

ZenHub

ZenHub Enterprise VMware Installation Guide

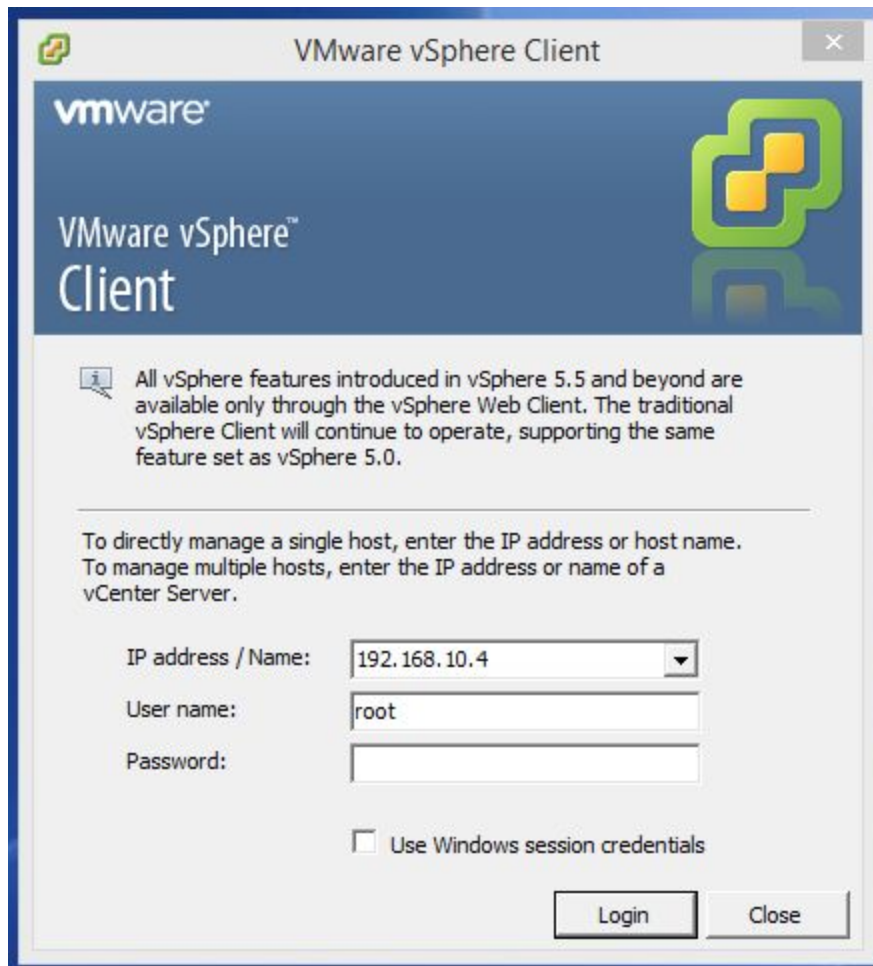


Thank you for choosing **ZenHub Enterprise**! You are almost ready to start visualizing your GitHub workflow. This short guide outlines the **VMware installation process**. Do not hesitate to contact the ZenHub team at any time for assistance (enterprise@zenhub.com). You will begin by installing the vSphere Client.

Install the vSphere Client

If you haven't already, download the client from your existing ESXi appliance and install it.

After the installation, launch the client and fill in the required fields (IP Address, username, password) to connect to your ESXi appliance.



Download the ZenHub Enterprise virtual appliance

Find the **ZenHub Enterprise** 2.18 OVA files in the links below.

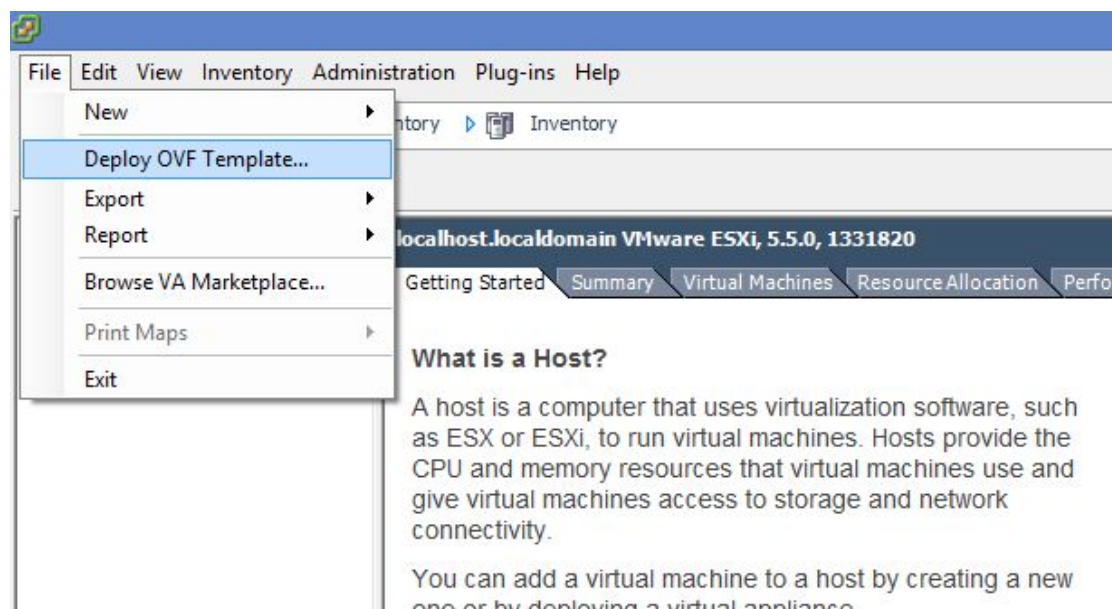
We support hardware versions 8-11. Please see VMware [compatibility](#) for your ESXi appliance and download the corresponding version.

Hardware Version	MD5 Hash
8	md5sum
9	md5sum
10	md5sum
11	md5sum

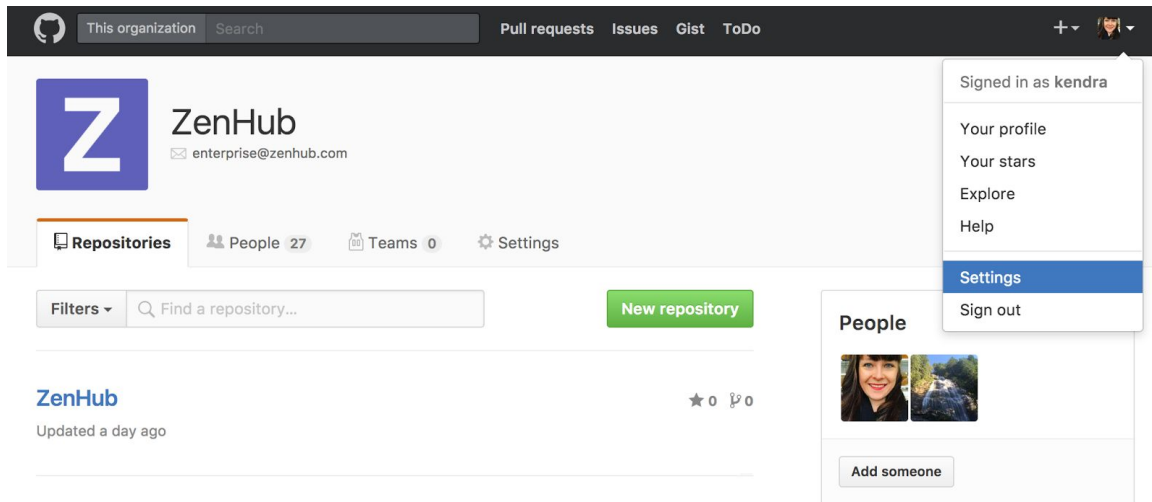
Import the ZenHub Enterprise appliance

After connecting the vSphere client to your ESXi appliance, import the **ZenHub Enterprise** appliance. On the **File** menu, select **Deploy OVF Template**: Follow the Import Wizard instructions.

The default values are our recommendations for **ZenHub Enterprise**. Once imported, ensure the appliance is running before proceeding.



On the **Settings** page, select the **OAuth Applications** tab from the sub-navigation bar on your left. Click **Developer Applications**, and finally, select **Register New Application** on the top-right corner.




Select **Register a new application** and fill in the registration form with the following information.

- **Application name:** ZenHub Enterprise
- **Homepage URL:** <https://zenhub.com>
- **Application description:** (optional)
- **Authorization callback URL:** <https://> + [Your ZenHub Enterprise address] + </auth/github/callback>.

For example, if your **ZenHub Enterprise** IP address is **192.168.10.7**, then the authorization callback URL becomes <https://192.168.10.7/auth/github/callback>.

Note: If you choose to use a domain (Ex. zenhub.company.com) instead of an IP address, then the callback URL should be <https://zenhub.company.com/auth/github/callback>.

You must ensure your DNS server points that domain (zenhub.company.com) to your ZenHub Enterprise IP address. You can also **upload an image** to make finding your OAuth application easier. You can download the image [here](#).

Personal settings	Register a new OAuth application
Profile	
Account	
Emails	
Notifications	
SSH and GPG keys	
Security	
OAuth applications	
Personal access tokens	
Repositories	
Organizations	
Saved replies	
Organization settings	
 zenhub	

Application name

Something users will recognize and trust

Homepage URL

The full URL to your application homepage

Application description

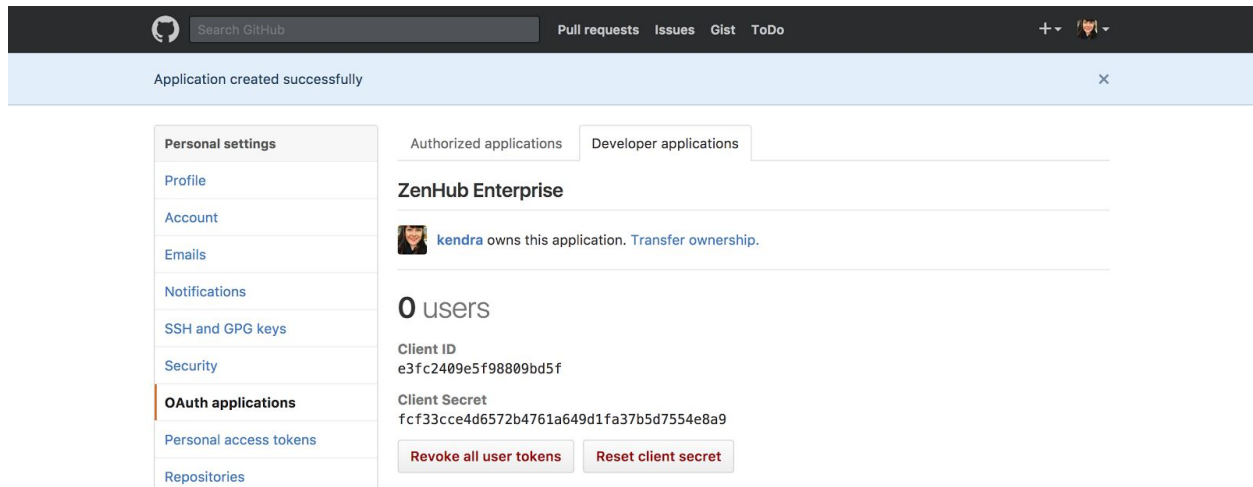
This is displayed to all potential users of your application

Authorization callback URL

Your application's callback URL. Read our [OAuth documentation](#) for more information.

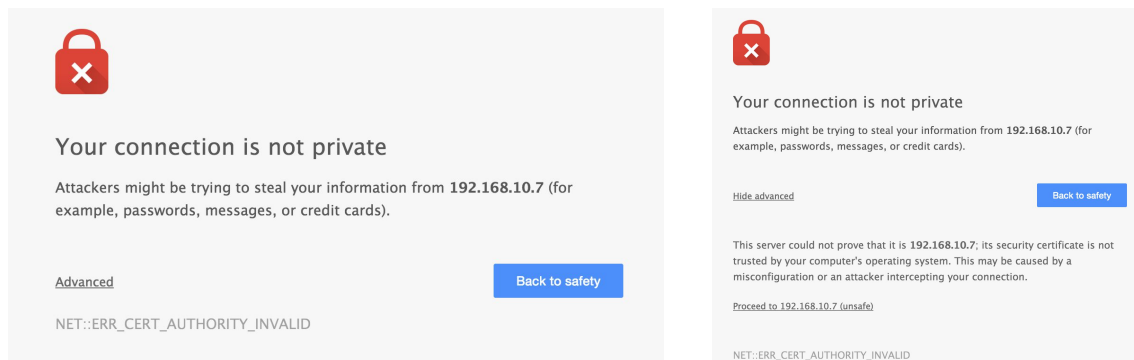
[Register application](#) [Cancel](#)

Once you register the application, you will see a page similar to the one below. Take note of the **Client ID** and **Client Secret** as you will need them later.



Configure Your ZenHub Enterprise Instance

Access the ZenHub Enterprise **Settings** page via the URL provided in Step 4. You will see the following image:

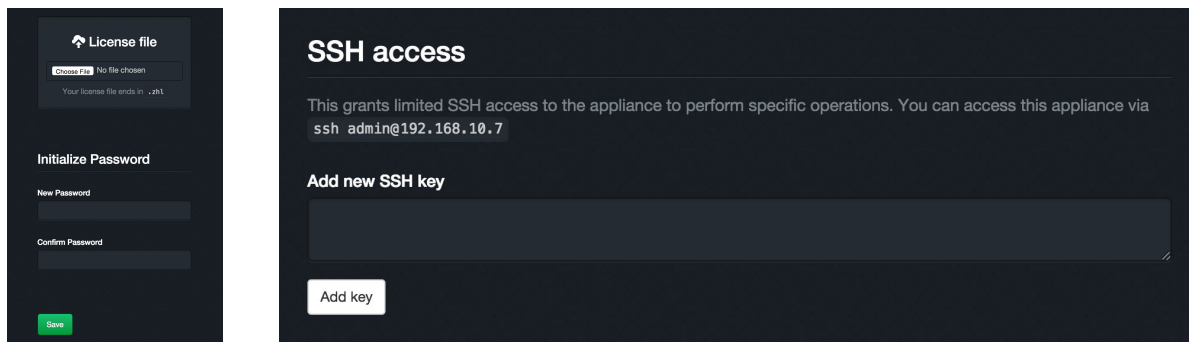


This warning is displayed because a self-signed certificate is being used in order to establish a SSL connection. Once SSL settings are configured, this warning will no longer appear. For now, click on **Advanced**, and then click on **Proceed to appliance_ip_address (unsafe)**.

You will be redirected to the ZenHub Enterprise **License** page. Here, you will be prompted to upload a valid license file (.zhl) and initialize a password for the Settings page. Click **Save** to proceed.

Note: The password will be required for login when accessing the **Settings** page, **Change Password** page, and **User Report** page. You can share the **Extension Download** page with your team, as it does **not** require authentication.

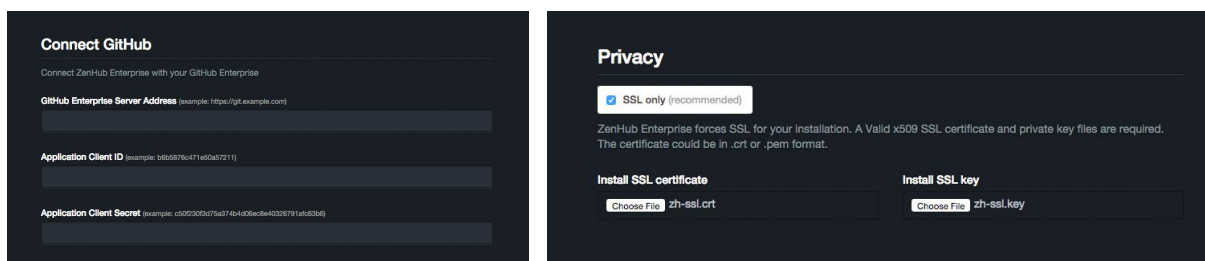
Optional: In the **SSH access** section, add your ssh key to the textbox and click **Add key**. Adding the ssh here will allow you to ssh into the ZenHub Enterprise Appliance. This is useful if you forget your Settings page password.



The image shows two side-by-side screenshots of the ZenHub Enterprise configuration interface. The left screenshot is the 'License file' page, which has a 'Choose File' button and a text input for the license file path. Below this is the 'Initialize Password' section with 'New Password' and 'Confirm Password' fields and a 'Save' button. The right screenshot is the 'SSH access' page, which explains that it grants limited SSH access to the appliance. It shows a terminal snippet: 'ssh admin@192.168.10.7'. There is a section to 'Add new SSH key' with a large text area and an 'Add key' button.

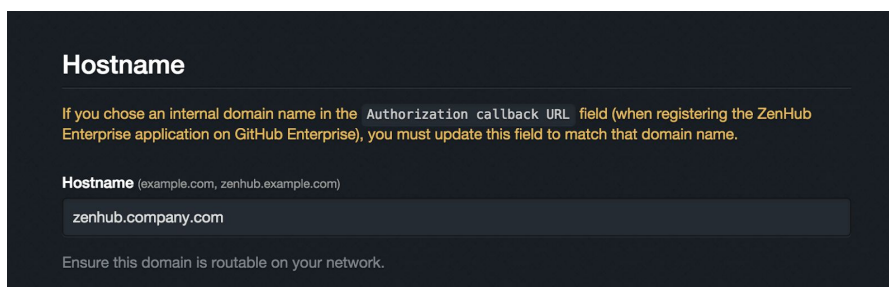
Navigate to the **Connect GitHub** section. You will see a form like the image below. Enter the homepage address of your GitHub Enterprise instance. Also enter the **Client ID** and **Client Secret** (generated from the previous step). Under the **Privacy** header, you will see **SSL only** is enabled by default.

Click **Choose File** to install your SSL Certificate (in PEM format.) This file will usually have a **.pem**, **.crt**, or **.cer** extension. Then click **Choose file** to install your SSL Key. This file will usually have a **.key** extension. The private key **must not** have a passphrase. To enable SSL, you must configure the Hostname and DNS.



The image shows two side-by-side screenshots of the ZenHub Enterprise configuration interface. The left screenshot is the 'Connect GitHub' page, which has fields for 'GitHub Enterprise Server Address', 'Application Client ID', and 'Application Client Secret'. The right screenshot is the 'Privacy' page, which has a toggle for 'SSL only (recommended)' which is checked. Below this is a note about SSL requirements. There are two sections: 'Install SSL certificate' with a 'Choose File' button and 'zh-ssl.crt', and 'Install SSL key' with a 'Choose File' button and 'zh-ssl.key'.

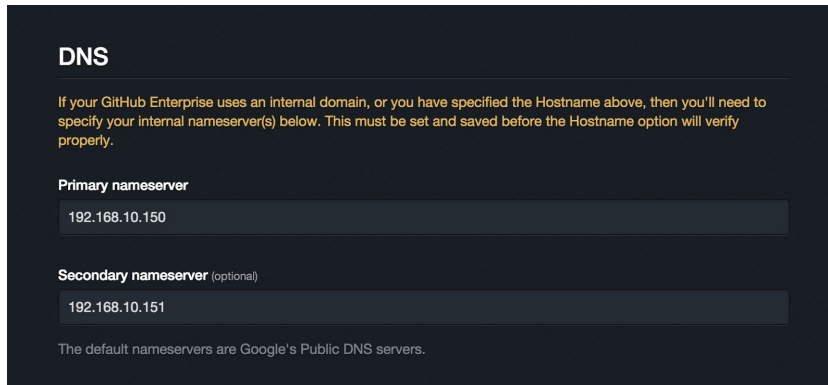
Note: The **Hostname** will automatically appear as the ZenHub Enterprise IP address. If you chose an internal domain name in the **Authorization callback URL** field (when registering the **ZenHub Enterprise** application on **GitHub Enterprise**) in step 5.3, you must update this field to match that domain name.



The image shows a screenshot of the 'Hostname' configuration page. It has a heading 'Hostname' and a note: 'If you chose an internal domain name in the Authorization callback URL field (when registering the ZenHub Enterprise application on GitHub Enterprise), you must update this field to match that domain name.' Below this is a text input field with the placeholder '(example.com, zenhub.example.com)' and the value 'zenhub.company.com'. At the bottom, it says 'Ensure this domain is routable on your network.'

If your **GitHub Enterprise** instance uses an internal domain (for example: git.company.com) or you have specified the Hostname above, you must specify the Primary and Secondary DNS nameservers below.

This will enable **ZenHub Enterprise** to sign in the user with **GitHub Enterprise** OAuth.



DNS

If your GitHub Enterprise uses an internal domain, or you have specified the Hostname above, then you'll need to specify your internal nameserver(s) below. This must be set and saved before the Hostname option will verify properly.

Primary nameserver

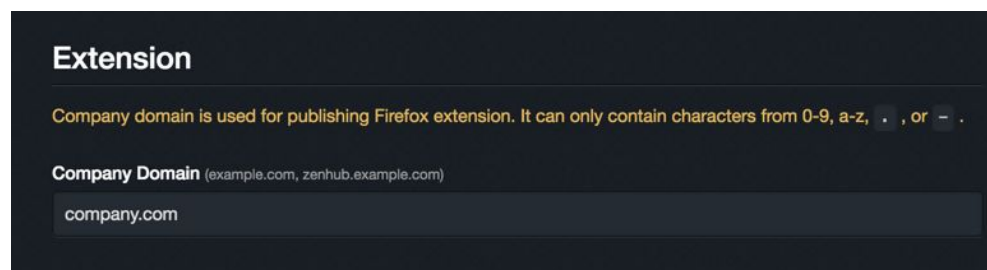
192.168.10.150

Secondary nameserver (optional)

192.168.10.151

The default nameservers are Google's Public DNS servers.

Note: If, when a user signs into the **ZenHub Enterprise** extension, a “*Fail to sign in ZenHub*” error message appears, check your **GitHub Enterprise** server address in Step 6.1. Also check the **DNS settings** above to ensure the nameservers are able to point your **GitHub Enterprise** server address to the correct IP address. **Enter your Company Domain.** This will be used when we are publishing the Extensions.



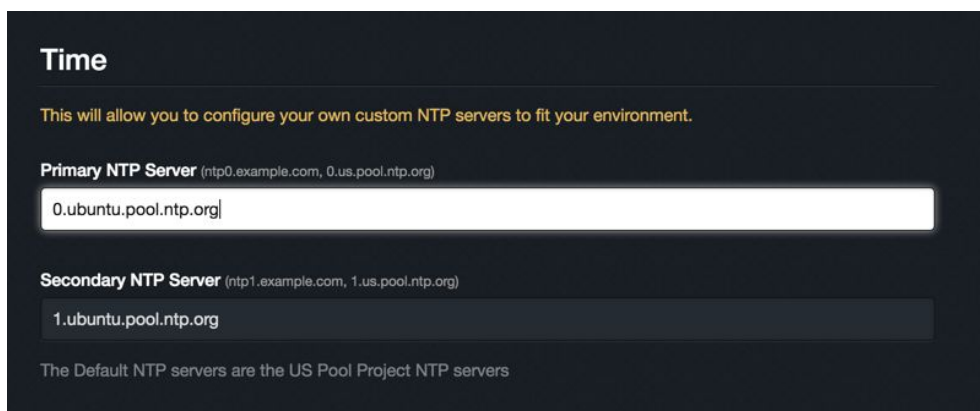
Extension

Company domain is used for publishing Firefox extension. It can only contain characters from 0-9, a-z, ., or -.

Company Domain (example.com, zenhub.example.com)

company.com

To configure a custom NTP Server for the ZenHub Enterprise Appliance, add a NTP server address to the Primary and Secondary NTP Server fields. ZenHub Enterprise Appliances use the US Ubuntu NTP Pool Servers by default.



Time

This will allow you to configure your own custom NTP servers to fit your environment.

Primary NTP Server (ntp0.example.com, 0.us.pool.ntp.org)

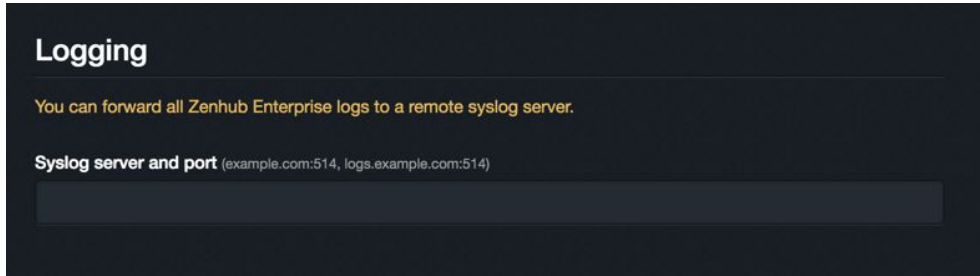
0.ubuntu.pool.ntp.org

Secondary NTP Server (ntp1.example.com, 1.us.pool.ntp.org)

1.ubuntu.pool.ntp.org

The Default NTP servers are the US Pool Project NTP servers

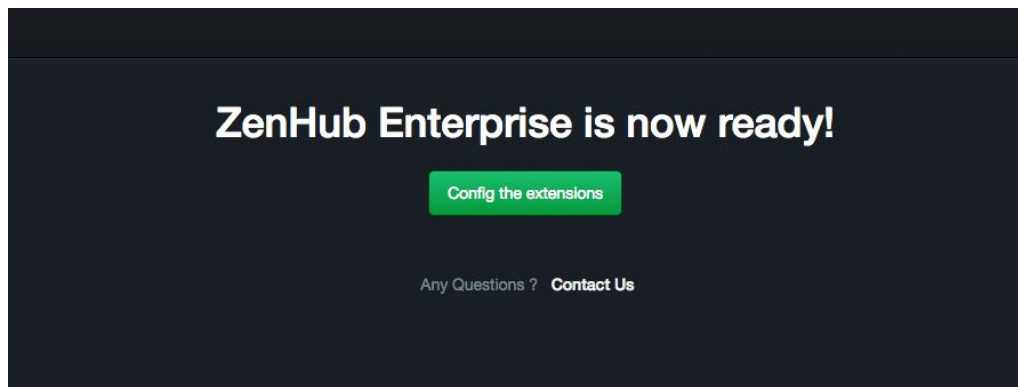
Optional: Configure the Appliance to forward its logs to a remote syslog server.



The screenshot shows a dark-themed configuration window titled "Logging". Below the title, a yellow text line states: "You can forward all Zenhub Enterprise logs to a remote syslog server." Underneath, there is a label "Syslog server and port" followed by a placeholder text "(example.com:514, logs.example.com:514)". A dark input field is positioned below the label.

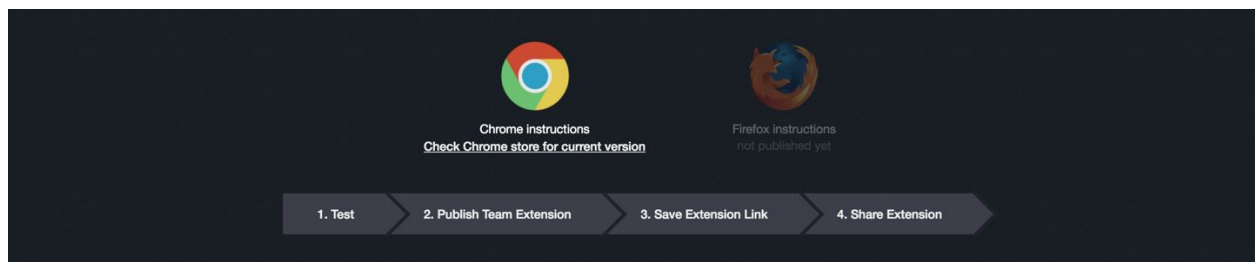
Click **Save settings**. This process can take up to 10 minutes.

When the settings are saved, you will see a button prompting you to **Config the Extension**. It will redirect you to the extension configuration page



Configure the ZenHub extension

The extension page explains how to publish the extensions for Chrome and Firefox. Follow the instructions for each browser to configure and publish the extension, and make the extension link available to users.



Distribute the Extension

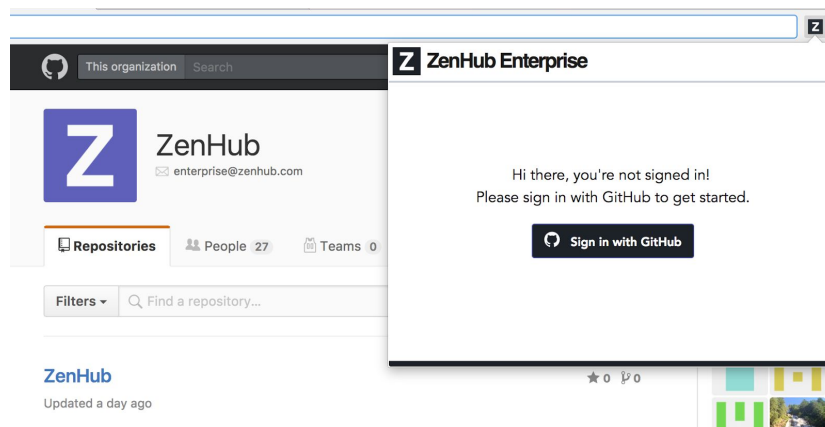
ZenHub Enterprise is now ready to be shared with your team. To install ZenHub Enterprise on Chrome or Firefox, new users can visit the following URL:

<https://<zenhub-enterprise-hostname>/setup/download>

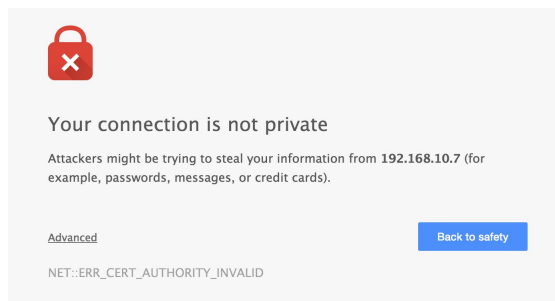
Note: You may wish to copy this URL to an internal wiki or support page so new users can easily download the ZenHub Enterprise extension.

Sign in to ZenHub Enterprise

Sign in to ZenHub Enterprise through the black icon to the right of your address bar.



Note: If you do not have SSL enabled you may see this error screen. Click **Advanced** and **Proceed** to continue.



Sign in using your GitHub credentials, and you're ready to roll! Your version of ZenHub Enterprise is ready! If you have any questions regarding your ZenHub Enterprise installation, we are happy to assist you.

Primary contact: enterprise@zenhub.com