472Z"},"success":true}enrique@elegarse:~$
```

Text Version:

```
{
  "room": {
    "_id": "iLTZmS5m7C2q3jtjFrocket.cat",
    "t": "d",
    "usernames": ["elegarse", "rocket.cat"],
    "usersCount": 2,
    "msgs": 1,
    "ts": "2020-10-21T20:53:52.152Z",
    "uids": ["iLTZmS5m7C2q3jtjF", "rocket.cat"],
    "updatedAt": "2020-10-21T20:53:56.627Z",
    "lastMessage": {
      "_id": "DQsJJPRBASRgTwKYf",
      "rid": "iLTZmS5m7C2q3jtjFrocket.cat",
      "msg": "test",
      "ts": "2020-10-21T20:53:56.472Z",
      "u": {
        "_id": "iLTZmS5m7C2q3jtjF",
        "username": "elegarse"
      },
      "mentions": [],
      "channels": [],
      "updatedAt": "2020-10-21T20:53:56.602Z"
    },
    "lm": "2020-10-21T20:53:56.472Z"
  },
  "success": true
}
```

c. Get a list of all user roles in the system via an API endpoint

API Query:

```
enrique@elegarse:~$ curl -H "X-Auth-Token: EExGZooyeIud8JuQtmnpycBjXlY5p-g3FIXJM-lQGc7" \
> -H "X-User-Id: iLTZmS5m7C2g3jtjF" \
> http://192.168.18.55:3000/api/v1/roles.list
```

Request/Response:

```
{
  "roles": [
    {
      "_id": "admin",
      "description": "Admin",
      "mandatory2fa": false,
      "name": "admin",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "moderator",
      "description": "Moderator",
      "mandatory2fa": false,
      "name": "moderator",
      "protected": true,
      "scope": "Subscriptions"
    },
    {
      "_id": "leader",
      "description": "Leader",
      "mandatory2fa": false,
      "name": "leader",
      "protected": true,
      "scope": "Subscriptions"
    },
    {
      "_id": "owner",
      "description": "Owner",
      "mandatory2fa": false,
      "name": "owner",
      "protected": true,
      "scope": "Subscriptions"
    },
    {
      "_id": "user",
      "description": "",
      "mandatory2fa": false,
      "name": "user",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "bot",
      "description": "",
      "mandatory2fa": false,
      "name": "bot",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "app",
      "description": "",
      "mandatory2fa": false,
      "name": "app",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "guest",
      "description": "",
      "mandatory2fa": false,
      "name": "guest",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "anonymous",
      "description": "",
      "mandatory2fa": false,
      "name": "anonymous",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "livechat-agent",
      "description": "Livechat Agent",
      "mandatory2fa": false,
      "name": "livechat-agent",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "livechat-manager",
      "description": "Livechat Manager",
      "mandatory2fa": false,
      "name": "livechat-manager",
      "protected": true,
      "scope": "Users"
    }
  ],
  "success": true
}
```

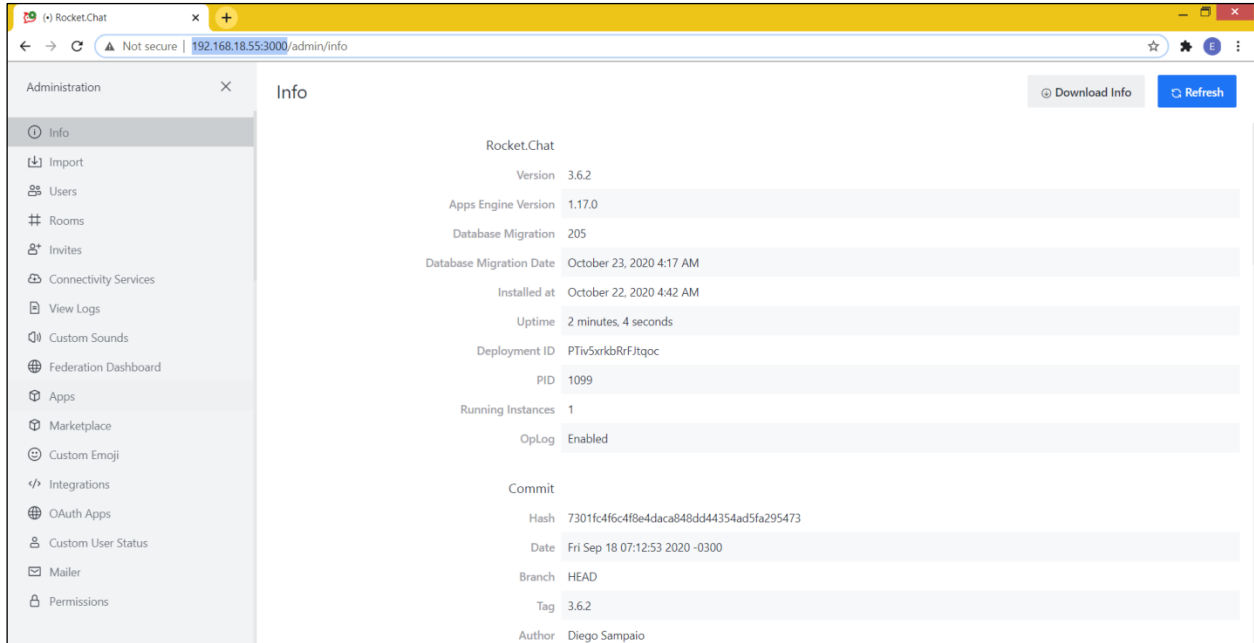
Text Version:

```
{
  "roles": [
    {
      "_id": "admin",
      "description": "Admin",
      "mandatory2fa": false,
      "name": "admin",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "moderator",
      "description": "Moderator",
      "mandatory2fa": false,
      "name": "moderator",
      "protected": true,
      "scope": "Subscriptions"
    },
    {
      "_id": "leader",
      "description": "Leader",
      "mandatory2fa": false,
      "name": "leader",
      "protected": true,
      "scope": "Subscriptions"
    },
    {
      "_id": "owner",
      "description": "Owner",
      "mandatory2fa": false,
      "name": "owner",
      "protected": true,
      "scope": "Subscriptions"
    },
    {
      "_id": "user",
      "description": "",
      "mandatory2fa": false,
      "name": "user",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "bot",
      "description": "",
      "mandatory2fa": false,
      "name": "bot",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "app",
      "description": "",
      "mandatory2fa": false,
      "name": "app",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "guest",
      "description": "",
      "mandatory2fa": false,
      "name": "guest",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "anonymous",
      "description": "",
      "mandatory2fa": false,
      "name": "anonymous",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "livechat-agent",
      "description": "Livechat Agent",
      "mandatory2fa": false,
      "name": "livechat-agent",
      "protected": true,
      "scope": "Users"
    },
    {
      "_id": "livechat-manager",
      "description": "Livechat Manager",
      "mandatory2fa": false,
      "name": "livechat-manager",
      "protected": true,
      "scope": "Users"
    }
  ],
  "success": true
}
```

Important: The results of the tests must be published in a GitHub repository named “Rocket.Chat_Support_YourFirstName_YourLastName”

Please visit this link: https://github.com/elegarse/Rocket.Chat_Support_Enrique_Legarse/tree/master

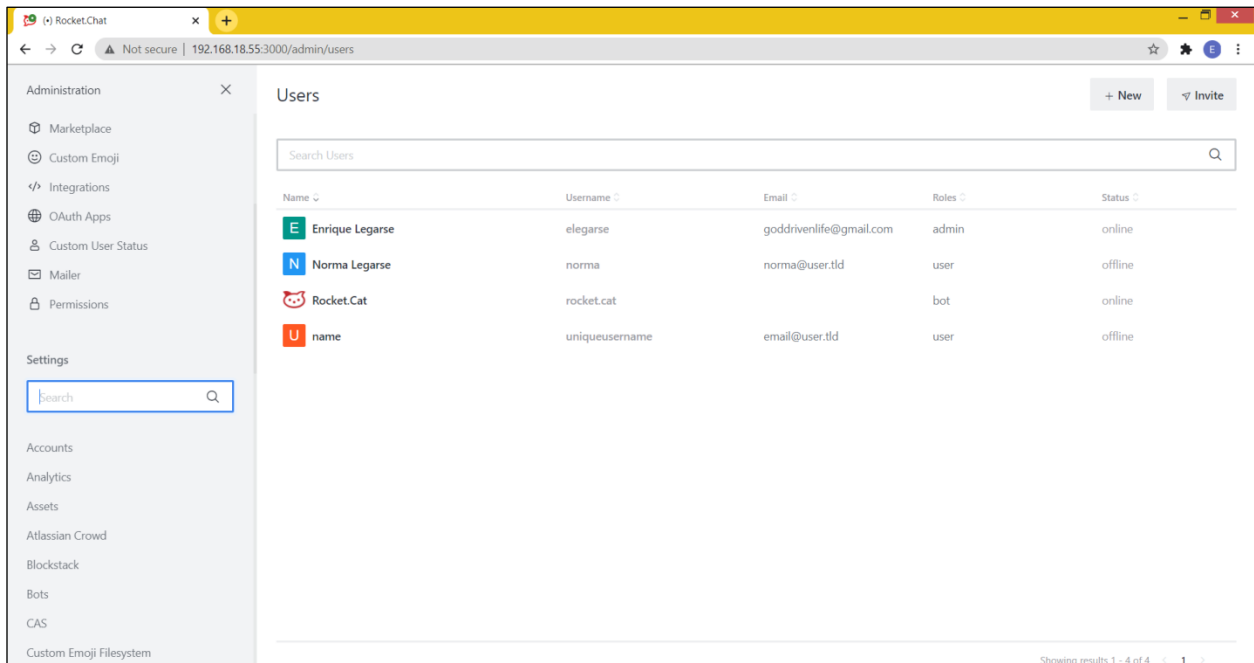
Screenshots:







This screenshot shows the 'Info' page in the Rocket.Chat administration interface. The left sidebar contains a menu with options like 'Info', 'Import', 'Users', 'Rooms', 'Invites', 'Connectivity Services', 'View Logs', 'Custom Sounds', 'Federation Dashboard', 'Apps', 'Marketplace', 'Custom Emoji', 'Integrations', 'OAuth Apps', 'Custom User Status', 'Mailer', and 'Permissions'. The main content area displays system information for 'Rocket.Chat'.

Rocket.Chat	
Version	3.6.2
Apps Engine Version	1.17.0
Database Migration	205
Database Migration Date	October 23, 2020 4:17 AM
Installed at	October 22, 2020 4:42 AM
Uptime	2 minutes, 4 seconds
Deployment ID	PTiv5xrkbRrFJtqoc
PID	1099
Running Instances	1
OpLog	Enabled

Commit	
Hash	7301fc4f6c4f9e4daca848dd44354ad5fa295473
Date	Fri Sep 18 07:12:53 2020 -0300
Branch	HEAD
Tag	3.6.2
Author	Diego Sampaio



This screenshot shows the 'Users' page in the Rocket.Chat administration interface. The left sidebar is similar to the first screenshot but includes 'Settings' and 'Accounts' sections. The main content area displays a list of users with a search bar at the top.

Name	Username	Email	Roles	Status
 Enrique Legarse	elegarse	goddrivenlife@gmail.com	admin	online
 Norma Legarse	norma	norma@user.tld	user	offline
 Rocket.Cat	rocket.cat		bot	online
 name	uniqueusername	email@user.tld	user	offline

Showing results 1 - 4 of 4