



Deployment Guide

Version 2.0.8

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Document Revision History

July 18, 2017

- Initial release of documentation

August 21, 2017

- Static IP setup

OVA Download

The latest OVA file is available as a secure download hosted on Amazon S3.

Your professional services representative will provide you with a secure link to download the file when it becomes available.

OVA Deployment

Preparations

To set up Biblio, you must have:

- Biblio OVA
- Supported virtual infrastructure
- MySQL or Microsoft SQL compatible server
- Nginx compatible SSL certificate and SSL certificate key

OVA Deployment

Network

Port Usage

Protocol	Port	Direction	Purpose
HTTPS	443	Inbound	Biblio API
HTTPS	443	Outbound	VCC API
TCP	3306	Outbound	MySQL Server
TCP	1433	Outbound	Microsoft SQL Server
SSH	22	Inbound/Outbound	Cluster administration

OVA Deployment

System Requirements

Supported Platforms

VMware ESXI 5.5 and later are supported.

Cluster Size

The recommended size of a Biblio cluster is 1 node on 1 distinct physical host.

Virtual Machine Configuration

The minimum requirements for a Biblio node are:

CPU: 3 GHz dual core or 4 virtual processors

RAM: 8 GB

STORAGE: 80GB

The recommended requirements for a Biblio node are:

CPU: 3 GHz quad core or 8 virtual processors

RAM: 12 GB

STORAGE: 120GB, low-latency SATA or SSD drives

Browsers

The Biblio interface is supported on the latest versions of Firefox, Internet Explorer, Edge, Chrome, and Safari.

Biblio OVA Deployment

Deploying

Deploy the OVA on your platform as you would any other OVA. Refer to your platform's documentation for instructions on deploying OVA files.

Cluster Setup

Clusters are headless and all nodes are functionally identical.

Individual Node DNS Entries

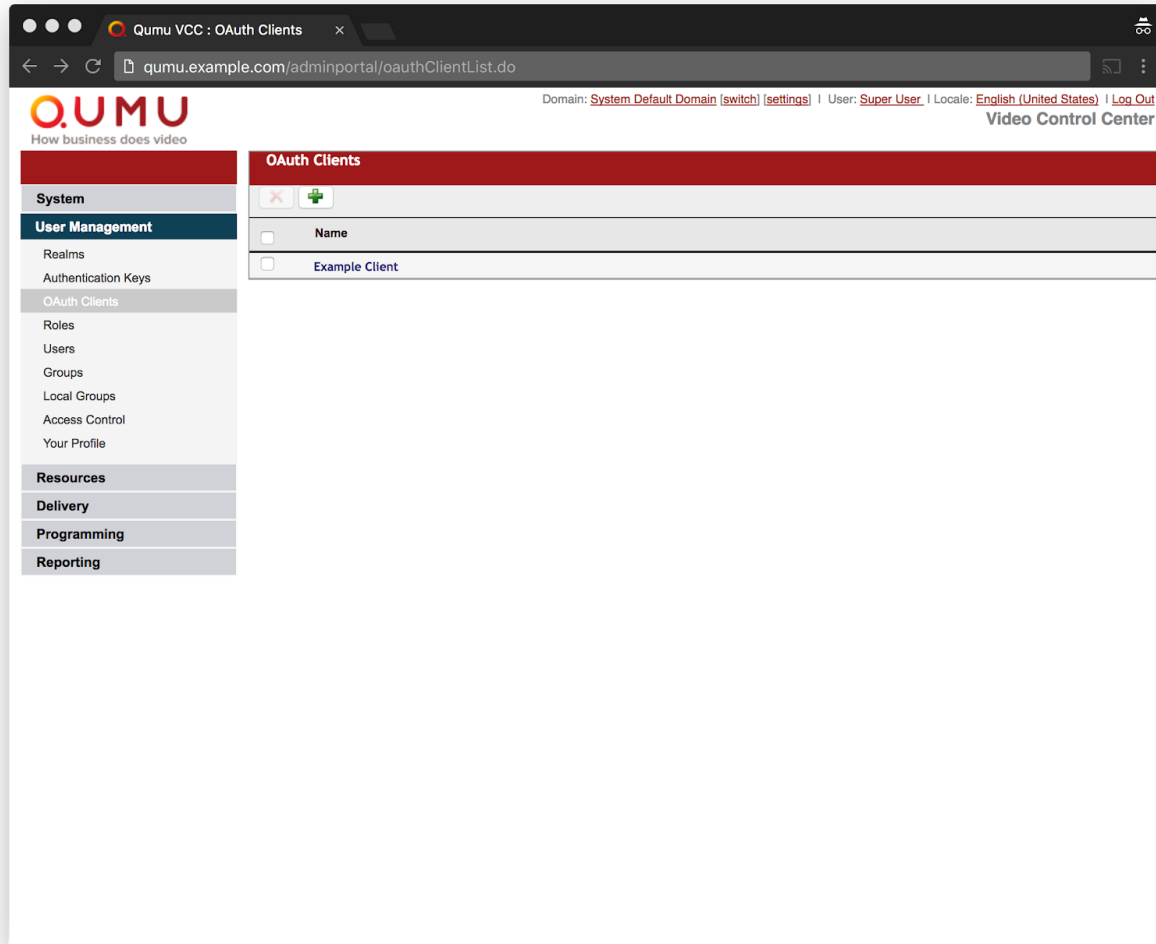
Individual nodes do not require distinct DNS entries but can be assigned one for administrative convenience.

SSL Certificates

The SSL certificate and certificate key should be Nginx compatible. See - http://nginx.org/en/docs/http/configuring_https_servers.html - for more information.

OAuth Client

1. From the Qumu Video Control Center Admin Portal, navigate to **User Management > OAuth Clients** and click the green + button to add a new client



2. Enter the following values for a new OAuth Client and click **Save**. Make note of the values for use when [initializing the cluster](#).
 - a. **Client ID:** [A recognizable value of your choice.]
 - b. **Name:** Biblio
 - c. **Redirect URL Pattern:** `https://[BIBLIO_HOSTNAME]/admin/login`
 - d. **Client Secret:** [A random value of your choice. <https://www.uuidgenerator.net/> helps create these.]
 - e. **Skip User Authorization:** Checked
 - f. **Access Token Expiry (seconds):** 86400
 - g. **Implicit Token Expiry (seconds):** 86400

Qumu VCC : OAuth Clients

qumu.example.com/adminportal/oauthClientCreate.do

Domain: [System Default Domain](#) | [switch](#) | [settings](#) | User: [Super User](#) | Locale: [English \(United States\)](#) | [Log Out](#)

QUMU
How business does video

Add OAuth Client

Client Id *

Name *

Redirect URL Pattern *

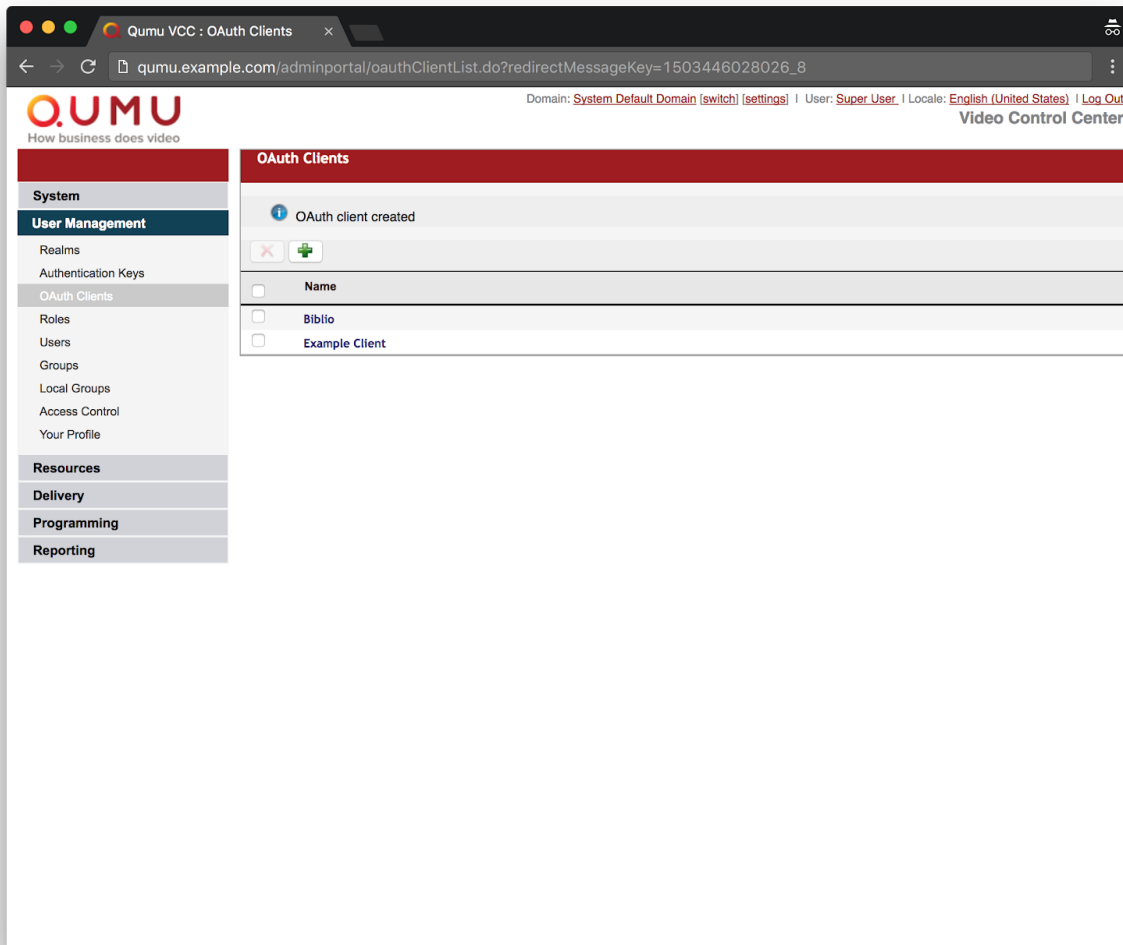
Client Secret *

Skip User Authorization ☒

Access Token Expiry (seconds) *

Implicit Token Expiry (seconds) *

3. Confirm the OAuth client was created and exit the Qumu Video Control Center Admin Portal.

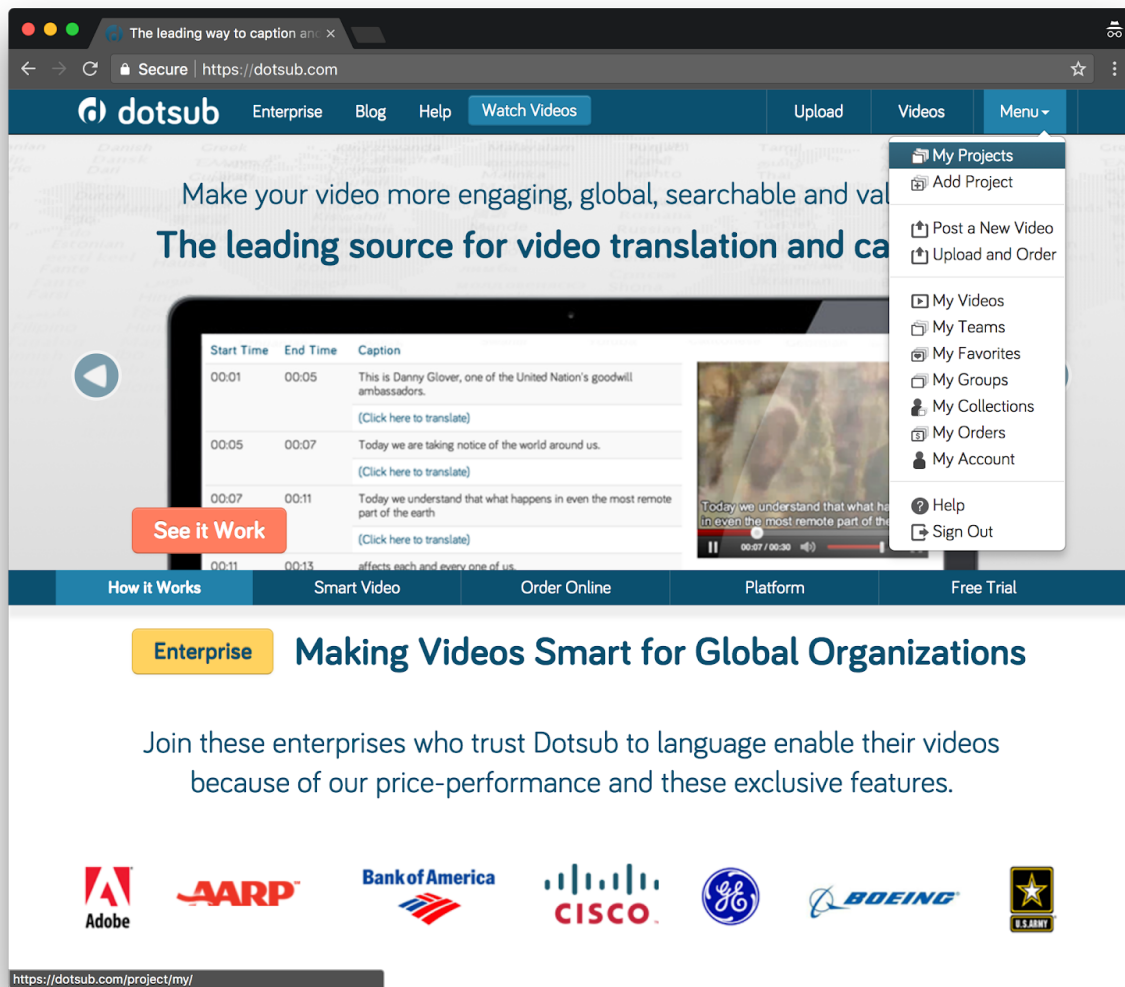


Dotsub Account Setup

In a new browser window, please login to your account at <https://dotsub.com>. If you do not have a Dotsub account, please set one up.

Dotsub Project Setup

1. Go to the **My Projects** page by navigating to **Menu > My Projects** on the top right of the page. If no projects exist, please continue to step 2.



2. If no projects exist, create a new Dotsub project by navigating to **Menu > Add Project**.



- a. Give your project a title, description, and set the default language for this project.

The screenshot shows a web browser window with the URL <https://dotsub.com/project/create#>. The page title is "Create a new Project | Dotsub". The navigation bar includes links for Enterprise, Blog, Help, Watch Videos, Upload, Videos, and Menu. A search bar is located in the top right. Below the navigation bar, there are tabs for Featured, My Videos, Most Viewed, Genre, Collections, Language, and Country. The main heading is "Create a new Project" with the subtext "Please Enter the Project Details". The form contains several fields: "Title *" with a placeholder "Example Project Name", "Description *" with a placeholder "Example Project Description", and "Notes" with a text area. On the right side, there are fields for "Project videos are posted by" (ExampleID with an Edit button), "Default License" (CC - Attribution No Derivatives), and "Default Language *" (English). There is also a checkbox for "New Videos are Publicly Accessible". At the bottom right of the form is a "Continue >" button. Below the form, there is a yellow footer section with a newsletter sign-up form (E-mail, First Name, Last Name) and social media links (Facebook, Twitter, Google Follow, LinkedIn).

Create a new Project | Dotsub

Secure | <https://dotsub.com/project/create#>

dotsub Enterprise Blog Help Watch Videos Upload Videos Menu

Search

Featured My Videos Most Viewed Genre Collections Language Country

Create a new Project

Please Enter the Project Details

Title *
Example Project Name

Description *
Example Project Description

Notes

Project videos are posted by
ExampleID [Edit](#)

Default License
CC - Attribution No Derivatives

Default Language *
English

☐ New Videos are Publicly Accessible

[Continue >](#)

Sign up for our newsletter

E-mail
First Name
Last Name

Follow Us

[Facebook](#)
[Twitter](#)
[Google Follow](#)
[LinkedIn](#)

- b. Check **Enable Subtitle Specifications** and check the following style:
- Include Audio descriptions for the hearing impaired between []**

Create a new Project | Dotsub

Secure | https://dotsub.com/project/create#

Enterprise Blog Help Watch Videos Upload Videos Menu

Search

Featured My Videos Most Viewed Genre Collections Language Country

Create a new Project

Default Subtitle Specifications

☒ Enable Subtitle Specifications

Style

☒ Spoken Audio

☒ Include Audio descriptions for the hearing impaired between []

☐ On-screen text between []

Speaker Identification: First Name (if available)

Dialogue Style: Double Chevron >>

Content Type: Not specified

Formatting

Max Lines Per Caption: n/a

Max Characters per Line: n/a

Min Caption Duration: n/a

Max Caption Duration: n/a

Additional style comments

< Back Continue >

Sign up for our newsletter

E-mail

First Name

Last Name

Follow Us

Facebook

Twitter

Google Follow

LinkedIn

- c. Skip Ingestor Settings, and skip Media Push. Click **Create Project** to complete the project setup.

Create a new Project | Dotsub

Secure | https://dotsub.com/project/create#

dotsub Enterprise Blog Help Watch Videos Upload Videos Menu

Search

Featured My Videos Most Viewed Genre Collections Language Country

Create a new Project

Media Push

☐ Enable Media Push Configuration

Platform: None

< Back Create Project

Sign up for our newsletter

E-mail

First Name

Last Name

Follow Us

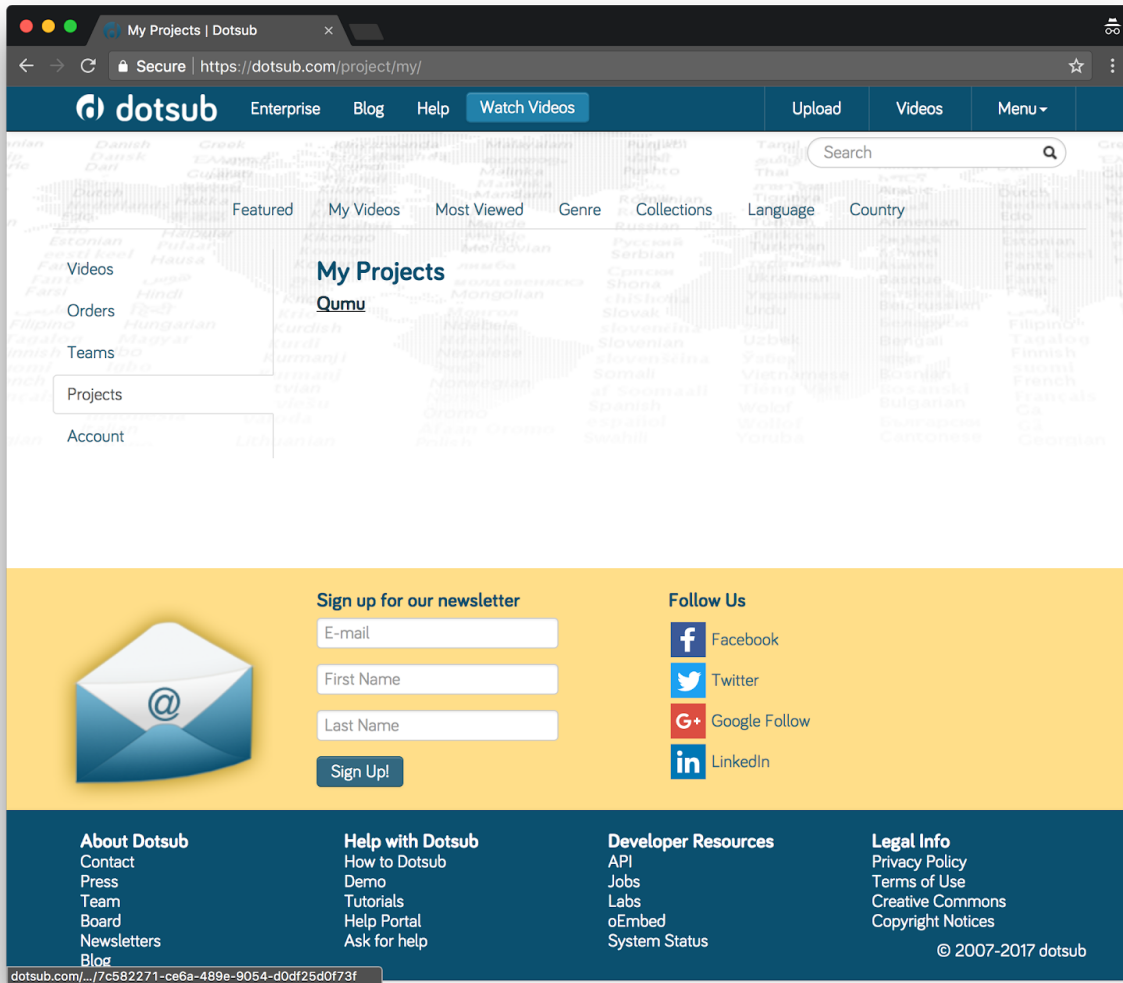
Facebook

Twitter

Google Follow

LinkedIn

- Click on the project that will be used for Biblio.



- Navigate to the **Project Settings** tab and in the **Auto Publish** box, click on the gear icon on the right.

The screenshot displays the Dotsub Project Management interface. The browser address bar shows the URL <https://dotsub.com/dashboard/project/ExampleProjectId>. The page title is "Project: Qumu". The "Project Settings" tab is selected, showing various configuration options for the project.

Menu

- User Menu
- Post a New Video
- Upload and Order
- My Favorites
- My Groups
- My Collections
- My Account
- Sign Out

Project Settings

Videos | Captions | Translations | Captioners | Translators | Translation Offers | Orders | **Project Settings** | Project Information

Media Ingestors

Media Push

Standing Orders

Captions | Translations | Reviews | Burn-Ins

Language

Auto Assign Settings

Caption | Translation | Caption Revisor | Translation Revisor

Language | User

Enabled Auto Assign Settings: ☐ Captions ☐ Translations ☐ Caption Reviews ☐ Translation Reviews

Default Subtitle Specifications

Ping API Settings

Media Ping Enabled: false
Media Ping Address
Order Ping Enabled: false
Order Ping Address

Project Reminders

Type	Description

Project E-mail Templates

Template Name	Enabled
Assign Translation	false
Video Translated	false

Project Defaults

Managers: goodfoot
Default Language: English
Default License: All rights reserved
Default Permission: Private
Videos Posted By: goodfoot

Translator Notes

Language Leads

Language	User	Can Publish

Remove

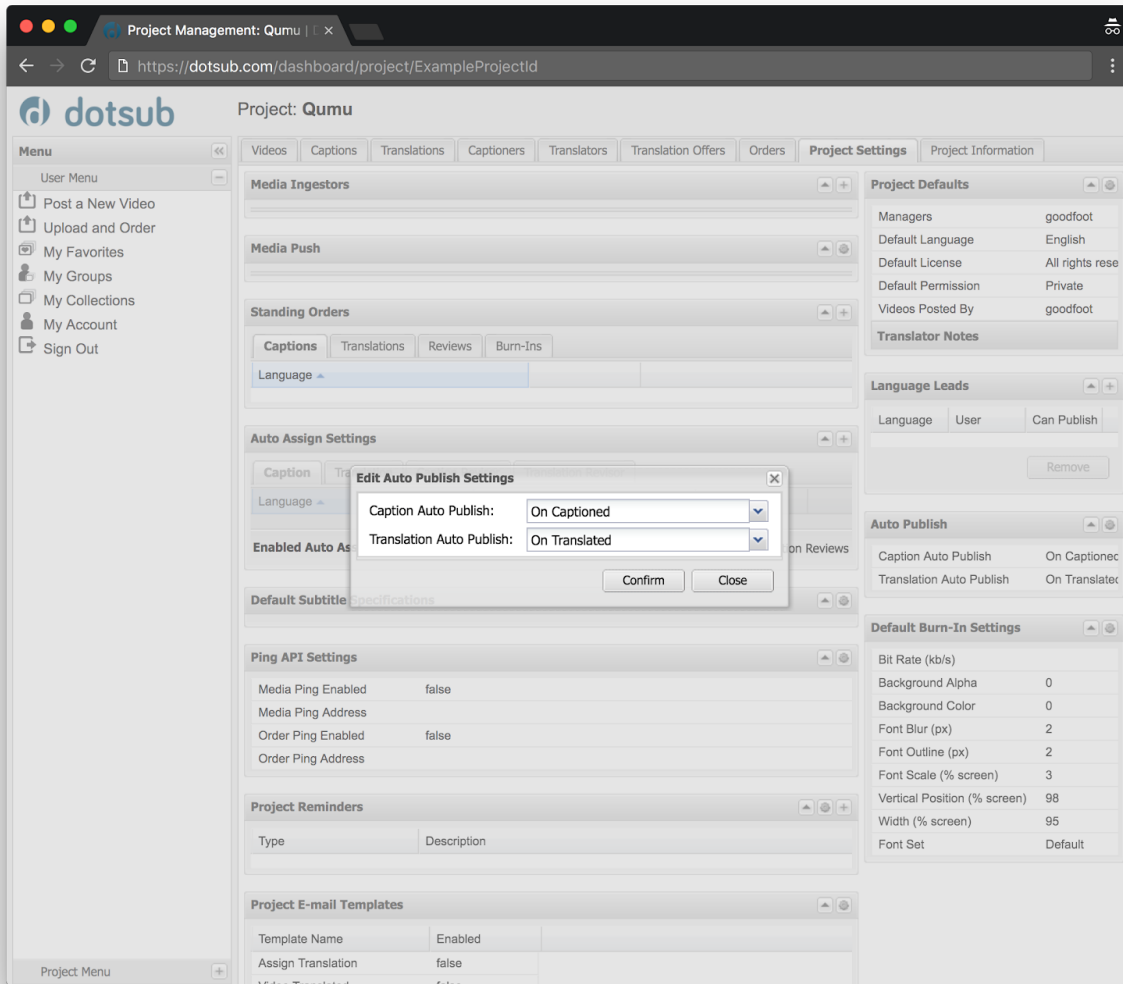
Auto Publish

Caption Auto Publish: On Captioner
Translation Auto Publish: On Translator

Default Burn-In Settings

Bit Rate (kb/s)	
Background Alpha	0
Background Color	0
Font Blur (px)	2
Font Outline (px)	2
Font Scale (% screen)	3
Vertical Position (% screen)	98
Width (% screen)	95
Font Set	Default

5. Please set the **Auto Publish** settings to the following:
 - a. Caption Auto Publish: **On Captioned**
 - b. Translation Auto Publish: **On Translated**



Click **Confirm** to complete the setup. You may now close the window.

Node Setup

Network Setup (DHCP)

By default, nodes use dynamic host configuration protocol (DHCP) on network device eth0. No additional network setup is required on DHCP systems.

Network Setup (Static IP)

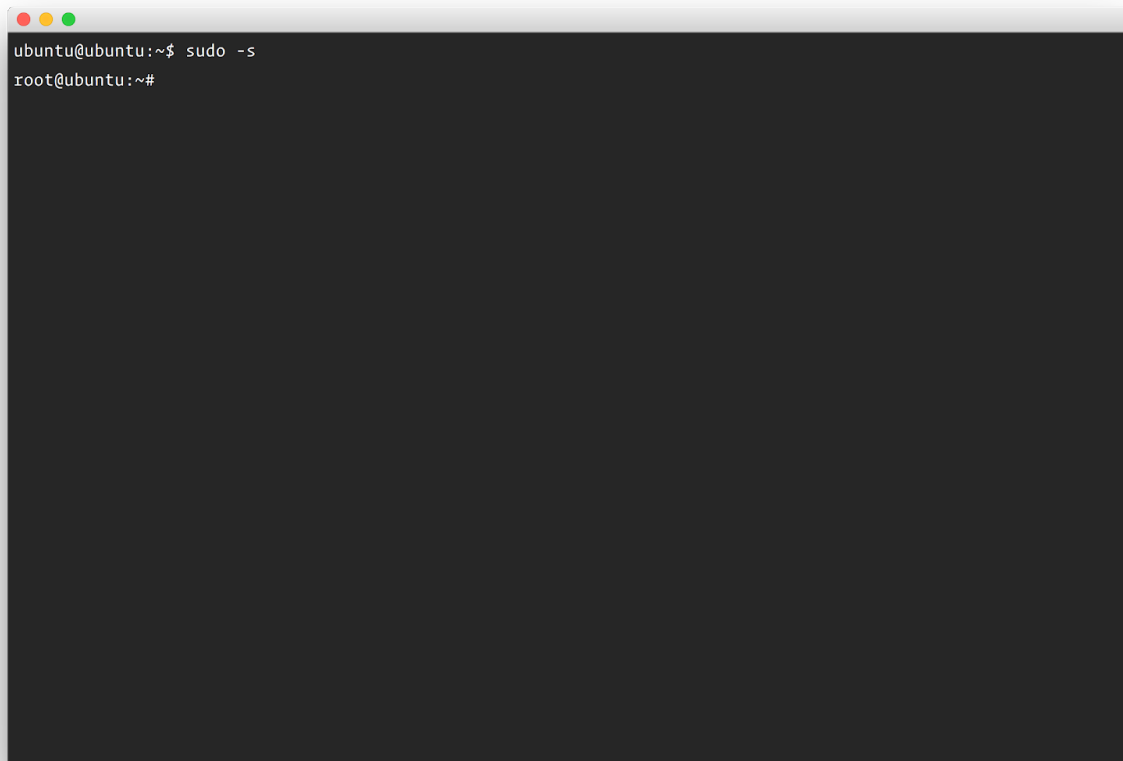
For systems with statically allocated IP addresses:

1. Access the virtual machine terminal.
2. At the login prompt, enter:

```
username: ubuntu  
password: ubuntu
```

3. Run the following command to switch to 'root' user:

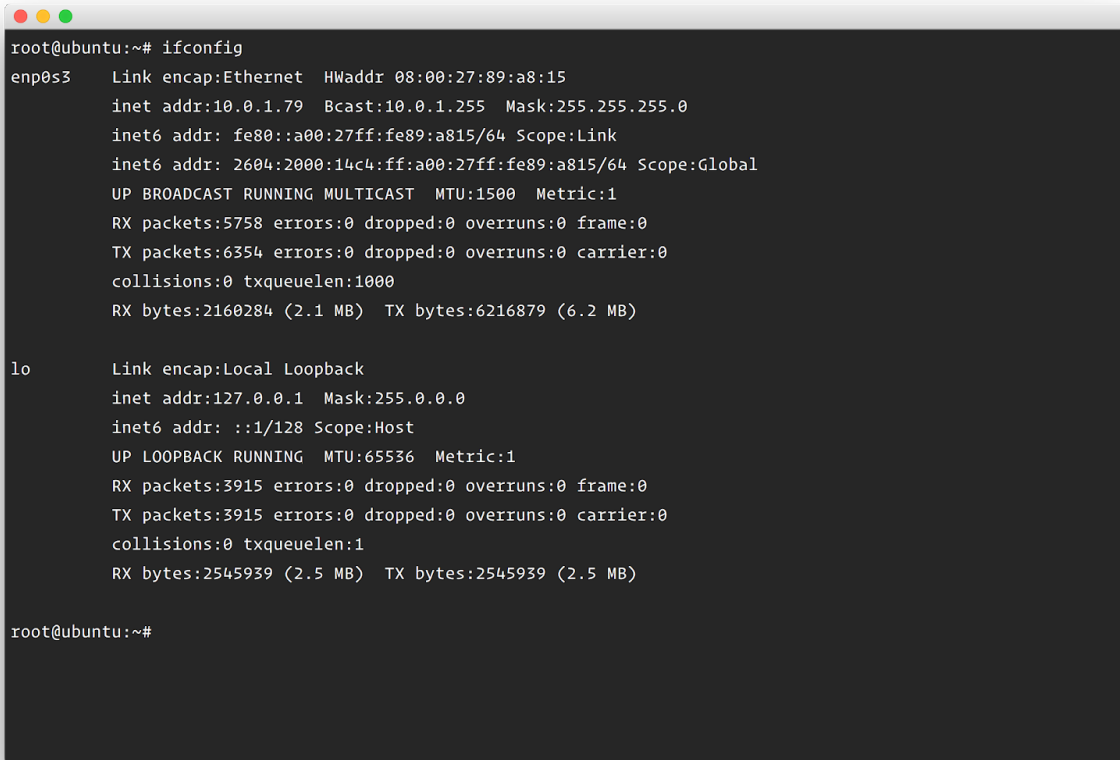
```
sudo -s
```

A screenshot of a terminal window with a dark background and light text. The window has a title bar with three colored buttons (red, yellow, green) on the left. The terminal shows the prompt 'ubuntu@ubuntu:~\$' followed by the command 'sudo -s'. The next line shows the prompt 'root@ubuntu:~#', indicating a successful switch to the root user.

```
ubuntu@ubuntu:~$ sudo -s  
root@ubuntu:~#
```

4. Verify the network interface, In this case it's **enp0s3**

```
ifconfig
```



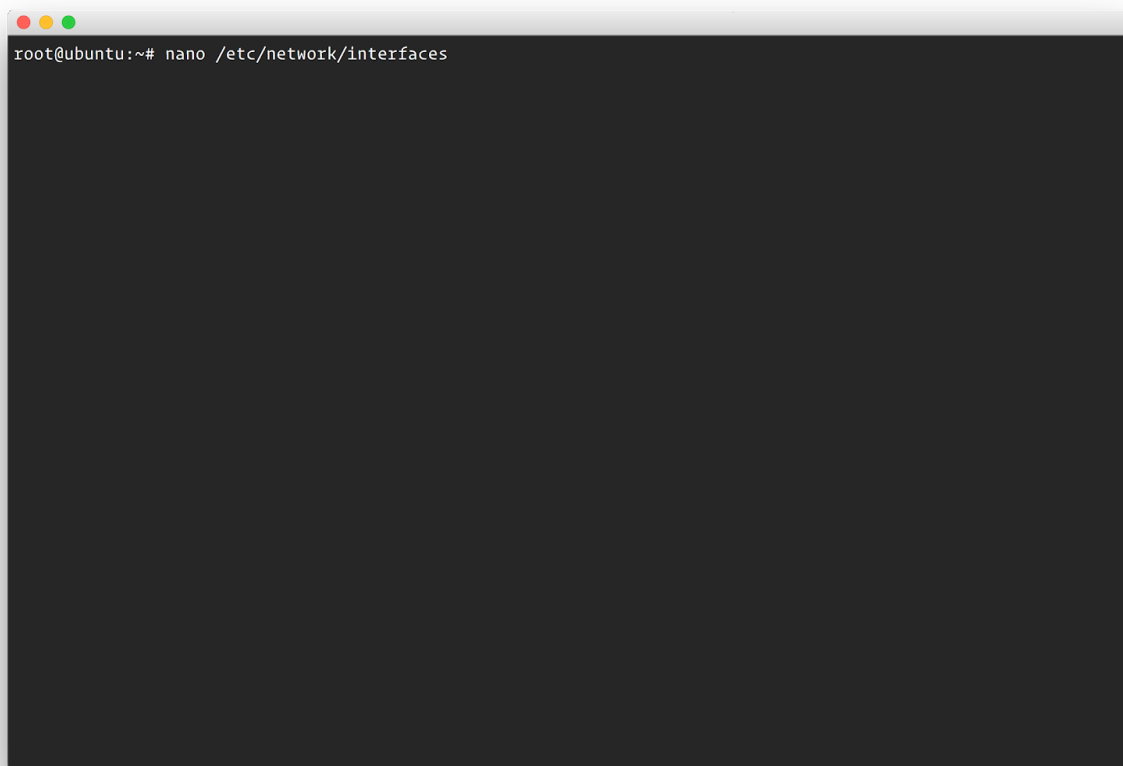
```
root@ubuntu:~# ifconfig
enp0s3  Link encap:Ethernet  HWaddr 08:00:27:89:a8:15
        inet addr:10.0.1.79  Bcast:10.0.1.255  Mask:255.255.255.0
        inet6 addr: fe80::a00:27ff:fe89:a815/64 Scope:Link
        inet6 addr: 2604:2000:14c4:ff:a00:27ff:fe89:a815/64 Scope:Global
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:5758 errors:0 dropped:0 overruns:0 frame:0
        TX packets:6354 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:2160284 (2.1 MB)  TX bytes:6216879 (6.2 MB)

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:65536  Metric:1
        RX packets:3915 errors:0 dropped:0 overruns:0 frame:0
        TX packets:3915 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1
        RX bytes:2545939 (2.5 MB)  TX bytes:2545939 (2.5 MB)

root@ubuntu:~#
```


5. Open the network configuration file for editing:

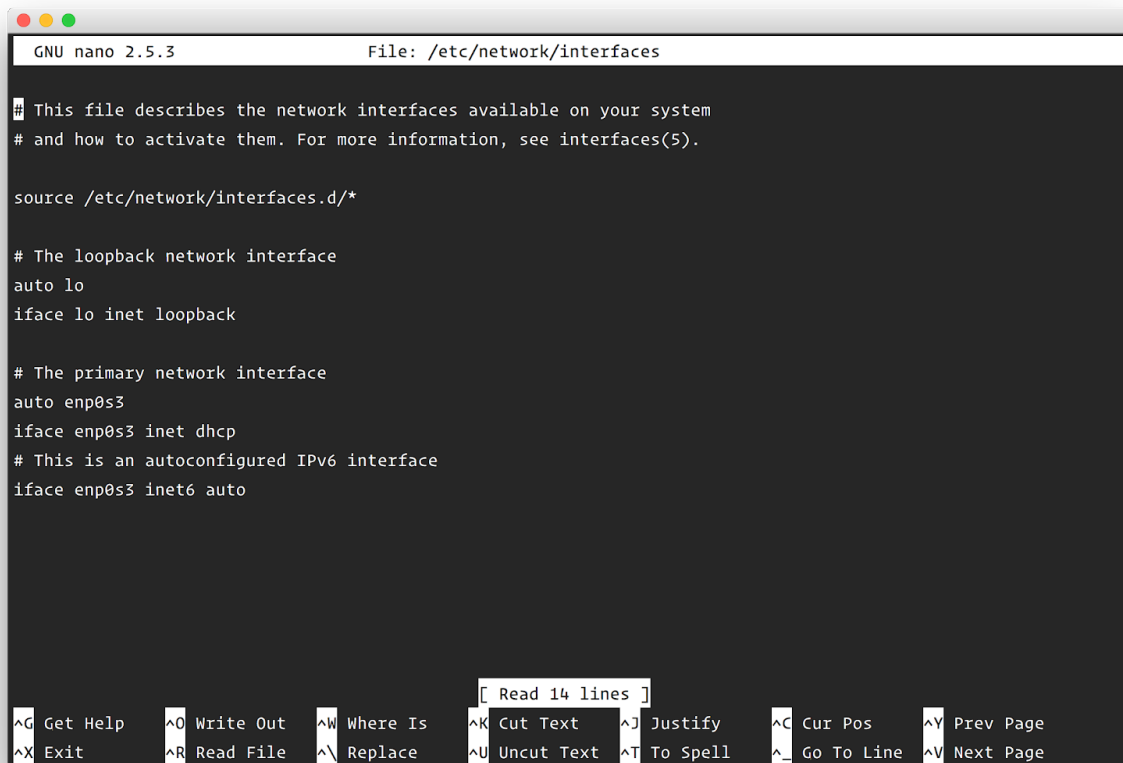
```
nano /etc/network/interfaces
```



6. Review and modify the settings as needed.

- If the primary network interface has a different name, the `/etc/network/interfaces` file may look little different.
- The file will look similar to:

```
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
auto enp0s3
iface enp0s3 inet dhcp
# This is an autoconfigured IPv6 interface
iface enp0s3 inet6 auto
```



```
GNU nano 2.5.3      File: /etc/network/interfaces

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

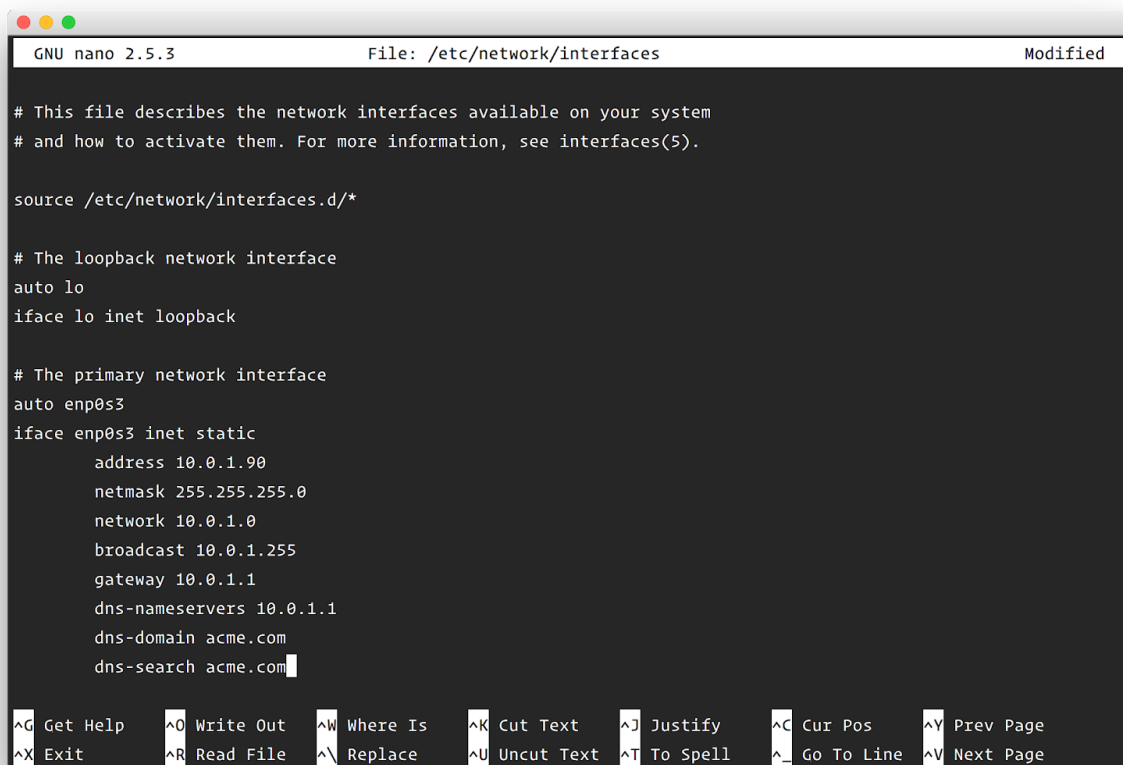
# The primary network interface
auto enp0s3
iface enp0s3 inet dhcp
# This is an autoconfigured IPv6 interface
iface enp0s3 inet6 auto

[ Read 14 lines ]
^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos   ^Y Prev Page
^X Exit      ^R Read File  ^\ Replace   ^U Uncut Text ^T To Spell  ^_ Go To Line ^V Next Page
```

- Your changes will most likely look similar to:

```
# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto enp0s3
iface enp0s3 inet static
    address 10.0.1.90
    netmask 255.255.255.0
    network 10.0.1.0
    broadcast 10.0.1.255
    gateway 10.0.1.1
    dns-nameservers 10.0.1.1
    dns-domain acme.com
    dns-search acme.com
```



The screenshot shows a terminal window with the GNU nano 2.5.3 text editor. The file being edited is /etc/network/interfaces. The content of the file is as follows:

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

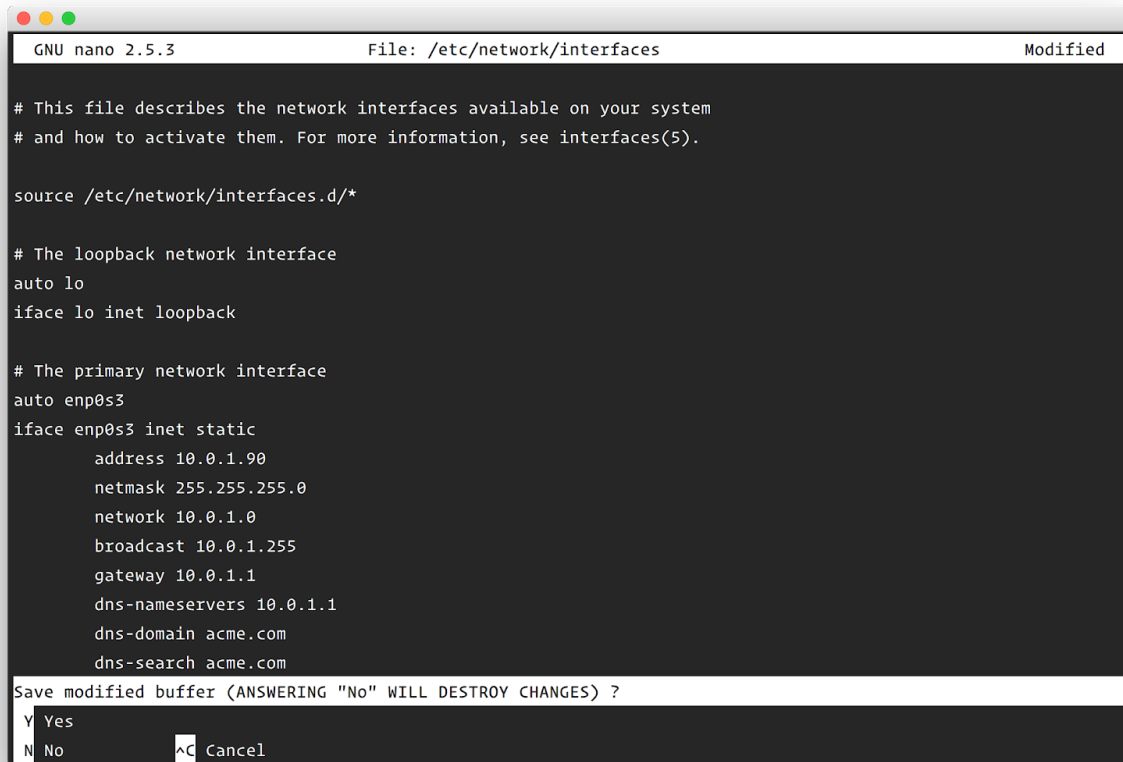
source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto enp0s3
iface enp0s3 inet static
    address 10.0.1.90
    netmask 255.255.255.0
    network 10.0.1.0
    broadcast 10.0.1.255
    gateway 10.0.1.1
    dns-nameservers 10.0.1.1
    dns-domain acme.com
    dns-search acme.com
```

The bottom of the window displays a series of keyboard shortcuts for nano, such as ^G Get Help, ^O Write Out, ^W Where Is, ^K Cut Text, ^J Justify, ^C Cur Pos, ^Y Prev Page, ^X Exit, ^R Read File, ^\ Replace, ^U Uncut Text, ^T To Spell, ^_ Go To Line, and ^V Next Page.

7. When your modifications are completed press **CTRL-X** to exit.
8. Press the **Y** key to save your changes.



```
GNU nano 2.5.3      File: /etc/network/interfaces      Modified

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

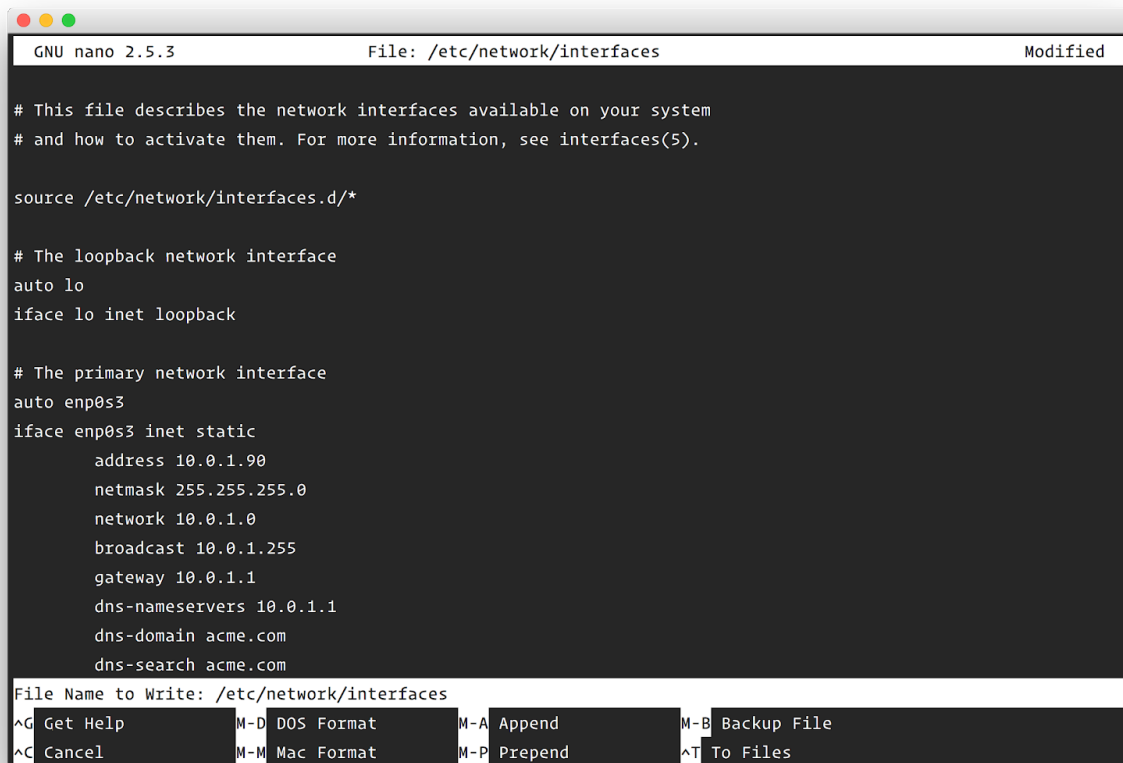
source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto enp0s3
iface enp0s3 inet static
    address 10.0.1.90
    netmask 255.255.255.0
    network 10.0.1.0
    broadcast 10.0.1.255
    gateway 10.0.1.1
    dns-nameservers 10.0.1.1
    dns-domain acme.com
    dns-search acme.com

Save modified buffer (ANSWERING "No" WILL DESTROY CHANGES) ?
Y Yes
N No      ^C Cancel
```

9. Press **ENTER** to save the file.



```
GNU nano 2.5.3      File: /etc/network/interfaces      Modified

# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

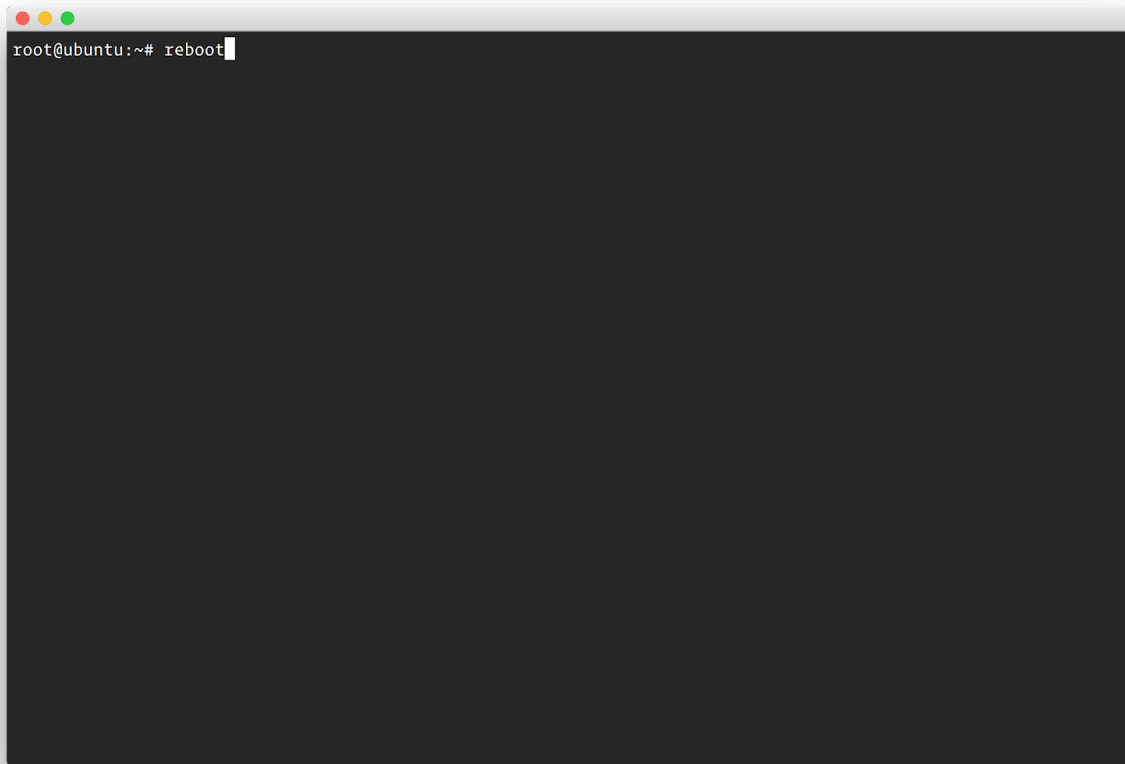
# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto enp0s3
iface enp0s3 inet static
    address 10.0.1.90
    netmask 255.255.255.0
    network 10.0.1.0
    broadcast 10.0.1.255
    gateway 10.0.1.1
    dns-nameservers 10.0.1.1
    dns-domain acme.com
    dns-search acme.com

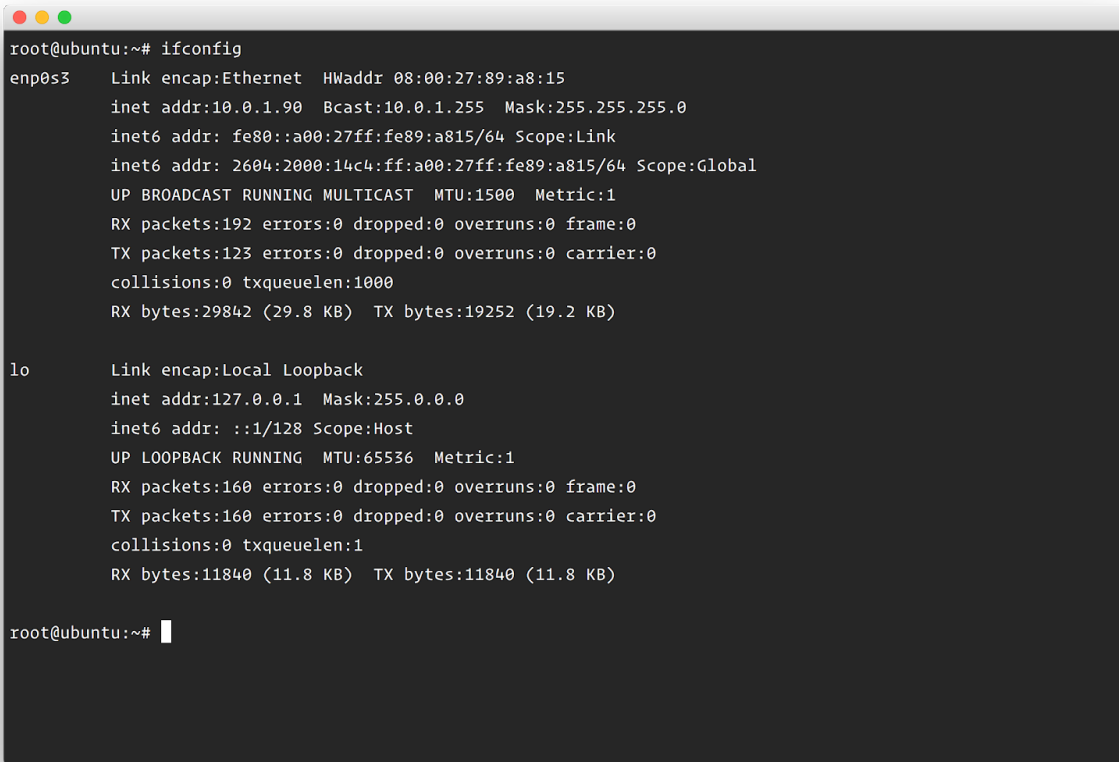
File Name to Write: /etc/network/interfaces
^G Get Help      M-D DOS Format  M-A Append      M-B Backup File
^C Cancel        M-M Mac Format  M-P Prepend     ^T To Files
```

10. Reboot the machine:

```
reboot
```



11. After the system restarts, confirm that it was configured successfully.
 - Lookup ip address of the machine by running,
`ifconfig`
 - Ping the configured IP address:
`ping [configured IP address]`
 - Access [https://\[configured IP address\]/cluster](https://[configured IP address]/cluster) in a web browser and check for the cluster setup screen.



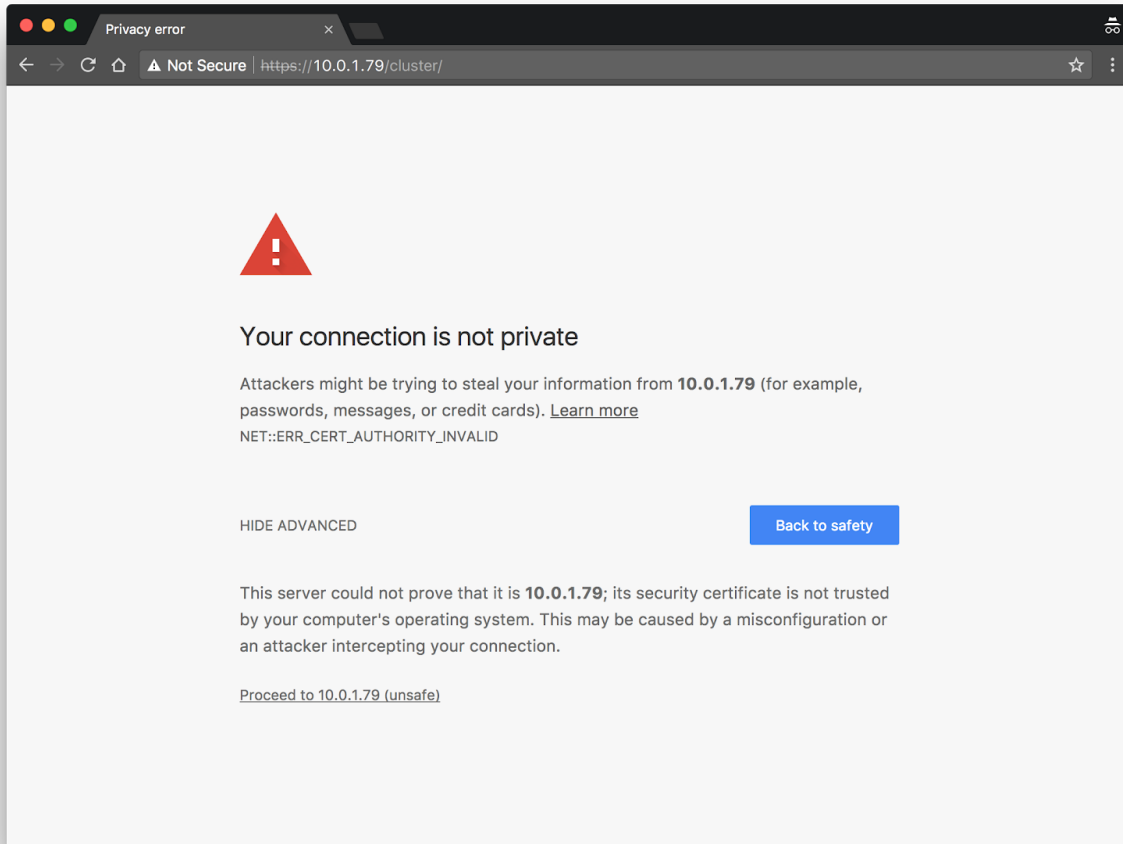
```
root@ubuntu:~# ifconfig
enp0s3  Link encap:Ethernet  HWaddr 08:00:27:89:a8:15
        inet addr:10.0.1.90  Bcast:10.0.1.255  Mask:255.255.255.0
        inet6 addr: fe80::a00:27ff:fe89:a815/64 Scope:Link
        inet6 addr: 2604:2000:14c4:ff:a00:27ff:fe89:a815/64 Scope:Global
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:192 errors:0 dropped:0 overruns:0 frame:0
        TX packets:123 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:29842 (29.8 KB)  TX bytes:19252 (19.2 KB)

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:65536  Metric:1
        RX packets:160 errors:0 dropped:0 overruns:0 frame:0
        TX packets:160 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1
        RX bytes:11840 (11.8 KB)  TX bytes:11840 (11.8 KB)

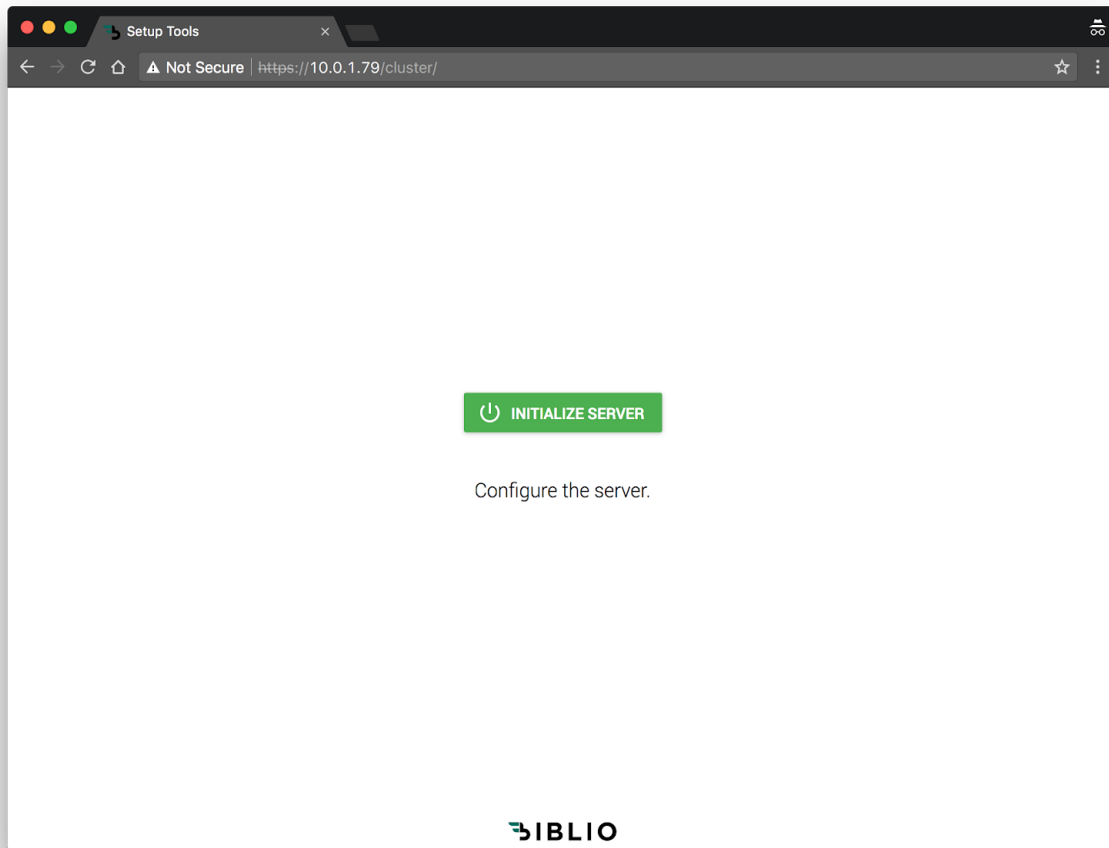
root@ubuntu:~#
```

Initialize Cluster

Visit the HTTPS **/cluster** path of the first node. If the node IP were **10.0.1.79**, the address would be **https://10.0.1.79/cluster**. Proceed through the SSL certificate warnings.



From the landing page, click on **Initialize Server**.



From **Initialize Server: Setup database**, enter the credentials of a previously set up MySQL or MSSQL database.

The screenshot shows a web browser window titled 'Initialize Server' with the URL 'https://10.0.1.79/cluster/initialize'. The page has a dark header bar with the title and a close button. Below the header, the main content area is white and titled 'Initialize Server'. A vertical progress bar on the left side of the page indicates the current step: '1 Setup Database'. The 'Setup Database' section contains several input fields: 'Select database type...' (a dropdown menu), 'Database Name' (a text input), 'Database Host Name' (a text input), 'Database Username' (a text input), 'Database Port Number' (a text input), and 'Database Password' (a text input). Below these fields are two buttons: 'SAVE DATABASE SETTINGS' and 'GO BACK'. At the bottom of the page, there are four steps listed in a vertical list: '1 Setup Database', '2 Create account', '3 Link with Video Control Center', and '4 Configure web server'. The first step is highlighted with a green circle, while the others are in grey circles.

Initialize Server

1 Setup Database

MySQL
MSSQL

Database Name

Database Host Name Database Username

Database Port Number Database Password

SAVE DATABASE SETTINGS GO BACK

2 Create account

3 Link with Video Control Center

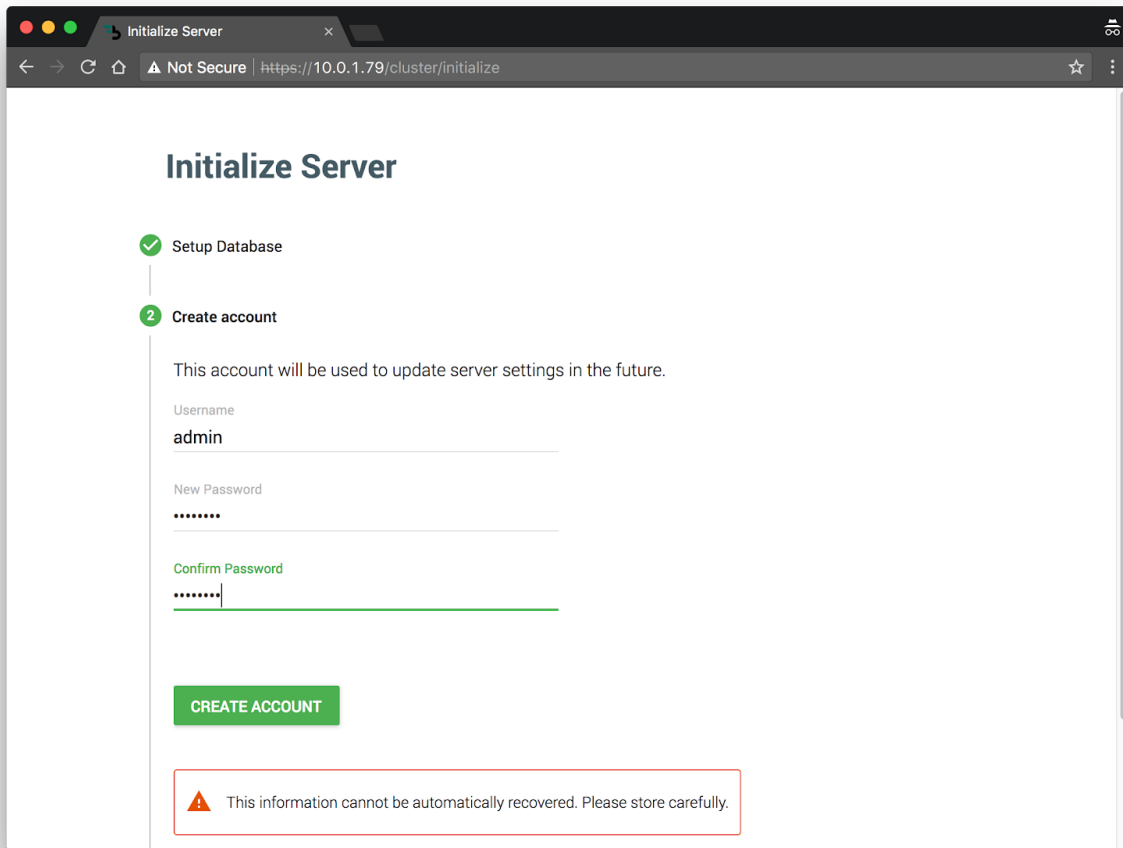
4 Configure web server

The screenshot shows a web browser window titled 'Initialize Server' with the URL 'https://10.0.1.79/cluster/initialize'. The page has a dark header bar with navigation icons. The main content area is white and features a large heading 'Initialize Server'. Below this is a vertical progress bar with four steps: 1. Setup Database (active), 2. Create account, 3. Link with Video Control Center, and 4. Configure web server. The 'Setup Database' step contains a form with two columns of input fields. The first column has 'Select database type...' (MySQL), 'Database Host Name' (10.0.1.65), and 'Database Port Number' (3306). The second column has 'Database Name' (biblio), 'Database Username' (root), and 'Database Password' (password). A green 'SAVE DATABASE SETTINGS' button and a 'GO BACK' link are at the bottom of the form.

Initialize Server

- 1 Setup Database**
 - Select database type...
MySQL
 - Database Name
biblio
 - Database Host Name
10.0.1.65
 - Database Username
root
 - Database Port Number
3306
 - Database Password
password
 - [SAVE DATABASE SETTINGS](#) [GO BACK](#)
- 2 Create account
- 3 Link with Video Control Center
- 4 Configure web server

From **Initialize Server: Create account**, enter a username and password to create an account for cluster administration. Please note this information cannot be automatically recovered.



The screenshot shows a web browser window titled "Initialize Server" with the URL "https://10.0.1.79/cluster/initialize". The page has a dark header bar with the title and a close button. Below the header, the main content area is white. At the top, there's a section titled "Initialize Server". Below this, there's a progress indicator with two steps: "1 Setup Database" (marked with a green checkmark) and "2 Create account" (marked with a green circle containing the number 2). Under the "Create account" step, there's a text prompt: "This account will be used to update server settings in the future." Below this, there are three input fields: "Username" with the value "admin", "New Password" with masked characters "*****", and "Confirm Password" with masked characters "*****". A green "CREATE ACCOUNT" button is positioned below the password fields. At the bottom, there's a red-bordered warning box containing a red triangle icon and the text: "This information cannot be automatically recovered. Please store carefully."

Initialize Server

✓ Setup Database

2 Create account

This account will be used to update server settings in the future.

Username
admin

New Password

Confirm Password

CREATE ACCOUNT

⚠ This information cannot be automatically recovered. Please store carefully.

From **Initialize Server: Link with Video Control Center**, enter the Qumu Viewer Portal network and domain information. Enter the credentials of an oAuth client previously set up in the Qumu Admin Portal, a principal ID with administrative access, and the credentials of a Dotsub account.

The screenshot shows a web browser window titled 'Initialize Server' with the URL `https://10.0.1.79/cluster/initialize`. The page is at step 3, 'Link with Video Control Center'. It contains the following fields and values:

Viewer Portal Protocol	oAuth Client ID
https	ExampleClientID

Viewer Portal Host Name	oAuth Client Secret
qumu.example.com	ExampleClientSecret

Viewer Portal Port	oAuth Redirect URL Pattern
443	https://biblio.example.com/admin/login

Viewer Portal Domain	oAuth Access Token Expiry
example	86400

Enter the principal ID of a service account used to search and update programs.

Principal ID
ExamplePrincipalID

Enter your Dotsub account credentials below. Credentials can be changed in the Biblio Domain settings.

Dotsub Username	Dotsub Password
username	password

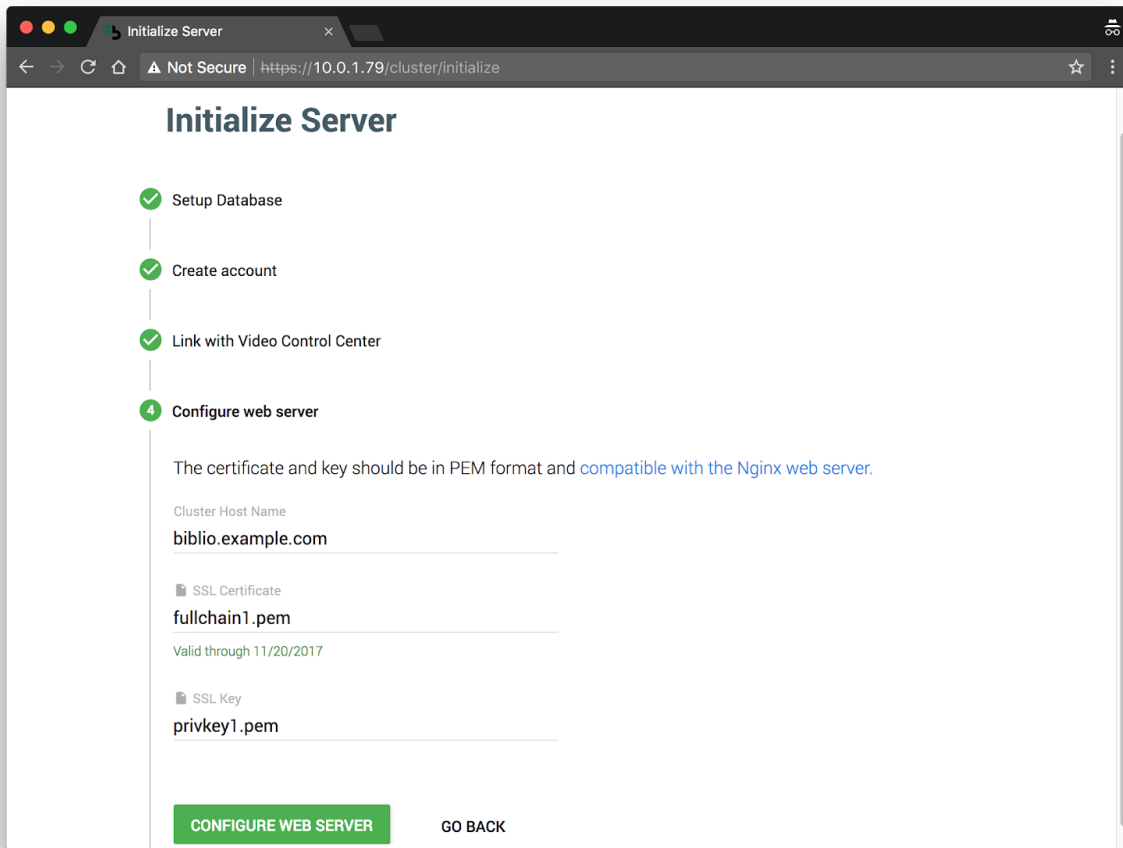
Dotsub Project ID
example-project-id

At the bottom, there are two buttons: 'LINK WITH VIDEO CONTROL CENTER' (highlighted in green) and 'GO BACK'.

How to retrieve the principal ID from the Video Control Center:

- 1) If the HTTPS path was **vcc.example.com** and the domain was **qumu**, the address would be:
`https://vcc.example.com/viewerportal/services/rest/qumu/users/currentUser`
- 2) The page should be displaying JSON data containing a field labeled **id**. Please enter the **id** into the **Principal ID** field in the setup screen.

From **Initialize Server: Configure web server**, enter the cluster hostname and associated SSL certificate and keys. These files should be [compatible with the Nginx web server](#).



The screenshot shows a web browser window titled "Initialize Server" with the URL `https://10.0.1.79/cluster/initialize`. The page has a dark header bar with the title and a close button. Below the header, the main content area is white. At the top, the title "Initialize Server" is displayed. A vertical progress bar on the left side of the main content area shows four steps: "Setup Database", "Create account", "Link with Video Control Center", and "4 Configure web server". The "Configure web server" step is currently active. Below the progress bar, there is a text instruction: "The certificate and key should be in PEM format and [compatible with the Nginx web server](#)." Below this instruction, there are three input fields. The first is labeled "Cluster Host Name" and contains the text "biblio.example.com". The second is labeled "SSL Certificate" and contains the text "fullchain1.pem". Below the second field, there is a small green text label "Valid through 11/20/2017". The third field is labeled "SSL Key" and contains the text "privkey1.pem". At the bottom of the form, there are two buttons: a green button labeled "CONFIGURE WEB SERVER" and a gray button labeled "GO BACK".

Initialize Server

- ✓ Setup Database
- ✓ Create account
- ✓ Link with Video Control Center
- 4** Configure web server

The certificate and key should be in PEM format and [compatible with the Nginx web server](#).

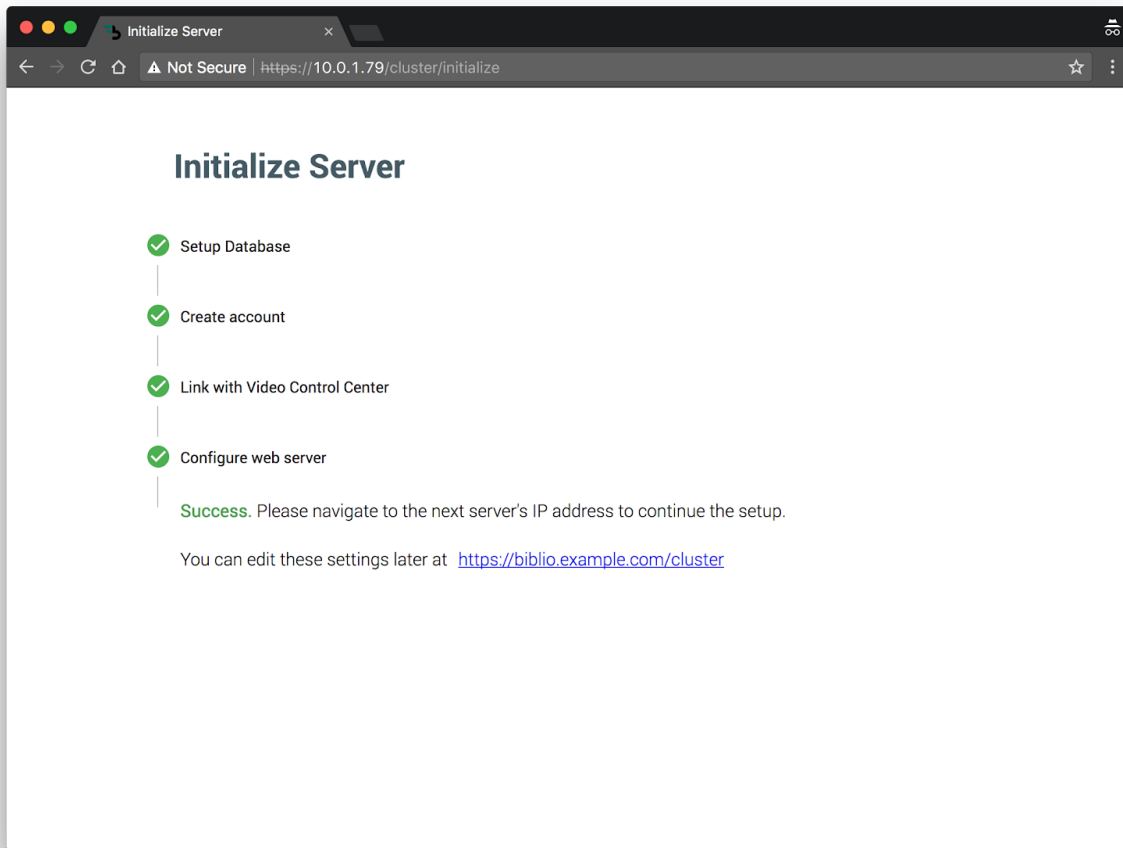
Cluster Host Name
biblio.example.com

SSL Certificate
fullchain1.pem
Valid through 11/20/2017

SSL Key
privkey1.pem

CONFIGURE WEB SERVER GO BACK

After completion, navigate to the next server's IP address to continue the setup. You can also click the link to navigate to server settings.



Verify DNS and SSL

Navigate to the HTTPS designated cluster hostname to verify setup. If the cluster hostname were **biblio.example.com**, the address would be **https://biblio.example.com**

