

# ***JAZZERAINIOUS***

**Like No Place On The Planet**  
Operation Manual

## Table of Contents

TABLE OF CONTENTS .....	2
<b>1. JAZZERAINIOUS SYSTEM DEFINED.....</b>	<b>3</b>
1.1. INTRODUCTION OR OVERVIEW (WHAT IS JAZZERAINIOUS?).....	3
1.2. HOW DOES JAZZERAINIOUS OPERATES?.....	3
1.3. HOW WAS JAZZERAINIOUS DEVELOPED? .....	4
1.4. THE HEART OF JAZZERAINIOUS .....	4
1.5. DEVELOPMENT OF JAZZERAINIOUS .....	4
1.6. CERTAIN ASSUMPTIONS .....	5
1.7. ADDING MUSIC TO JAZZERAINIOUS .....	7
1.2. WARNING ON EXPORTING AND IMPORTING THE PREJAZZERAINIOUS PLAYLIST.....	9
1.3. SETTING UP JAZZERAINIOUS FOR PRODUCTION OPERATIONS.....	10
1.4. ESTABLISHING AND CONFIGURING THE RADIO MONITOR.....	14
1.5. STARTING JAZZERAINIOUS FOR PRODUCT OPERATIONS (BROADCASTING) .....	15
1.6. MONITORING JAZZERAINIOUS WITH NICECAST .....	15
1.7. UPDATING THE PRODUCTION SERVER PLAYLISTS DURING BROADCASTING .....	16
<b>3. JAZZERAINIOUS WEBSITE.....</b>	<b>18</b>
3.1. ENTER JAZZERAINIOUS: .....	18
3.2. WHAT'S PLAYING NOW:.....	18
3.3. SUPPORTING ORAGNIZATIONS: .....	18
3.4. GET YOUR JAZZERAINIOUS T-SHIRT:.....	18
3.5. WANNA BE ON JAZZERAINIOUS?.....	18
3.6. ARTIST LISTING:.....	19
3.7. WORTH MENTIONING:.....	19
3.8. JAZZ FESTIVALS/CONCERTS: .....	19
3.9. IN MEMORY OF:.....	19
3.10.THANKS: .....	19
3.11.REVIEWS: .....	19
3.12.HOW JAZZERAINIOUS CAME TO BE: .....	19
3.13.COMMENTS TO JAZZERAINIOUS:.....	19
3.14.COMMENTS ON JAZZERAINIOUS.COM: .....	20
<b>4. JAZZERAINIOUS BACKGROUND SCRIPTING.....</b>	<b>21</b>
4.1. FILEMANGE.PL SCRIPT .....	21
4.2. JAZZPLAYLIST.PL SCRIPT.....	21
<b>5. FAILOVER AND RECOVERY FROM PRIMARY TO SECONDARY .....</b>	<b>22</b>
5.1. PREPARATIONS: .....	22
5.2. FAILOVER PROCESS: .....	23
5.6. RECOVERY .....	24
<b>6. FINAL COMMENTS AND SUMMARY .....</b>	<b>25</b>

# 1. JAZZERAINIOUS SYSTEM DEFINED

## 1.1. Introduction or Overview (What is Jazzerainious?)

Jazzerainious is simply an Internet Jazz radio station that streams out Jazz music on a 24x7 timeframe. It streams out many different flavors of jazz along with Jazz specials of certain artists who have made a major impact on jazz and its history. The radio station consists of the following elements of support;

- iMac desktop computer with a minimum of four GB of memory and 500GB hard drive
- Its own dedicated class A ip-address
- Itunes with a minimum of 5000 pieces of music in a playlist
- Nicecast broadcaster
- A website
- Separate (computer or internet radio) to act as a monitor with a separate class A IP-address
- A remote IMac (Dev) to act as a remote computer performing updates and modifications as required
- Some background scripting requirements to handle reporting, log information and communication between Jazzerainious's main operations and the website

## 1.2. How Does Jazzerainious Operates?

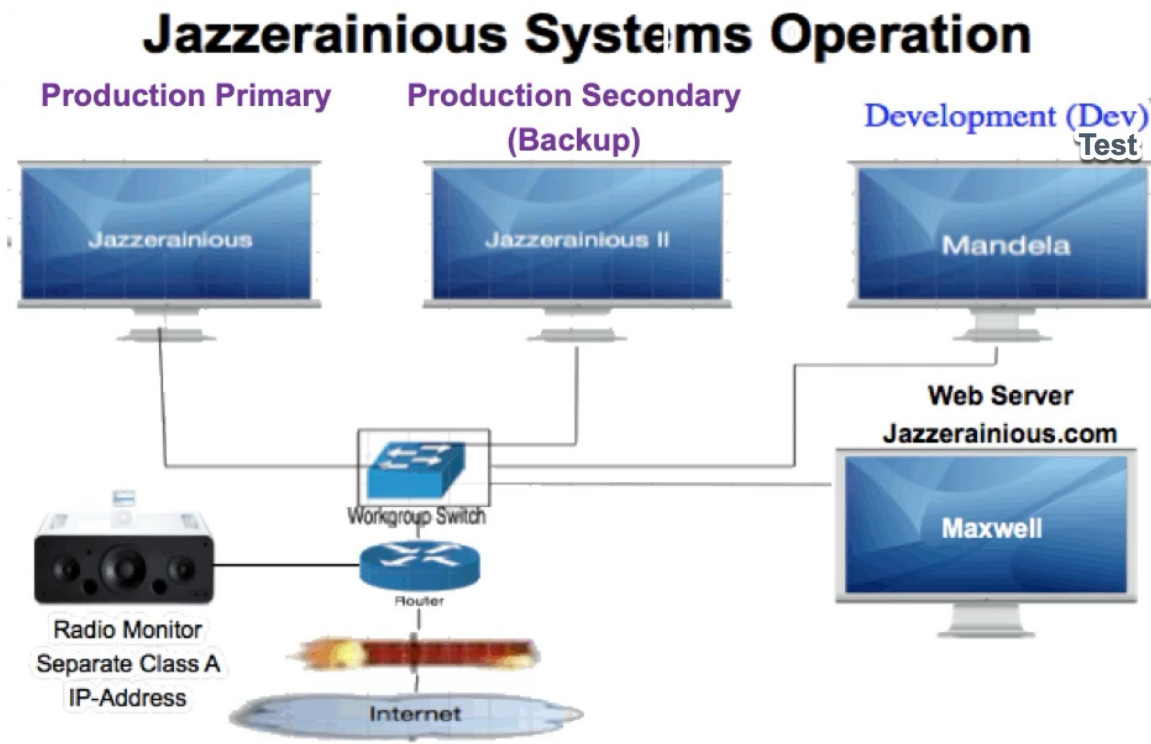
Jazzerainious works by broadcasting a developed Itunes playlist over the broadcaster in a stream over the Internet. The broadcaster has its own server where information that it picks up from the playlist is streamed out as well. The website ([www.jazzerainious.com](http://www.jazzerainious.com)) provides access to the station along with information of who is playing, historical information and contact data. Please note the diagram below;

Jazzerainious operates by running the playlist from iTunes on either Jazzerainious or Jazzerainious II. The broadcaster (Nicecast) sends it out (using 96.92.63.241 only) through the switch, router, and firewall onto the Internet, where listeners can hear it. Mandela is the only system that can remotely operate, configure, and update Jazzerainious and Jazzerainious II. The Web server provides information and a direct link to Jazzerainious depending on which server (Jazzerainious or Jazzerainious II) is running

at the time. The jazzerainious servers provide a backup to each other in case one goes down.

### 1.3. How was Jazzerainious Developed?

Jazzerainious is the brainchild of Bill Sommerville. Jazzerainious went into production status on 24 October 2013 and has been online since then. More information on its operations can be found at the website at [www.jazzerainious.com](http://www.jazzerainious.com)



### 1.4. The Heart of Jazzerainious

Jazzerainious would not exist without the vast amount of jazz music that has been collected throughout the years. With the advent of MP3 and other protocols, applications like iTunes could collect these musical files and organize them into a database or spreadsheet where further ideas and artistry could be expanded into what is now known as Jazzerainious.

### 1.5. Development of Jazzerainious

All development is done using Mandela. Development is performed for the following actions;

- Adding new music to the Prejazzerainious and Jazzerainious playlists

- Recording of music and sounds
- Rearranging music in the playlist
- Updating the Transferbin folder playlist for transferring to the production servers
- Remote updating into Jazzerainious (Production)
- Remote updating into JazzerainiousII (Production)
- Updating background scripts (Production)
- Updating of the Jazzerainious website (Jazzerainious.com)

## 1.6. Certain assumptions

It is assumed that anyone who reads this and is considering their own radio station using iTunes understands the operations of iTunes (adding to the library, creating, deleting, importing, and exporting playlists), ChronoSync, and Nicecast information. Support for Chronosync is available at <https://www.econtechologies.com>. Instructions for iTunes are available at the help portion of iTunes or at the Apple support website. Instructions for Nicecast are available at <https://www.rogueamoeba.com/nicecast>. Chronosync and Nicecast cost between \$50-\$60 bucks each, and the license can cover more than one server.

## 1.7. Update news

Unfortunately, Nicecast support is no longer available. This is what you see when you go to Google and type in Nicecast.

### [Nicecast has been retired; Migrate to Audio Hijack](#)



[Rogue Amoeba](#)

<https://www.rogueamoeba.com/nicecast>

Back in 2018, *Nicecast* was retired from development and removed from sale. We now recommend Audio Hijack for broadcasting from your Mac. Audio Hijack includes ...

[More results from rogueamoeba.com »](#)

### [Nicecast No More? 5 Mac Alternatives](#)



[Radio.co](https://radio.co)

<https://radio.co> > [Blog Index](#)

Aug 4, 2024 — *Nicecast was a widely used Mac radio broadcasting software with a really easy-to-use interface. Unfortunately, it has now been discontinued.*

---

### [The End of the Nicecast Era](#)

Summary. Today, our internet radio tool Nicecast is being ...

### [Broadcasting From the Mac ...](#)

We encourage you to read this blog post for details

[More results from rogueamoeba.com »](#)

Now, the alternative that has been recommended may or may not cost you in broadcasting and support. I was able to avoid all of this by keeping one of my Mac OS at the following level

**OS X El Capitan**  
Version 10.11.6

iMac (27-inch, Late 2013)  
Processor 3.5 GHz Intel Core i7  
Memory 32 GB 1600 MHz DDR3  
Startup Disk macintosh hd  
Graphics NVIDIA GeForce GTX 780M 4096 MB  
Serial Number D25LV01SF8JC

[System Report...](#) [Software Update...](#)

Enel, no updates.

This version let Nicecast start-up and has been running ever since. Remember, you need to stop the system from doing automatic updates if you go this route. This system will need to stay at this OS level with no updates. I understand there may be a security issue here. If your system is isolated to where there are no more connections ( than the Internet itself), Mine has been running since 2013 with no

security issues. This will let Nicecast keep running, and you will not have to pay for any broadcast/support fees.

## JAZZERAINIOUS MAIN OPERATIONS

### 1.7. Adding Music to Jazzerainious

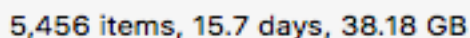
New music is acquired in different ways; resources consist of the following;

- Internet purchase
- Itunes purchase
- CD downloads
- LP downloads
- Self-developing/recording

Once the music has been selected and downloaded, it should to be added to Itunes in playlists. There are two playlists they must be added to as follows;

- Prejazzerainious
- Jazzerainious

Prejazzerainious is the list where the initial adding and the modification of the list are made. Once satisfied with the results, the changes are copied to the Jazzerainious playlist and another playlist called Transferbin (just the updated information). The Transferbin playlist is used to update the production Jazzerainious and the JazzerainiousII production servers. The Prejazzerainious and the Jazzerainious playlists on Mandela



5,456 items, 15.7 days, 38.18 GB

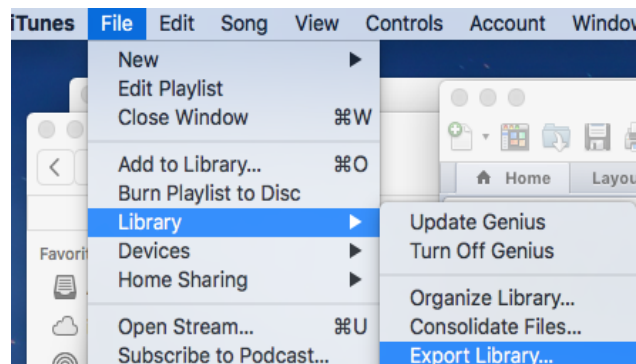
are called the **Master Playlists**. All other playlists on the production servers (Jazzerainious and JazzerainiousII) are compared and matched to the **Master Playlists**. Matching the production playlists

to the Master Playlists ensures that the number of items, days, and GB size (located at the bottom) matches. **No broadcasting is performed until the playlists on the production servers (Jazzerainious & JazzerainiousII) match the Master Playlists on Mandela.**

The functions of the playlists are as follows;

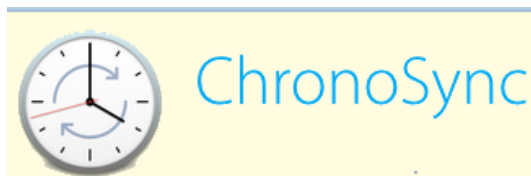
Servers	Playlists	Function	Remarks	Function
Mandela	Prejazzzerainious	Master Playlist	Initial Work is performed	Master Playlist
Mandela	Jazzzerainious	Master Playlist	After Prejazzzerainious is done, received just the updated music added to it	Backup to Master Playlist
Mandela	Transferbin	Updated Playlist	Receives just the updated music	Transfer list to the Prod servers
Jazzzerainious	Prejazzzerainious	Updated Playlist	After Transferbin is imported, received just the updated music added to it	Backup to Production
Jazzzerainious	Jazzzerainious	Updated Playlist	After Transferbin is imported, received just the updated music added to it	Production
Jazzzerainious	Transferbin	Updated Playlist	Has the updated music from the Master Playlist	Transfer list to the Prod servers
JazzzerainiousII	Prejazzzerainious	Updated Playlist	After Transferbin is imported, received just the updated music added to it	Backup to Production
JazzzerainiousII	Jazzzerainious	Updated Playlist	After Transferbin is imported, received just the updated music added to it	Production
JazzzerainiousII	Transferbin	Updated Playlist	Has the updated music from the Master Playlist	Transfer list to the Prod servers

Once the playlists on Mandela (Pre-jazzzerainious, Jazzzerainious, and Transferbin (containing just the updated information) have been exported (saved), you will need to sync the new music that is on Mandela to Jazzzerainious and JazzzerainiousII. There are various ways to accomplish this. Currently in use is Chrono-Sync. It has the ability to sync the files you wish to sync (music/music) and not the other stuff (movies, TV shows, audio-



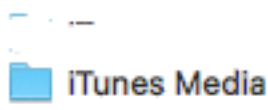
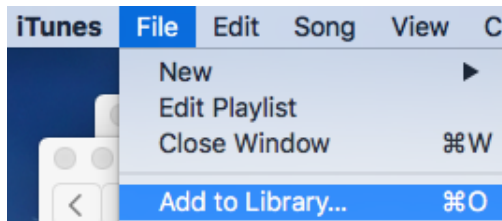


books, etc.).

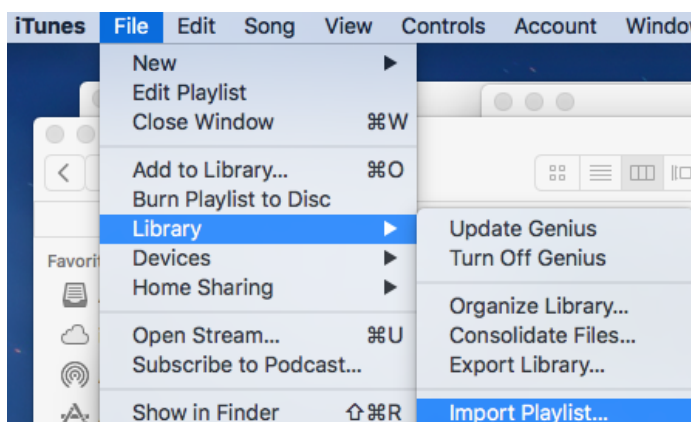


most cases, selecting the music folders will work). This will put the new music you sync from Mandela into the iTunes music list. Next copy the Transferbin playlist file (Mostly in the playlist folder on Mandela) to the Jazzerainious and JazzerainiousII server in the same folder location.

When the sync process is complete, you will need to go into iTunes on the productions servers (Jazzerainious and JazzerainiousII) and select Add to Library. Select the path where the new music is located (in



The Transferbin playlist is great for updating the shortlists (100 or less) to add to the Prejazzzerainious and Jazzerainious playlists on the production servers. Once you have saved the files, go into iTunes and select File >>>>>Library>>>Import Playlist



Locate and select the Transferbin file. If there are no errors, it will bring in the new selections of music you plan to add to Prejazzzerainious and Jazzerainious playlists on the production servers. Then, it is just a matter of using iTunes to copy the music from the Transferbin playlist to the Prejazzzerainious and Jazzerainious playlists. Where you put the music in the playlist is the owner's choice.

## 1.2. Warning on exporting and importing the Prejazzzerainious playlist

The Prejazzzerainious and Jazzerainious playlists are huge. (Over 5000 pieces of material). Trying to copy the whole playlist will invite a host of errors of missing pieces of music. If you are working with a reimage or new servers, you should copy your music to the new servers, perform your discovery (of adding music to the library in iTunes), perform your importing of the Prejazzzerainious playlist, then perform your adding or corrections if you receive any missing errors. After all your music has been discovered for the first time in iTunes in the Prejazzzerainious playlist on the new server, any additions to the playlist should be made by using the Transferbin playlist in smaller increments (100

pieces of music or less). To update the Jazzerainious playlist from the Prejazzzerainious playlist, first make sure the Jazzerainious playlist is empty, and then copy all of the pieces from the Prejazzzerainious playlist to the Jazzerainious playlist. After the Prejazzzerainious and Jazzerainious playlists are the way you want them, be sure to export the playlist to a playlist folder. This will be a safeguard in case of any damaged music or missing files. When the server is in a production state (playing music live over the Internet), always use the Jazzerainious playlist.

### 1.3. Setting up Jazzerainious for Production Operations

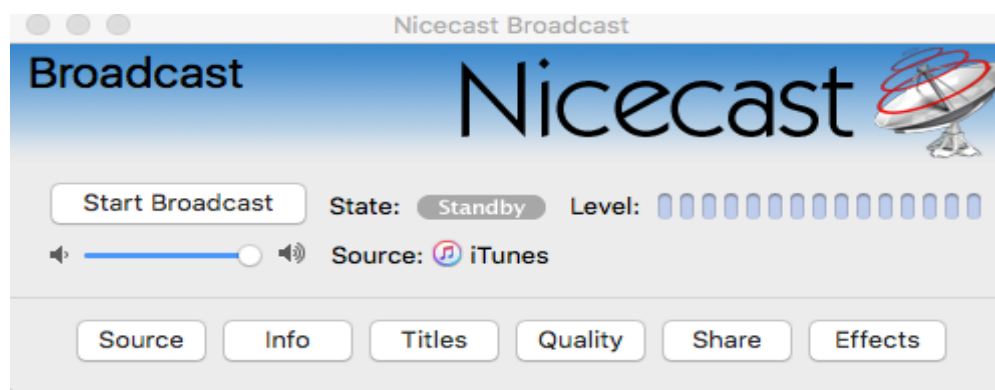
Once the playlist matches the master playlist on Mandela (See Sec 1.5 Adding Music to Jazzerainious), it is ready to go into production operations (Broadcast music over the Internet). Only the production server can be in a production state at any one time. Whichever server you choose to start production operations (Jazzerainious or Jazzerainious II), it will be the primary, and the other will be the backup and act as the secondary in case of any issues that occur on the primary that may cause it to go down during production operations.

The following applications must be on the production servers for proper broadcasting production operations.

- iTunes (with the Prejazzzerainious and Jazzerainious [matching the Prejazzzerainious] playlists)
- Nicecast (with broadcast server)
- Murus Security Firewall Application

#### NICECAST


Nicecast handles the broadcasting over the Internet. It is easy to use and does not require any additional tools. You have the ability to be on or off the air with a simple click of the mouse.





There are setups to do for ip address configurations and music informational monitoring. Instructions are provided that give the user many choices to choose from. It is recommended that the configurations be used for Jazzerainious;

Source:

Source ————— Nicecast will broadcast audio from the item selected below.

Application 

 iTunes


Advanced... Select 

Info:

Information ————— This info will be sent out to listeners with your stream.

Name:

URL


Genre:   AIM:


Description:

Titles:

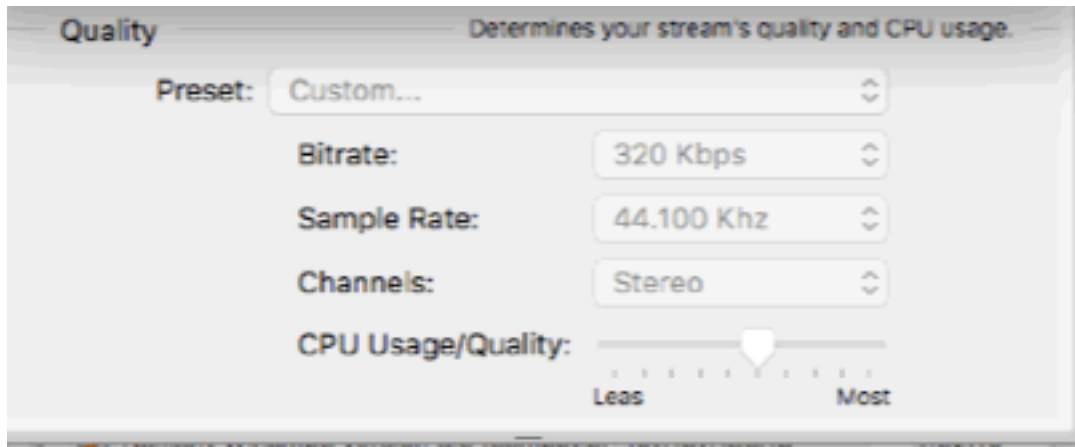
Track Titles ————— Track Titles that are displayed in the listener's player

Show: ☒ Artist ☐ Album ☒ Title

Source: N/A 

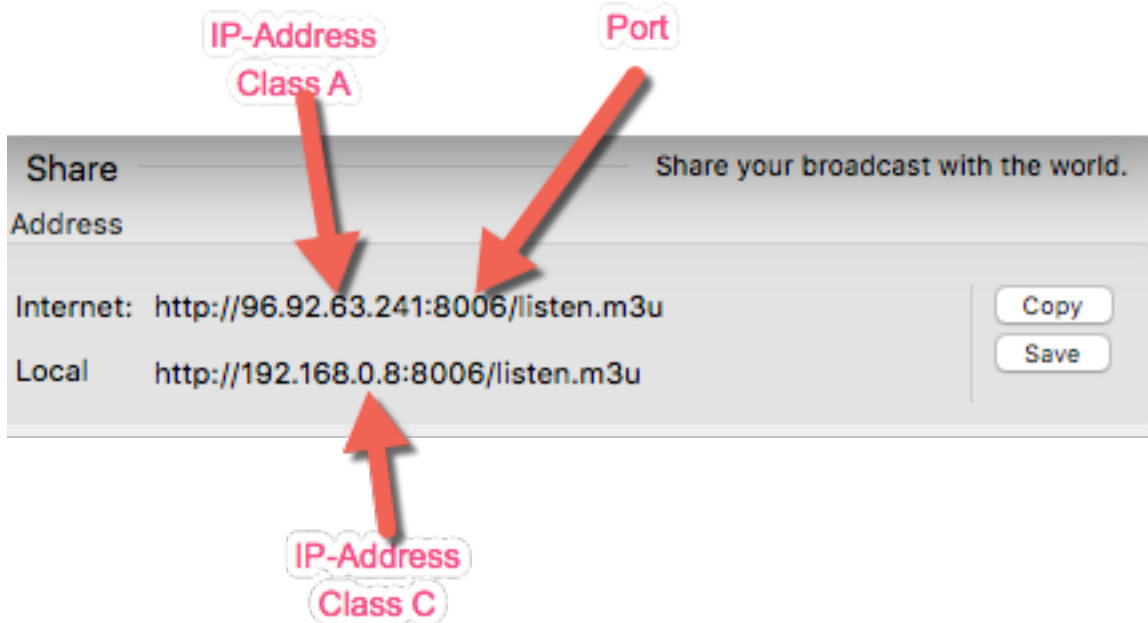
Currently: N/A 

Quality:




Share:

Note: Ip-address can be what you have available. Port can be the same as what is seen here or what the user feels is more appropriate.



Server

Nicecast

Built-In Server

Listeners

Console

Status: Active

Stop

Network

Address:

☐ Automatic

96.92.63.241

96.92.63.241

▼

Port: 8006

8006

Access Control

☐ Require Password

Name: joe

Password:

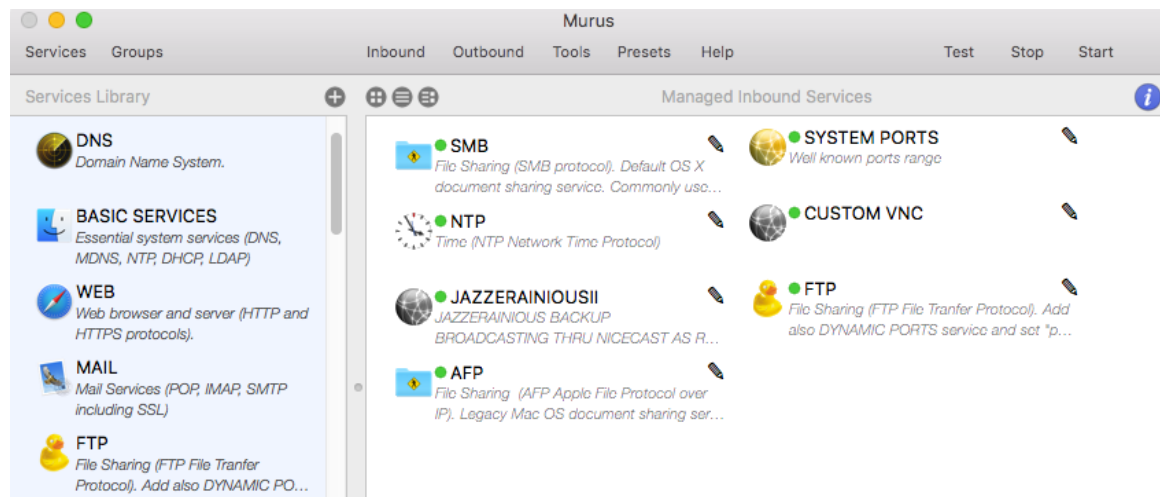
Maximum Listeners:

80

Effects:  
No Effects are required.

## MURUS

Murus is a security firewall that protects the Jazzerainious production servers from hackers since the Jazzerainious production servers use a class A IP address for the Internet, as seen above in the Share section. The following is the recommended configurations for the Murus Firewall for inbound network connections;

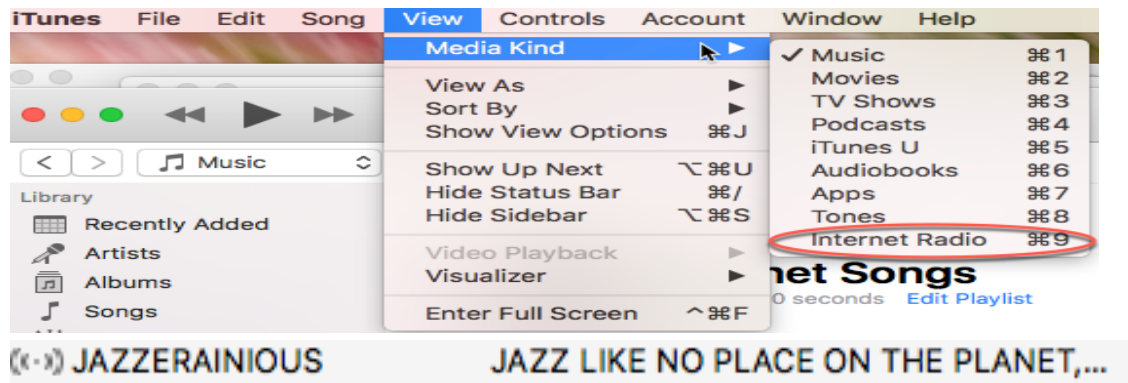


Once the Murus Firewall is configured, you will need to test it using the application itself (upper left-hand corner) and actually with Jazzerainious running and using the monitor to ensure the sound is getting out on the Internet. Tweaking of the services may be required. Instructions come with the Murus Firewall.

### 1.4. Establishing and Configuring the Radio Monitor

The radio monitor can be either an Internet radio or a computer that is linked to the Jazzerainious radio station using the URL noted in section 1.7 in the Share section figure. If using a computer, there are several ways to connect to the Jazzerainious radio station as follows;

- Going to the Jazzerainious website and clicking on the Enter Jazzerainious link
- Starting up iTunes, select View, then Media Kind, then and Internet Radio. Select Jazz, then scroll down the Jazz listing until you come along to Jazzerainious.



- Use Tune-in and using the search engine to find Jazzerainious
- Use Listen-Radio-Net and using the search engine to find Jazzerainious

### 1.5. Starting Jazzerainious for Product Operations (Broadcasting)

Once the configuration/testing is complete and the production server is selected, do the following:

1. Ensure the Murus firewall is enabled
2. Use Itunes, slide the volume bar all the way to the right, and start the Jazzerainious playlist
3. Start up Nicecast, slide the volume all the way to the right, and click on the start broadcast button
4. Check the radio monitor (Internet Radio or a computer linked to Jazzerainious) to see that you can hear the music.
5. If you can hear Jazzerainious, you are in production operations and are virtually broadcasting Jazzerainious over the Internet globally.

### 1.6. Monitoring Jazzerainious with Nicecast

Nicecast not only provides the broadcast ability of Jazzerainious over the Internet but also provides a wealth of information as it broadcasts as follows;

- What systems connect to Jazzerainious by ip-address
- The total number of connections
- Average listing times
- Average GB being sent out for listening



ID	User Agent	Address	Connected
1	iTunes/12.1.2 (Macintosh; OS X 10.10.3) AppleWebKit	96.92.63.242	235:31:11
2	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	64.45.197.2	88:45:28
3	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	198.234.129.210	65:19:13
4	NSPlayer/9.0.0.4509 WMFSDK/9.0	170.173.16.10	57:37:14
5	NSPlayer/9.0.0.4509 WMFSDK/9.0	202.70.228.27	28:06:36
6	AppleCoreMedia/1.0.0.12F69 (Apple TV; U; CPU OS	125.30.10.166	26:33:06
7	iTunes/10.6.3 (Macintosh; Intel Mac OS X 10.5.8) App	74.15.54.89	19:48:02
8	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	174.21.207.168	6:30:34
9	NSPlayer/11.0.5721.5275 WMFSDK/11.0	58.189.193.117	6:12:59
10	AppleCoreMedia/1.0.0.11D258 (Apple TV; U; CPU OS	45.49.236.77	5:01:30
11	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	210.171.248.200	4:29:59
12	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	133.218.12.65	4:26:36
13	NSPlayer/11.0.5721.5275 WMFSDK/11.0	180.57.62.243	4:06:08
14	NSPlayer/9.0.0.4509 WMFSDK/9.0	153.203.187.102	3:48:25
15	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	124.100.122.127	1:40:51
16	NSPlayer/11.0.5721.5275 WMFSDK/11.0	126.8.197.52	1:13:24
17	AppleCoreMedia/1.0.0.11D258 (Apple TV; U; CPU OS	86.174.78.92	1:08:43
18	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	114.187.67.81	1:04:03
19	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	219.164.50.151	37:08
20	NSPlayer/12.00.7601.18741 WMFSDK/12.00.7601.18	121.113.68.71	21:05

Total Listeners: 5872, Average Listening Time: 40:24  
Transfer Total: 233.2 GB, Transfer Average: 39.7 MB

By displaying the IP address of what systems are listening, you have the ability to know what media application they are using to connect to Jazzerainious. Using <http://www.ipfingerprints.com/>, you have ability to get a fair idea of where the listener (at least country & city) is located. This can provide an enormous amount of information on the following;

- Where most of your listeners are (country/city)
- By IP address, your most frequent listeners
- How long they listen tells the popularity of Jazzerainious (playlist organization)
- The timing of when the Jazzerainious listeners connect and listen

This information, in time, will provide insight into the operations of Jazzerainious interactions with the listeners, thus providing adjustment opportunities in collaboration of the comments email link on Jazzerainious.com if required.

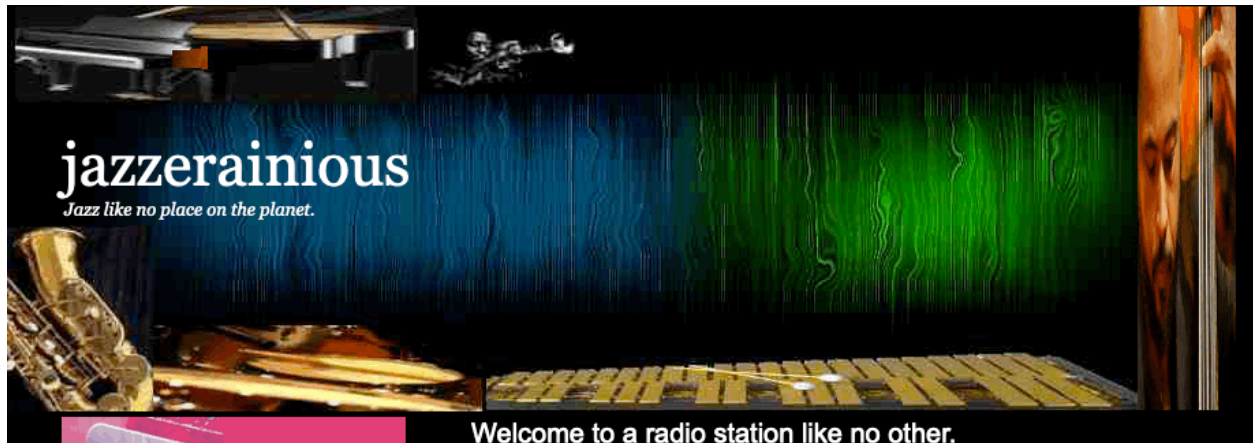
### 1.7. Updating the production server playlists during broadcasting

This can be done and provides the listener with an interruption of service during the process. **However extreme caution should be observed while in this updating phase during broadcasting. Clicks required to update production server playlists according to the instructions (sec 2.1) must be performed slower (especially remotely). Any sudden moves or clicks in the wrong area can affect the music being played if not bring down Jazzerainious altogether.**





### 3. JAZZERAINIOUS WEBSITE



The Jazzerrainious website consists of much of the information as a white paper style about Jazzerrainious. Jazzerrainious.com consists of several links that cover the following information;

#### 3.1. [ENTER JAZZERAINIOUS:](#)

This provides immediate access to the Jazzerrainious radio station.

#### 3.2. [WHAT'S PLAYING NOW:](#)

Provides information of what is currently playing on Jazzerrainious for the users listening pleasure.

#### 3.3. [SUPPORTING ORAGNIZATIONS:](#)

Consist of organizations that list Jazzerrainious within their systems for public listening support. These organizations provide additional access support to Jazzerrainious for listeners using an iPad, iPod, other computers, Internet radios and cell phone devices.

#### 3.4. [GET YOUR JAZZERAINIOUS T-SHIRT:](#)

This link provides viewing and ordering of the Jazzerrainious T-shirts.

#### 3.5. [WANNA BE ON JAZZERAINIOUS?](#)

Provides information to listeners on how to submit their voices as DJ's on Jazzerrainious.

### **3.6. [ARTIST LISTING:](#)**

Displays a listing of most of the artists that are on Jazzerainious.

### **3.7. [WORTH MENTIONING:](#)**

Provides information on certain artist whom wishes for Jazzerainious to display information about them.

### **3.8. [JAZZ FESTIVALS/CONCERTS:](#)**

Provides link listing to other sites on Jazz festivals and concerts covering the mid-west and eastern US and parts of Canada and Europe.

### **3.9. [IN MEMORY OF:](#)**

Displays a listing of some of the past greats in Jazz. Papers on each one provide a historical and personal accounting of their artistry.

### **3.10. [THANKS:](#)**

A personal thanks to listeners of certain cities throughout the world for listening to Jazzerainious.

### **3.11. [REVIEWS:](#)**

Displays comments from those who have listened to Jazzerainious.

### **3.12. [HOW JAZZERAINIOUS CAME TO BE:](#)**

A Historical paper on the thoughts and ideas that lead to the creation of Jazzerainious. (This document is included)

### **3.13. [COMMENTS TO JAZZERAINIOUS:](#)**

Opens an email to send to [comments@jazzerainious.com](mailto:comments@jazzerainious.com) reference the operations of the Jazzerainious radio station.

### **3.14. Comments on Jazzerrainious.com:**

Jazzerrainious.com consists of many areas tapping Jazz. It also receives information from Jazzerrainious itself, informing anyone who clicks the WHAT'S ON JAZZERAINIOUS (Sec: 3.2) link. There are scripts that run in the background, providing this information for the website. The next section will provide more information on this and other background scripts.

## **4. JAZZERAINIOUS BACKGROUND SCRIPTING**

Several background scripts provide additional information of Jazzerainious. This information is provided mostly from the Nicecast broadcast application logs. These logs cover key areas during operations. They are as follows;

- Music has played
- Number of IP address that have connected to Jazzerainious
  - Length of connected
  - Number of connections during a certain time
  - Average times the total number of listeners were connected
- Length of time of broadcasting

These and other items of information are collected by the background scripts and processed into readable files, and stored for reference. This process consists of the following;

### **4.1. Filemange.pl script**

This Perl script is the heart of the background work for Jazzerainious. It gathers the log information from Nicecast and processes it into understandable text, then sends it to the mail server to be sent and analyzed when required. This information is important as it provides the traffic load information of listeners where adjustments can be made on the bandwidth for Jazzerainious if required.

### **4.2. Jazzplaylist.pl script**

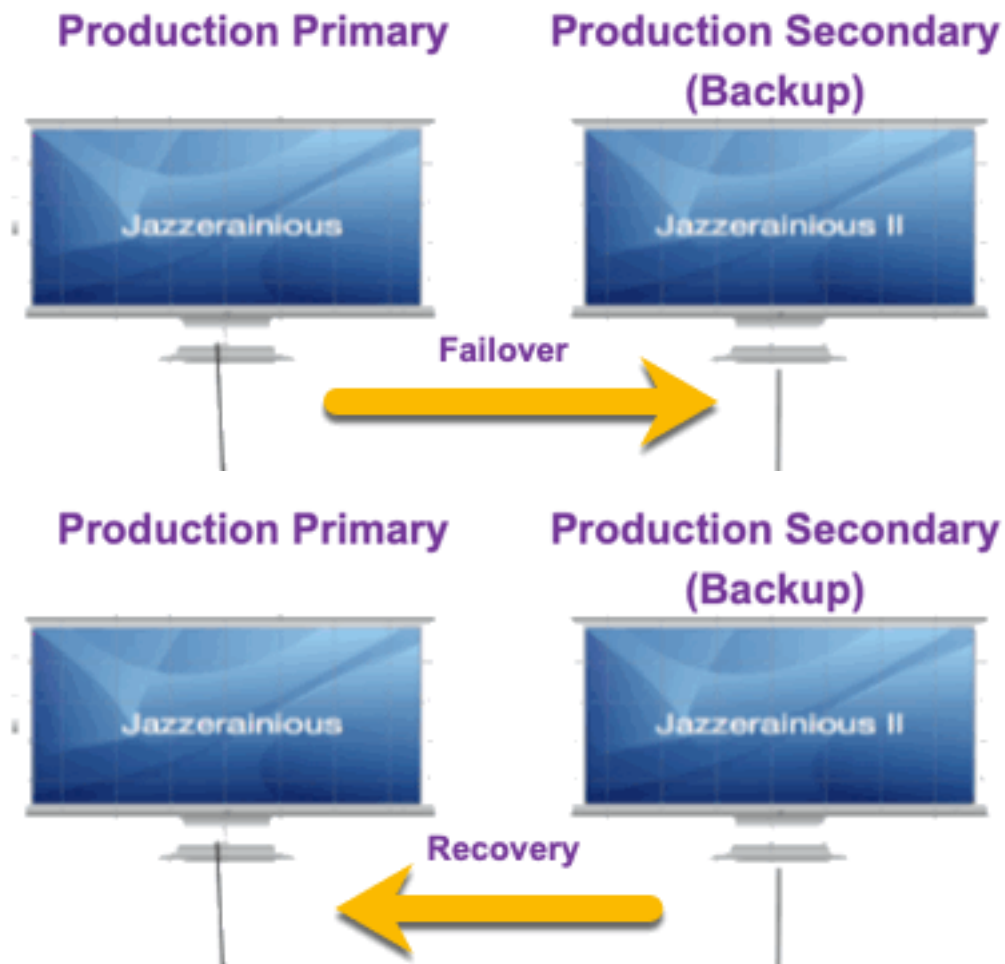
These Perl scripts take the log file that Nicecast has on the music that has played, process it, and send the current music playing to the web server. There, Jazzerainious.com displays the current music playing on Jazzerainious by clicking on the WHAT'S PLAYING NOW link on the main web page.

## 5. FAILOVER AND RECOVERY FROM PRIMARY TO SECONDARY

### 5.1. Preparations:

5.1.1. Before attempting any failover, you will need to acquire configuration information. In order to keep your listeners tuned in your station, you need to keep your configuration information (address, quality, share, path, titles, playlist, and customer-supported information to match or be as close as possible.

Diagram:



Only one system can broadcast, so it is important that the network information (IP address, subnet mask, and DNS) on the primary be moved to the secondary and the primary be given another set of network information.

## 5.2. Failover Process:

**NETGEAR**  
WNDR3400v3

Logout

Firmware Version  
V1.0.1.24\_1.0.67

English

**BASIC** **ADVANCED** Jazzerrainious (Primary) Network Info In Router

Home Internet Wireless Attached Devices Parental Controls ReadySHARE Guest Network

**Internet Setup**

Apply Cancel Test

Does your Internet connection require a login?  
☐ Yes  
☒ No

Account Name (If Required) WNDR3400v3

Domain Name (If Required)

Internet IP Address  
☐ Get Dynamically from ISP  
☒ Use Static IP Address

IP Address 96 . 92 . 63 . 241

IP Subnet Mask 255 . 255 . 255 . 240

Gateway IP Address 96 . 92 . 63 . 254

Domain Name Server (DNS) Address  
☐ Get Automatically from ISP  
☒ Use These DNS Servers

Primary DNS 75 . 75 . 75 . 75

Secondary DNS 75 . 75 . 76 . 76

Router MAC Address  
☒ Use Default Address  
☐ Use Computer MAC Address  
☐ Use This MAC Address

Need to change Network Info in Router  
 Login:admin  
 PW:password

3C:37:86:CD:DC:33

**FAILOVER**

**JazzerrainiousII (Secondary)**

Status: **Connected**  
 Ethernet is currently active and has the IP address 96.92.63.241.

Configure IPv4: Manually

IP Address: 96.92.63.241

Subnet Mask: 255.255.255.240

Router: 96.92.63.254

DNS Server: 75.75.75.75, 75.75.76.76

On the server itself in Network

**NETGEAR**  
WNDR3400v3

Logout

Firmware Version  
V1.0.1.24\_1.0.67

English

**BASIC** **ADVANCED** Jazzerrainious (Primary) Network Info In Router

Home Internet Wireless Attached Devices Parental Controls ReadySHARE Guest Network

**Internet Setup**

Apply Cancel Test

Does your Internet connection require a login?  
☐ Yes  
☒ No

Account Name (If Required) WNDR3400v3

Domain Name (If Required)

Internet IP Address  
☐ Get Dynamically from ISP  
☒ Use Static IP Address

IP Address 96 . 92 . 63 . 241

IP Subnet Mask 255 . 255 . 255 . 240

Gateway IP Address 96 . 92 . 63 . 254

Domain Name Server (DNS) Address  
☐ Get Automatically from ISP  
☒ Use These DNS Servers

Primary DNS 75 . 75 . 75 . 75

Secondary DNS 75 . 75 . 76 . 76

Router MAC Address  
☒ Use Default Address  
☐ Use Computer MAC Address  
☐ Use This MAC Address

Need to change Network Info in Router  
 Login:admin  
 PW:password

3C:37:86:CD:DC:33

**RECOVERY**

**JazzerrainiousII (Secondary)**

Status: **Connected**  
 Ethernet is currently active and has the IP address 96.92.63.241.

Configure IPv4: Manually

IP Address: 96.92.63.241

Subnet Mask: 255.255.255.240

Router: 96.92.63.254

DNS Server: 75.75.75.75, 75.75.76.76

On the server itself in Network

- 5.3. Note: **The above figures (Failover & Recovery)** Jazzerrainious (Primary) is on two different networks (192.168.0.0 & 173.168.0.0). Since 192.168.0.0 is the main network for the class A network (IP:96.92.63.245/for work), it broadcast on the 173.168.0.0 network under the class A IP:96.92.63.241. This network has a router and the network change will consist of modifying the network configurations within that router.
- 5.4. Step1- Manually insert the same network information that is in the Jazzerrainious primary at the

network router in the JazzerainiousII secondary network configuration window. Even though the apply button will light up as enabled, **(DO NOT CLICK ON THE APPLY BUTTON)**

5.5. Step 2- In Jazzerainious primary place another network configuration information as noted below;

IPv4: Manually  
IP Address: 96.92.63.247  
Subnet Mask: 255.255.255.240  
Router: 96.92.63.254  
DNS: 75.75.75.75, 75.75.76.76

Step 3- Once the network information has been entered, Click the apply button on Jazzerainious primary server only. Once Jazzerainious Primary has accepted the new IP address and network configuration, click on the apply button of JazzerainiousII secondary network configuration button.

**Note: Jazzerainious (primary) is attached to a router; therefore, the network must be changed within the router and not the server itself.**

**At this stage, failover is complete and the secondary server should be able to broadcast.**

## 5.6. Recovery

5.7. Recovery is performing the opposite of failover. The difference in this case is applying the network change on primary last, whereas in failover, it was last.

5.7.1. Remember: The only network address that can be used for broadcasting is the following;

5.7.2. \_\_\_\_\_

5.7.3. IP Address: 96.92.63.241  
5.7.4. Subnet Mask: 255.255.255.240  
5.7.5. DNS: 75.75.75.75  
5.7.6. DNS2 75.75.76.76



## **6. FINAL COMMENTS AND SUMMARY**

If you are interested in starting your own radio station, these sets of instructions will definitely get you on your way. As the owner, you control how it will be (commercials, no commercials, in-between, type of music, and playlist length). With this in mind, be prepared to adjust as you see fit. I am not trying to corner any market on anything. That is why these instructions are on-line to share with all. As with many of you, as I became older after having fun in life, I began to have legacy thoughts. Jazzerainious is mine, and no matter if you use these instructions to create your own system or come up with something entirely new, I only ask that you recognize your source and pass it on.

Thank You  
Bill Sommerville