



Your own grid

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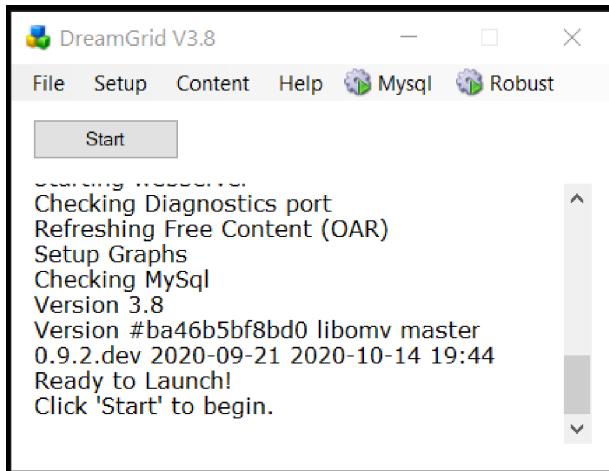
## بدء التشغيل - بدء تشغيل النظام في المرة الأولى

. في فارغ وتشغيله DreamGrid عن طريق حفظ DreamGridInstaller.exe يمكنك تثبيت.

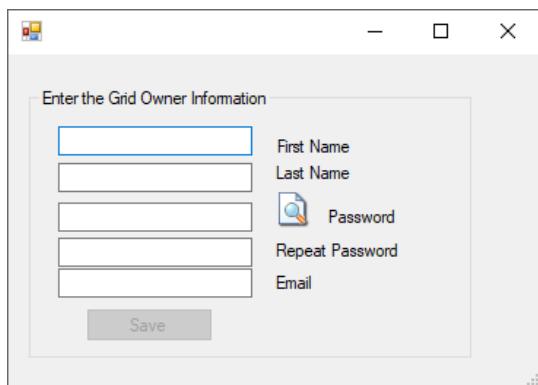
عن طريق فك ضغط الملف المضغوط في مجلد جديد فارغ DreamGrid أو يمكنك تثبيت.

قد تحصل على تحذير منيّق. يتم توقيع جميع الكود الثنائي الخاص بي رقميًا ويتم التحقق منه بشكل مشفر لحمايتك وللتاكيد لك أن الكود "Start.exe". ثم انقر فوق الذي تحصل عليه هو ما تم تأليفه في الأصل. إنه خالي من الفيروسات ولا يحتوي على إعلانات. يجب أن يقول "الناشر المعتمد".

: انقر فوق [ابدا] في الجزء العلوي الأيسر من القائمة



سيظهر لك هذا المربع للمطالبة بملكية الشبكة.



استخدم كلمة مرور طويلة وفريدة من نوعها لأن هذه هي الصورة الرمزية التي يمتلك الشبكة.

آخر. ستكون هذه منطقتك الأولى. المنطقة تسمى "مرحباً". يمكنك تغيير هذا الاسم لاحقاً. سيطلب منك النظام اسمًا للملكية. يمكنك فقط الضغط DOS سيظهر مربع أو اكتب اسمًا جديداً، "My Estate" على إدخال لتسميتها.

```

20:56:23 - [HG INVENTORY CONNECTOR]: HG inventory broker enabled with inner connector of type OpenSim.Region.CoreModules^.ServiceConnectorsOut.Inventory.RemoteInventoryServicesConnector
20:56:23 - [LAND CONNECTOR]: Remote Land connector enabled
20:56:23 - [MAP IMAGE SERVICE MODULE]: enabled with no refresh and service object OpenSim.Services.Connectors.dll:MapImageServicesConnector
20:56:23 - [NEIGHBOUR CONNECTOR]: Neighbour out connector enabled
20:56:23 - [REMOTE PRESENCE CONNECTOR]: Remote presence enabled
20:56:23 - [REMOTE SIMULATION CONNECTOR]: Remote simulation enabled.
20:56:23 - [USER CONNECTOR]: Remote users enabled
20:56:23 - [Serialiser]: Enabled, using save dir "exports"
20:56:23 - [Groups.Messaging]: GroupsMessagingModule enabled with MessageOnlineOnly = True, DebugEnabled = False
20:56:23 - [Groups]: Initializing Groups Module V2
20:56:23 - [Groups]: Initializing Groups HG Service Connector with LocalService remote
20:56:23 - [JPEGConverter]: Initialise
20:56:23 - [MI IMAGESERVICE]: Initializing...
20:56:23 - [TOS MODULE]: Using config file at .\DivatOS.ini
20:56:23 - [TOS MODULE]: Not Enabled
20:56:23 - [RADMIN]: Creating default avatar entries
20:56:23 - [RADMIN]: No default avatar information available
20:56:23 - [RADMIN]: Default avatars not loaded
20:56:23 - [LOAD REGIONS PLUGIN]: Loading region configurations from filesystem
20:56:23 - [REGION LOADER FILE SYSTEM]: Loading config files from ./Regions>Welcome\Region\
20:56:23 - [REGION LOADER FILE SYSTEM]: Loading config file ./Regions>Welcome\Region>Welcome.ini
20:56:23 - [REGION LOADER FILE SYSTEM]: Loaded config for region Welcome
20:56:23 - [LOAD REGIONS PLUGIN]: Loading specific shared modules...
20:56:23 - [LOAD REGIONS PLUGIN]: Done.
20:56:23 - [LOAD REGIONS PLUGIN]: Creating Region: Welcome (ThreadId: 1)
20:56:23 - [ESTATE]: Region Welcome is not part of an estate.
20:56:23 - [ESTATE]: No existing estates found. You must create a new one.
New estate name [My Estate]: 

```

سيطلب منك بعد ذلك اسم مالك هذه المنطقة. استخدم نفس الاسم الذي أدخلته أولاً

```

20:57:23 - [HG ASSET CONNECTOR]: Enabled asset caching for region Welcome
20:57:23 - [HG INVENTORY CONNECTOR]: Enabled HG inventory for region Welcome
20:57:23 - [NEIGHBOUR CONNECTOR]: Enabled out neighbours for region Welcome
20:57:23 - [Groups.RemoteConnector]: Groups server at http://192.168.2.3:8003/, authentication None
20:57:23 - [JPEGConverter]: Load into region Welcome
20:57:23 - [MI IMAGESERVICE]: Set up image service
20:57:23 - [MI IMAGESERVICE]: Starting watcher for DataSnapshot
20:57:23 - [MI IMAGESERVICE]: Creating directory DataSnapshot
20:57:23 - [TEMP ATTACHS]: Registered script functions
20:57:23 - [Compiler]: Allowed languages: lsl
20:57:23 - [LLUDPSERVER]: Starting inbound packet processing for the LLUDP server
20:57:23 - [UDPBEST]: Starting inbound UDP loop
20:57:23 - [UDPBEST]: SIO_UDP_CONNRESET flag set
20:57:23 - [WATCHDOG]: Started tracking thread Incoming Packets (Welcome), ID 32
20:57:23 - [LLUDPSERVER]: Starting outbound packet processing for the LLUDP server
20:57:23 - [UDPBEST]: Starting outbound UDP loop
20:57:23 - [WATCHDOG]: Started tracking thread Outgoing Packets (Welcome), ID 33
20:57:23 - [MODULE COMMANDS]: Script engine found, module active
20:57:23 - [AuthorizationService]: Region Welcome access restrictions: None
20:57:23 - [AUTHORIZATION CONNECTOR]: Enabled local authorization for region Welcome
20:57:23 - [BULLETSIN TERRAIN MANAGER]: Terrain for Welcome<0, 0, 0> created with Heightmap
20:57:23 - [WATCHDOG]: Started tracking thread GetMeshWorker0, ID 34
20:57:23 - [WATCHDOG]: Started tracking thread GetMeshWorker1, ID 35
20:57:23 - [WATCHDOG]: Started tracking thread GetTextureWorker0, ID 36
20:57:23 - [WATCHDOG]: Started tracking thread GetTextureWorker1, ID 37
20:57:23 - [WATCHDOG]: Started tracking thread InventoryWorkerThread0, ID 38
20:57:23 - [WATCHDOG]: Started tracking thread InventoryWorkerThread1, ID 39
20:57:23 - [SCENE]: Secure permissions loading enabled, modules loaded: DefaultPermissionsModule
Estate My Estate has no owner set.
Estate owner first name [Test]: 

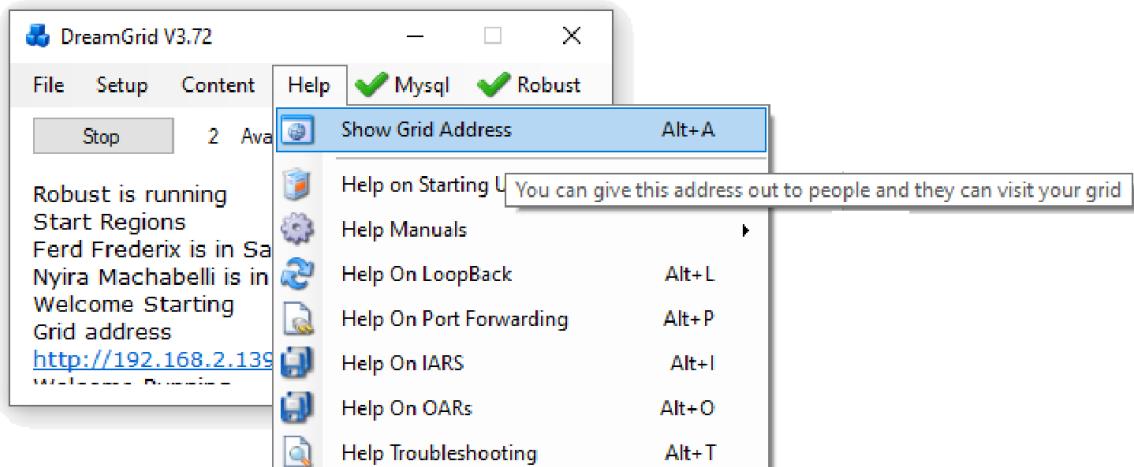
```

سيخبرك النظام في النهاية "تم التهيئة بالكامل للترحيب - تم تمكين تسجيلات الدخول

**"العارض الخاص بك"**

قد يقوم بطباعة اسم أو عنوان Hypergrid. انقر فوق العنصر الأول في قائمة التعليمات - إظهار عنوان IP.

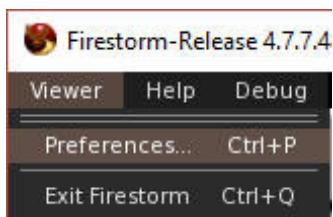
لن يكون متاحاً حتى تقوم بإعداد جهاز التوجيه. Hypergrid فسيعمل نظامك فقط على شبكة المنطقة المحلية الخاصة بك في هذا الوقت. شبكـة ، IP إذا كان عنوان راجع قسم التعليمات في أسفل هذه المقالة حول المنفذ والاسترجاع.



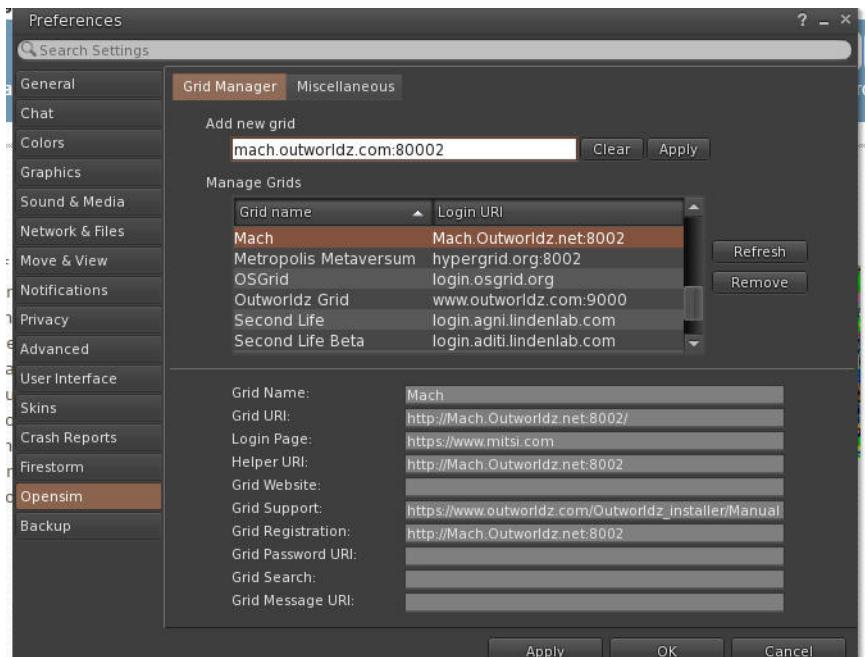
سيقوم النظام بطباعة العنوان.

يمكنك الحصول عليه من Opensim. قم بتزيل عارض العاصفة النارية لـ <https://www.firestormviewer.org/>

قم بتشغيل العارض والذهب إلى قائمة تفضيلات العارض (Ctrl-P).



انتقل إلى شاشة مدير شبكة Opensim:



الذي ظهر باللون الأزرق ، + : 8002 إلى حقل عاصفة النار أو المشاهدون الآخرون "إضافة شبكة جديدة" وانقر على "تطبيق أضف عنوان".

لتسجيل الدخول إلى الشبكة وتسجيل الدخول بنفس الاسم **DreamGrid Viewers** الجديد الخاص بك في القائمة المنسدلة DreamGrid يجب أن تكون الآن قادرًا على تحديد الأول والأخير وكلمة المرور اللذين أدخلتهما في الأصل. يجب أن تظهر بعد ذلك في شريحة فارغة على جزيرة مسطحة صغيرة بحجم  $1 \times 1$  تسمى مرحباً.

إذا لم يفلح ذلك ، فالرجاء استخدام ارتباط استكشاف الأخطاء وإصلاحها الموجود أسفل ملف التعليمات هذا.

## تشغيل الشبكة يدوياً

بدونها MySQL و Robust و Opensim يمكن تشغيل ، DreamGrid بعد التشغيل الأول لبرنامج.

بالإعدادات التي Opensim يتم تشغيل الملف الدفعي (sims فيه (المثال عبارة عن مجموعة من Opensim موجه الأوامر بمثيل **Go.bat** الملف الدفعي وملف السجل INI يحتاجها لملفات.

StopMysql.bat هناك موقع Mysql سيؤدي هذا إلى تمoid. "StartManually.bat" وقم بتشغيل Outworldzfiles \ mysql \ b الخطوة 1: انتقل إلى MySQL حتى لا تحتاج إلى بدء / إيقاف InstallAsAService.bat (برشاشة. يمكنك أيضًا تشغيل (مسؤول MySQL الذي سوق Services.msc ويبدأ عند تشغيل Windows.

.bat .ابداً يدوياً

استخدم هذا الملف الدفعي MySQL لا تغلق صندوق:

StopManually.bat

Robust الذي يبدأ تشغيل "Outworldzfiles \ Opensim \ RunRobust.bat" الخطوة 2. قم بتشغيل

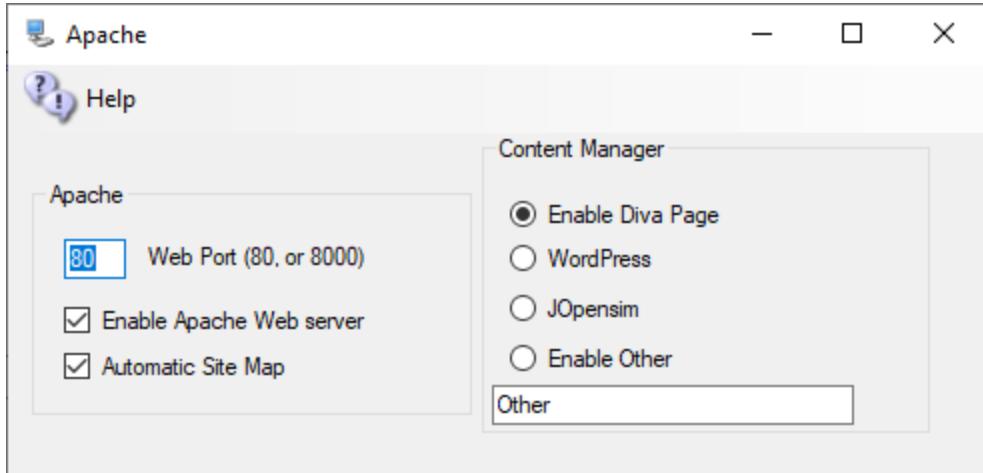
RunRobust.bat

واليتي تبدأ أي منطقة حسب اسم المثيل (مربع ، Outworldzfiles \ Opensim \ go.bat الخطوة الثالثة. قم بتشغيل Dos).

اذهب مرحباً

:الذي يقوم بالعديد من العناصر بالتسلسل "StartManually.bat" هذا هو الملف الدفعي

remarkable ملف دفعي لبدء DreamGrid يدوياً . في \ mysql القرص المضغوط ابداً يدوياً. مضرب يفتح القرص المضغوط مضرب runrobust استدعاء دعوة الذهاب مرحباً call go AnotherRegion قم بإضافة المزيد من أسماء المناطق هنا



(CMS). أو أنظمة إدارة المحتوى الأخرى Joomla / WordPress أو PHP7 أو Apache يمكن اختيارياً إعداد خادم ويب هو تقديم خريطة مفصلة وبحث كانون ووظائف أخرى مفيدة. إنه اختياري. يمكنك تعطيله مع الاستمرار في Apache / PHP الغرض الافتراضي من معطليين Apache & PHP فيمكنك ترك JOpenSim إذا لم تكون بحاجة للخراطط الإضافية أو تشغيل

## الويب

هي 80. إذا قام موفر خدمة الإنترنت بحظر المنفذ 80 ، فجرب 8000. قد تحتاج إلى فتح هذا المنفذ في جدار الحماية بجهاز الكمبيوتر.

### تمكين خادم ويب

Apache حتى يعمل خادم الويب و [Enable Apache Web Server] يجب تعيين مربع الاختيار لـ PHP.

الخاص بك على المنفذ 80. يمكنك التمرير فوق أي مربع ورؤية حجمه وموقعه وأسمه وتفاصيل URL عند التمكين ، ستظهر الخريطة على عنوان الميزة هي تقليل الفوضى وتشغيل خادم الويب على مدار DOS. عند بدء تشغيل جهاز الكمبيوتر الخاص بك. ان تظهر مربعات Apache أخرى. سيدأ 24 ساعة. ولكن إذا قمت بالتشغيل من مجلد آخر ، فسيظل الخادم يحاول التشغيل من المجلد الأصلي.

خدمة يدوياً Apache قم بتعطيل:

1. اكتب هذا في Windows Search cmd : الخاص بك
2. انقر بزر الماوس الأيمن فوق تطبيق موجه الأوامر وحدد "تشغيل كمسؤول".
3. الآن اكتب هذا في موجه الأوامر :

```
1. sc delete ApacheHTTPServer<إدخال>
```

4. غير إلى مجلد OutworldzFiles \ Apache \ bin.
5. اكتب هذا في نفس موجه مستوى المسؤول.

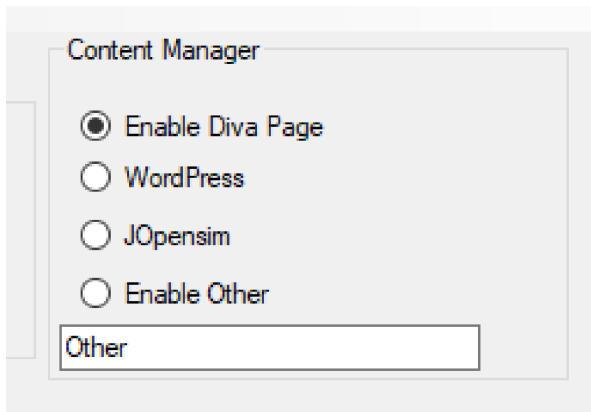
```
1. httpd -k<إدخال>
2. net start ApacheHTTPServer<إدخال>
```

هذا يجب أن يعيد كل شيء مرة أخرى.

## R المحتوى

هو برنامج كمبيوتر يستخدم لإدارة إنشاء المحتوى الرقمي وتعديلها. تُستخدم أنظمة إدارة المحتوى عادةً لإدارة محتوى المؤسسة (CMS) نظام إدارة المحتوى (ECM) الويب (WCM)

في هذا الدليل Diva Wifi راجع قسم صفحة ويب إدارة ، استخدم بالنسبة لصفحة الويب الافتراضية ،



تمكين WordPress في إعادة توجيه كل حركة المرور إلى الصفحة الرئيسية إلى مجلد Outworldzfiles \ Apache \ htdocs \ WordPress. هناك. توجد الإرشادات في هذا المجلد WordPress يجب عليك تثبيت.

تمكين JOpensim في إعادة توجيه كل حركة المرور إلى الصفحة الرئيسية إلى مجلد Outworldzfiles \ Apache \ htdocs \ JOpensim. توجد الإرشادات في هذا المجلد JOpensim.

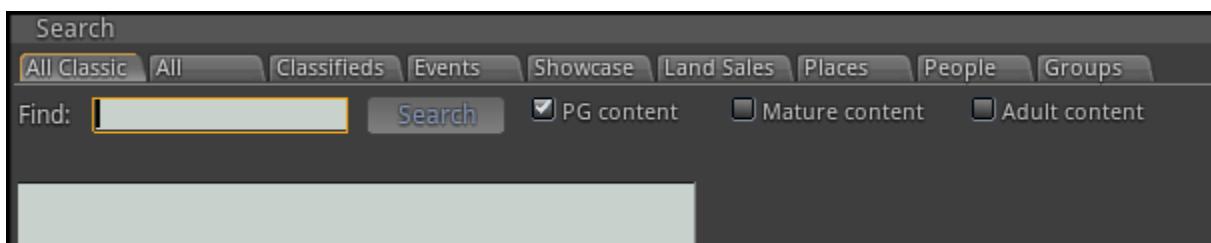
يمكنك عمل مجلد مختلف Outworldzfiles \ Apache \ htdocs \ other. تمكين آخر سيعيد توجيه كل حركة المرور إلى المجلد الآخر في

#### إعداد APACHE & SEARCH

وما إلى ذلك ... لديك ميزة بحث. قد يبدو مثل هذا داخل كل عارض OpenSim ، مثل Firestorm و Singularity والمعنيين المتاحين ، مثل OpenSim في كل من عارضين معنوي:



سيؤدي هذا إلى إظهار مربع الحوار التالي مع فئات البحث المعنية:



#### تمكين البحث

وبالتالي ، إذا تم تمكينه ، سيتم تسجيل أي مناطق أو مجموعات تم تمييزها في العارض من أجل إظهار في البحث وفهرستها بواسطة <https://hyperica.com> . فهو متاح لأي شخص للاتصال عليه. سيؤدي إيقاف تشغيل النظام إلى إزالته من البحث ، كما سيؤدي إلى إلغاء تحديد هذا المربع.

#### الأحداث

" بمجرد النقر فوق الزر "بحث" دون تحديد مصطلح بحث ، سترى جميع الأحداث الجارية والقادمة

Event Name Date/TIME

- 2:00 PM 03:00 PM
- show your mad skillz! We're going to use e... everything
- TEMPELRITTERambiente bei der Teststrecke... 03/28 12...
- TE BACK BAY POKER RUN-ENCORE ESCAPE 03/28 06...
- ROGUE ONE - A Star Wars Story 03/28 07...
- Viewer Tutorial (Firestorm) im Greenworld ... 03/29 12...
- Dancing at the Canibou Western Saloon vi... 03/29 12...
- Solotan-Grid Daily Meditations 03/29 12...
- Bury 03/29 04...
- IMA Evening Community Meeting 03/29 05...
- Star Empress Sky Lounge Presents Singer... 03/29 06...
- ★ DJ MOONIE@ LADY BLUE 6:30 to 8:30 pm [3/29 06]**
- AFTER DARK GROOVES w/ SOUTHERN RED 03/29 07...
- Spieleplattform auf der StarPunk Sim im ... 03/30 12...
- ★ DJ TEK BACHMAN 10AM -11:50AM @ ROCK... 03/30 10...
- ★ Dj Power@Tombstone 03/30 10...
- MUU: nFrost Animation 03/30 11...
- RHIA BACHMAN LIVE 03/30 11...
- Solotan-Grid Daily Meditations 03/30 12...
- COMMUNITY GATHERING 03/30 01...
- DJ Mike Chase Rocks The Fetish Fire Club 03/30 02...
- GREEDY 03/30 02...
- Dj Calope Andel - The Fetish Fire Club 03/30 04...
- Dj Jessica Party @ 4pm! Come as you are! 03/30 04...
- Dj Sterry@Tombstone 03/30 04...
- ★ DJ TEK BACHMAN @ TEK'S PLACE 5PM - 7PM 03/30 05...
- Dj Phoenix@ Tombstone 03/30 05...

Duration: 2:00  
Location: http://discoverygrid.net:8002/Wylewood Bayou (128, 128, 25)

Yesterday Today Tomorrow > Teleport Show on Map Remind me

### البحث عن كائنات

تتيح لك شاشة العرض هذه البحث عن الكائنات المميزة بعلامة "إظهار في البحث". يوجد زر بحث "عدسة مكبرة" في أسفل اليسار لتحسين البحث. يمكنك تحديد "100" أو 250 أو 500 صف. يمكنك الفرز حسب رأس أي عمود بالنقر فوق العنوان.

Name Description Region name Location

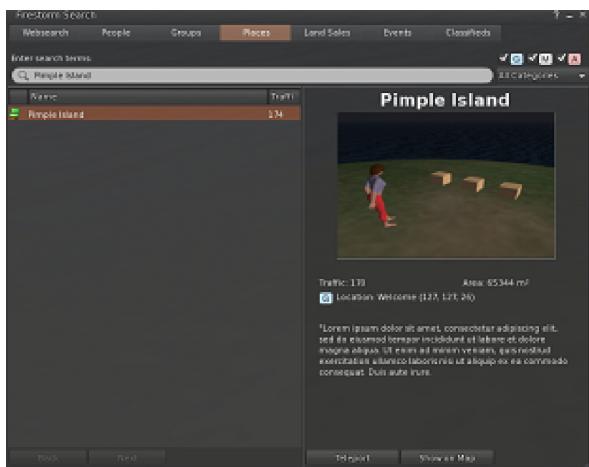
Cube prim 1	A simple cube	Welcome	129.588.131.1382.25.16588
Cube prim 2	A simple cube	Welcome	127.2476.131.1382.25.16588
Cube prim 3	A simple cube	Welcome	128.4514.131.1382.25.16588

SEARCH

100 Page 1 of 1 Displaying 1 to 3 of 3 items

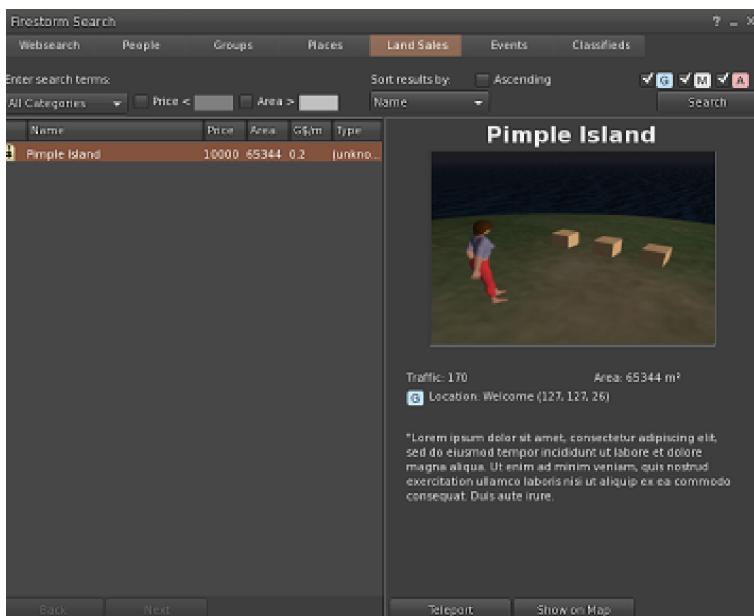
### البحث عن الأماكن:

أي طرد تم وضع علامة "إظهار في البحث" موجود في شاشة العرض هذه.



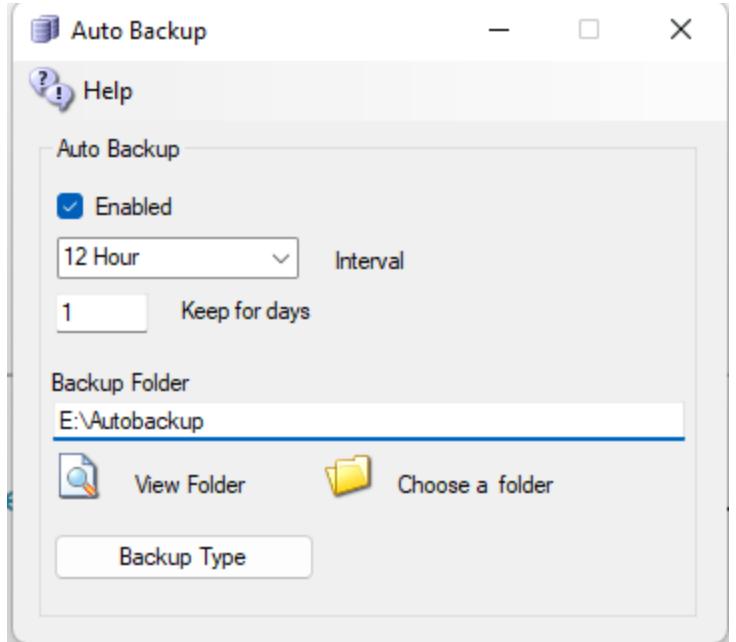
### مبيعات الأراضي:

يمكن وضع الطرود المعلمة للبيع و "إظهار في البحث" في هذه الشاشة:



### النسخ الاحتياطي - النسخ الاحتياطي

التلقائي تقوم وحدة النسخ الاحتياطي التلقائي بحفظ البيانات بشكل دوري في مجلد

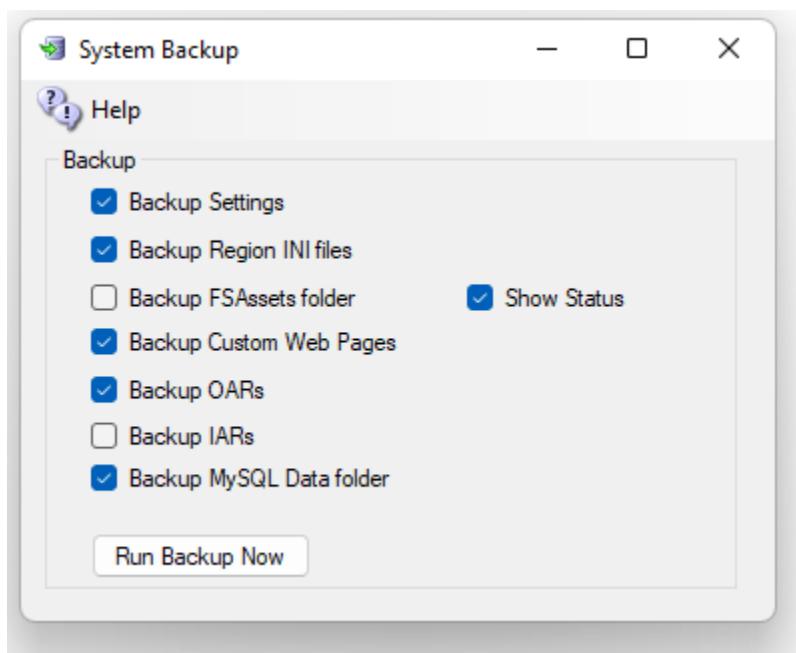


بعد تشغيل OAR يعمل نسخ احتياطية مختلفة لكل منطقة. على سبيل المثل ، سيقوم Opensim [سيقوم AutoBackup] بعمل نسخ احتياطية أيضًا. ستظهر ، [Backup Type] لوقت الفاصل الزمني . إذا كانت هناك مربعات اختيار معينة في Outworldzfiles \ AutoBackup.

أو ملف مضغوطة أقدم من هذه الفترة الزمنية OAR إلى حذف أي.

**حفظ إلى مجلد:** يمكنك النقر فوق اسم مجلد "النسخ الاحتياطي التلقائي" ، أو رمز المجلد ، وتعيين موقع مختلف.

**تنبيه:** يمكن أن تشغل هذه النسخ الاحتياطية مساحة كبيرة! من الأهمية بمكان حفظها على محرك أقراص مختلف حتى لا يتسبب محرك الأقراص الكامل في تعطل من مساحة القرص الخالية ويحذرك إذا كنت منخفضًا. سيحاول تجديد جميع أشطبة DreamGrid Opensim نظام قاعدة البيانات ونظام المنطقة المفتوحة إذا انخفضت مساحة القرص. إذا كانت مساحة القرص > 50 ميجابايت ، فسيتم استئناف التشغيل.



في ملف Zip. إعدادات النسخ الاحتياطي "ملفات Settings.INI".

المناطق إلى ملف \ Bin \ Opensim \ OutworldzFiles \ INI ملفات من منطقة النسخ الاحتياطي جميع ملفات المنطقة INI.

FSassets يقوم مجلد النسخ الاحتياطي (كبير جداً) بعمل نسخة من جميع مجلد FSassets.

صفحات الويب المخصصة للنسخ الاحتياطي هما مجلداً Wifi-Custom.

لا يقوم بتشغيلها مرة أخرى على جهاز ضبط الوقت Rub Backup Now. على نسخ جميع المناطق الاحتياطياً يدوياً إذا تم الضغط على زر Backup Oars.

واحداً تلو الآخر. وهذا يمكن أن يستغرق وقتاً IARs تقوم بعمل نسخة احتياطية لجميع Temp ands منطقة جديدة تسمى IARs ستبدأ طويلاً جداً.

صفحات الويب المخصصة للنسخ الاحتياطي هما مجلداً Wifi-Custom.

أيضاً FSassets يعمل نسخة احتياطية من قاعدة البيانات الرئيسية. أنت بحاجة إلى نسخة من MySql مجلد البيانات الاحتياطية!

Robocopy: FSASSETS robocopy هو برنامج DOS مدمج - FSassets وهي تتبع قاعدتين للرؤية قمت بتعيينهما للمناطق ، مثل العرض دائمًا. أو عدم العرض مطلقاً. يعمل بالفاتيح التالية:

كل شيء بما في ذلك المجلدات الفارغة - E /

يتم نسخ الملفات المعدلة التي تحتوي على مجموعة بت ، ثم يمسح البت - M /

انتظر حتى يتم تعريف أسماء المشاركة بواسطة الشبكة - TBD /

تضمين الملفات المعدلة التي تم تعديلها مرات - IM /

للملفات الكبيرة IO Unbuffered استخدام - J /

Robocopy وأيضاً مفتاح LFSM على Windows 10 أو Server يفعل ذلك على Windows 7.

مؤقتاً عندما تسبب Robocopy في وضع المساحة الخالية المنخفضة ، مما يتتيح إيقاف النسخ مؤقتاً واستئنافه. سيتم إيقاف - LFSM: 50M نسخة ملف في تقليل المساحة الخالية لوحدة التخزين الوجهة إلى أقل من 50 ميغا بايت.

راجع دليل "النسخ الاحتياطية اليدوية" لمعرفة طرق النسخ الاحتياطي يدوياً.

إذا حدثت جميع المربعات DreamGrid هذا ما يدعمه:

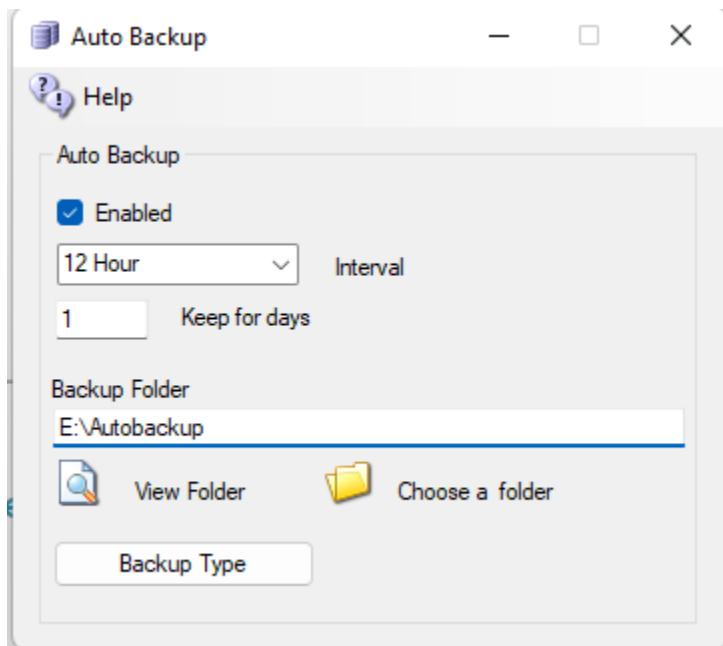
- OutworldzFiles \ Apache \ htdocs \ jOpensim \ folder  
OutworldzFiles \ Opensim \ WifiPages-Custom \ folder
- OutworldzFiles \ Settings.ini file
- OutworldzFiles \ XYSettings.ini file
- OutworldzFiles \ OpensimStat \ LocalUs.db. قاعدة بيانات حركة المرور والمشاهدين.
- OutworldzFiles \ Photo.png Custom Hyperica Photo
- OutworldzFiles \ NewBlack.png Custom Theme
- OutworldzFiles \ NewWhite.png Custom Theme
- OutworldzFiles \ NewCustom.png Custom Theme
- OutworldzFiles \ Opensim \ bin \ المناطق جميع ملفات المنطقة الداخلية
- Mysql قاعدة بيانات محمولة من Robust sql. قوية مثل

- Mysql Opensim قاعدة بيانات محمولة لمناطق sql. مثل sql.Opensim
- Joomla قاعدة بيانات محمولة لبيانات جملة sql. كـ sql.
- جميع الأصول ، التي يجب نسخها احتياطياً أخيراً على جهاز مباشر \bin \FSassets

## OPENSIM

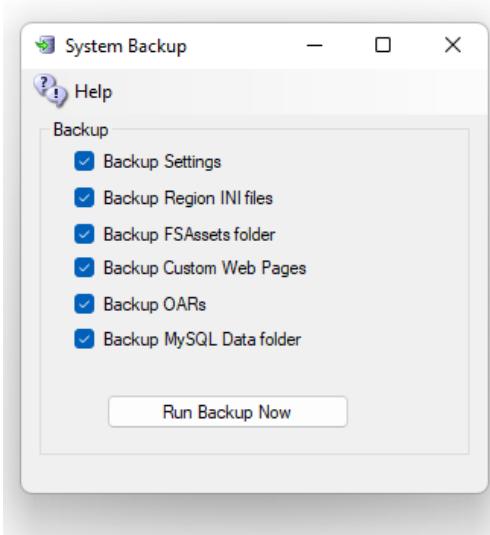
هو تنسيق قياسي يعمل على جميع الأجهزة ، ExFat ، بحجم 4096 قطاع ، إذا لم يكن لديك مقاييس ملونة ، فاستخدم أي مقبس أسود اللون. قم بتثبيته لـ . يتبع لك حجم المقطع الأصغر وضع المزيد من البيانات على القرص Mac و Linux و Windows.

محرك الأقراص الصلبة ، وهو E: إليك نظام التطوير الخاص بي الذي تم ضبطه على محرك الأقراص AutoBackup. تعيين مسار لمحرك الأقراص هذا في 容量 14 تيرابايت. حصلت عليه يوم الجمعة السوداء مقابل 189 دولاراً في Western Digital Easystore USB 3.0 محرك أقراص ثابتة هذه عادة أفضل الصفقات في الولايات المتحدة Best Buy.



اضبطه لمدة أسبوع من النسخ الاحتياطية. كان الإعداد الافتراضي يوماً واحداً ، أما الإعداد الافتراضي الآن فهو 3 أيام. لكن هذا ينطبق فقط على الشبكات الجديدة.

الآن انقر فوق نوع النسخ الاحتياطي



حدد جميع المربعات.

انقر فوق تشغيل النسخ الاحتياطي الآن.

قد يستغرق هذا أيام حتى ينتهي!

الآن قم بتشغيل الشبكة أسبوعياً وتحقق من مساحة القرص. إذا كان هناك الكثير من الأشياء المتبقية ، فاجعلها تبقى لمدة 14 يوماً وتحقق مرة أخرى في الخرساني والفولاذى المثبت على الأرض واذهب لشراء محرك Fire Safe أسبوع آخر. عندما يبدو أن القرص لن يعمل لمدة أسبوع ، قم بتوصيله في آخر. تحتاج إلى سختين احتياطيتين ، ويجب أن يكون أحدهما غير متصل بالإنترنت. USB أفراد ثابت

هذه فقط الخطوتين 3 و 2 من طريقة النسخ الاحتياطي 3: 2: 1. يجب عليك وضع أحدث نسخة على الأقل في السحابة للتعامل مع الجزء "1". هناك يتعطل على ملفات مضغوطة كبيرة والعديد Dropbox أو iDrive أو Microsoft OneDrive أو Google Drive العديد من الحلول مثل على الرغم من أن لدى OneDrive ملفاتك وستحصل بالضرورة إذا وجدت شيئاً مريئاً. لم أجرب Google تفحص Google bin \ fsassets. يعمل بشكل جيد مع البعض ولا يتعطل أبداً iDrive 1 تيرابايت مجاني مع اشتراكات 365 الخاصة بي. أعلم أن

IAR و

الخاصة بك فهي محمولة. لديهم هذا الذهاب لهم. يمكنك بسهولة نسخها جميعاً. ما عليك سوى البحث في المحتوى ضمن IARS ليسا نسخاً احتياطية من شبكة OAR واختبار المنطقة التي ستكون مشغولة للغاية لعدة أيام أو أكثر. لقد فعلت 909 أشخاص مؤخراً. Backup All IARS والنقر فوق الارتباط ، يعمل بشكل رائع. تم استخدام ما يصل إلى 156 جيجابايت من القرص. رصدت شخصاً لديه 32 جيجا من المخزون. استخدم شخص ما شبكتي لسرقة مجموعة من الأشياء ، لذلك إذا تم حظرها ، فلن يتم منعها من الزيارة من شبكتها. أنا هنا منذ 11 عاماً ولدي 7 غيغابايت فقط.

وحتى آخر إصدار (اعتباراً من الأمس) لا IARs هي نسخ احتياطية لأجزاء من مخزون واحد. ليس لدى IARs ذلك سيتم كسر روابط المظهر. يمكنك إصلاحها ، IAR عند تحميل UUIDs إعادة بناء المظاهر. تتغير IARs توجد حرف ألفا لافتراك. لا تستطيع الخاص بك من شبكة IAR لملء DreamGrid على أي Diva Wifi بمسؤولية DreamGrid على شبكة أخرى. يمكنك استخدام لوحة لها استخداماتها ولكنها ليست نسخة احتياطية كاملة IARs أخرى.

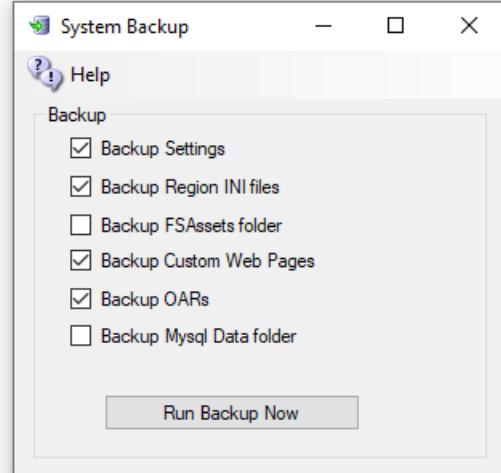
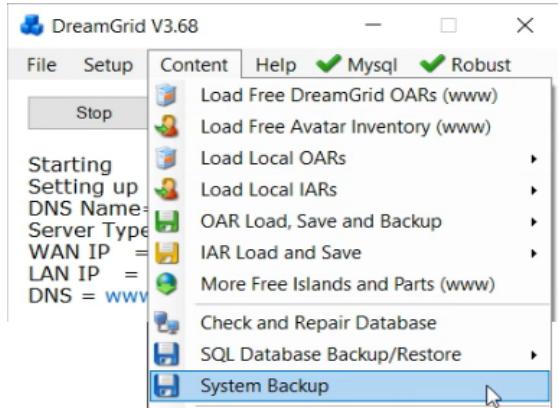
ما هو حجم المنطقة؟ OARS. الشيء نفسه ينطبق على bin \ المحرك؟ هذه المعلومات موجودة في Y أو X سهل جدا. ولكن ليس نسخة احتياطية من المنطقة. ما هو حجم المنطقة؟ OARS. ذلك DreamGrid المناطق ، والتي يدعمها

هي الأشياء التي يجب عليك الحصول عليها للحصول على نسخة احتياطية كاملة لاستعادة الشبكة. سوف تكون أصول bin \ data and bin \ fsassets لأنها يشير إلى الملفات. إذا تم إجراء ذلك بترتيب خاطئ على شبكة FSAssets احتياطياً قبل MySQL ضخمة. ربما ملأين الملفات. يجب نسخ MySQL ثم ، افعل ذلك بترتيب MySQL + MySQL fsasset + MySQL. Fssassets.

الروابط:

[http://opensimulator.org/wiki/Load\\_Oar\\_0.9.0%2B](http://opensimulator.org/wiki/Load_Oar_0.9.0%2B)

## إعدادات



تدعم

النسخ الاحتياطي تستخدم النسخ الاحتياطية اليدوية مساحة كبيرة على القرص ، لكنها جميع الملفات المهمة بسرعة وبصيغة قابلة للاستخدام. سيرحظ العناصر AUTOBACKUP.

قد تظهر بعض هذه المربعات باللون الرمادي أو لا يمكن تحديدها لأنك أو النظام لم يقم بتنشيط هذه الخدمة.

## CHECKBOXES

على كافة إعدادات الشبكة. يحتوي Setting.ini و XYSettings.ini في شكل مضغوط. يحتوي XYSettings.ini على كافة إعدادات الشبكة. يحتوي Setting.ini على حفظ ملفات -

المناطق في ملف مضغوط. تلك المفيدة \ Opensim \ bin المفيدة وهيكل الدليل من Region.ini لمنطقة النسخ الاحتياطي - يتم حفظ جميع ملفات INI ملخصات Region.ini المفيدة وهيكل الدليل من Region \ DosBoxName \ Region \ folder موجودة في

هذا يحتوي فقط على أصول قاعدة البيانات. ما زلت بحاجة إلى الاحتفاظ بنسخة ، FSAssets إذا كنت تقوم بتشغيل نظام MySQL احتياطيًا من MySQL.

في حالة WifiPages-Custom و WifiPages-Custom نسخ صفحات الويب المخصصة احتياطيًا - يقوم هذا بعمل نسخة احتياطية من مجلدين في إجراء تغييرات.

OARs ويحفظها من كل منها بالاسم والتاريخ والوقت في OAR الاحتياطي - يتم تشغيل جميع المناطق التي تمكّن Autobackup.

Backup MySQL \ Data: التي تشكل قاعدة البيانات بأكملها opensim.sql و robust.sql يحتفظ هذا الرمز البريدي بملفات.

## استراتيجيات النسخ الاحتياطي

هناك أنواع متعددة من النسخ الاحتياطية. تكون النسخ الاحتياطية على مستوى المنطق ، أو على مستوى الشبكة ، والتي تشمل المناطق. تذكر أيضًا أن هناك دائمًا قاعدة بيانات أو أكثر على الشبكة: قاعدة البيانات القوية للشبكة ، وقاعدة بيانات المناطق المفتوحة. يمكن أن يكون هناك أكثر من قاعدة بيانات واحدة ، حيث يمكن أن تكون الشبكة من أكثر من جهاز واحد Opensim.

## مستوى المنطقة

ليتم إنشاؤه وفقًا لجدول زمني. - 24 ساعة اختيار OARS ويمكنك فعلها جميعًا بنقرة واحدة. يمكنك أيضًا إعداد Content Save Oars بشكل سريع - ابحث في ممتاز.

## مستوى الشبكة

أكثر صعوبة و تستغرق وقتاً أطول ، حيث تحتاج إلى كلمة المرور. لكن يجب عليك صنعها في المناسبات على أي حال. فقط في حالة. تستغرق وقتاً طويلاً ويمكن أن في كثير من الأحيان! IAR فأنا أوصي بشدة أن تحصل على نسخة احتياطية من ، OsGrid أو Metro تتأخر عن الشبكة عند الجري. إذا كنت تستخدم لقد فقدت البيانات في أوقات مختلفة في هاتين الشبكتين الرئيستين.

## مستوى الشبكة

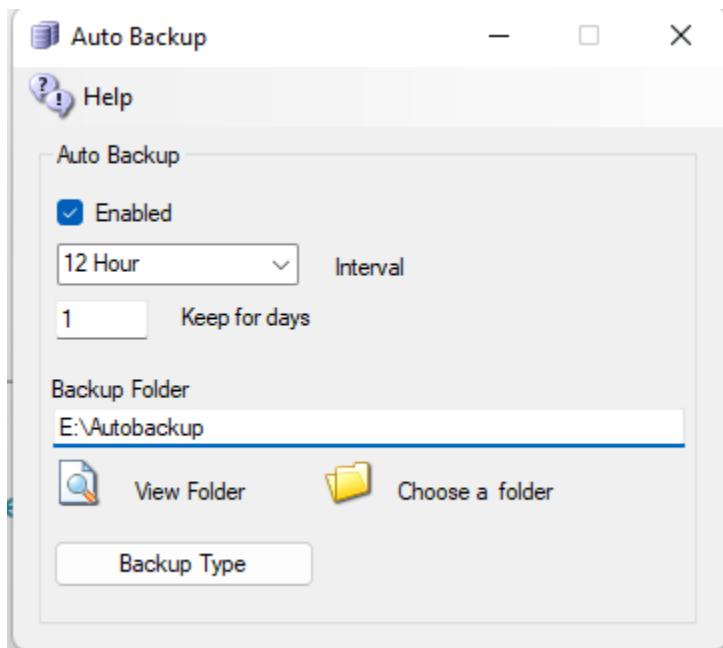
المنطقة والإعدادات. باستخدام هذا ، يمكنك UUID بطيئاً أيضاً ، ولكنه شامل للغاية. يحفظ الملابس و تسجيلات الدخول وأسماء المستخدمين ؛ كل شيء ما عدا المعروف أنها تتطور. هذا نوع من العمل الشهري MySQL إصلاح المشكلات في

## UUID:

الخاص بك. هذا متاح في ملف التعريف الخاص بك. إذا كان لا بد من البدء من جديد ، فستحتوي الصور الرمزية الجديدة على الأقل على UUID احتفظ بنسخة من و ستمتلك كل شيء قمت بإنشائه UUID نفس

## النسخ الاحتياطي - النسخ الاحتياطي

التلقائي تحفظ وحدة النسخ الاحتياطي التلقائي البيانات في مجلد بشكل دوري .

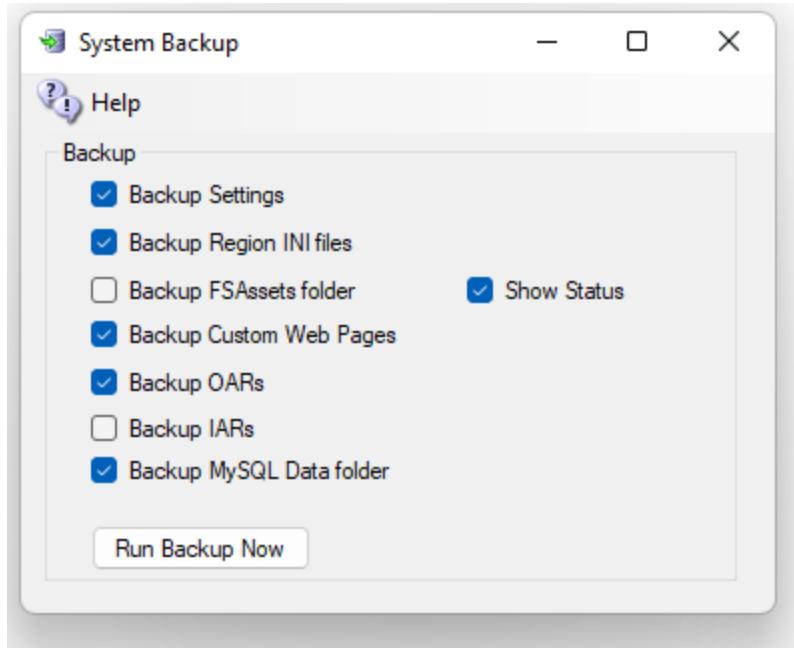


بعد تشغيل OAR يعمل نسخ احتياطية مختلفة لكل منطقة. على سبيل المثال ، سيقوم Opensim سيقوم ، فسيتم نسخ هذه الملفات احتياطياً أيضًا. ستظهر ، [Backup Type] للفارق الزمني زمن. إذا كانت هناك مربعات اختيار معينة في Opensim Outworldzfiles \ AutoBackup.

أو ملف مضغوط أقدم من هذه الفترة الزمنية OAR إلى حذف أي Keep for Days.

يحفظ إلى مجلد: يمكنك النقر فوق اسم مجلد "النسخ الاحتياطي التلقائي" ، أو رمز المجلد ، وتعيين موقع مختلف

تنبيه: يمكن أن تشغّل هذه النسخ الاحتياطية مساحة كبيرة! من الأهمية بمكان حفظها على محرك أقراص مختلف حتى لا يتسبّب محرك الأقراص الكامل في تعطل من مساحة القرص الخالية ويحذرك إذا كنت منخفضًا. سيحاول تجميد جميع أنشطة DreamGrid Opensim. نظام قاعدة البيانات ونظام المنطقة المفتوحة إذا انخفضت مساحة القرص. إذا كانت مساحة القرص < 50 ميجابايت ، فسيتم استئناف التشغيل



إعدادات النسخ الاحتياطي يحفظ ملفات Settings.INI في ملف Zip.

المناطق إلى ملف OutworldzFiles \ Opensim \ Bin \ حفظ ملفات INI الخاصة بمنطقة النسخ الاحتياطي جميع ملفات المنطقة INI.

FSassets (كبير جدًا) يعمل نسخة من جميع مجلد FSassets يقوم مجلد النسخ الاحتياطي.

صفحات الويب المخصصة للنسخ الاحتياطي هما مجلدا Wifi-Custom.

لا يقوم بتشغيلها مرة أخرى على Rub Backup Now على نسخ جميع المناطق احتياطياً يدوياً إذا تم الضغط على زر Backup Oars ستعمل جهاز ضبط الوقت.

واحدًا تلو الآخر. وهذا يمكن أن يستغرق وقتاً طويلاً جداً. IARs تقوم بعمل نسخة احتياطية لجميع Temp ands منطقة جديدة تسمى الاحتياطية ستبدأ.

Wifi-Custom المخصصة للنسخ الاحتياطي هما مجلدا.

أيضاً FSassets يعمل نسخة احتياطية من قاعدة البيانات الرئيسية. أنت بحاجة إلى نسخة من MySql الاحتياطية

Robocopy وهي تتبع قاعدتين للرؤية قمت بتعيينهما للمناطق ، مثل FSASSETS robocopy DOS وهو برنامج ، مثل FSassets: العرض دائمًا أو عدم العرض مطلقاً. يعمل بالمفاتيح التالية:

/ E كل شيء بما في ذلك المجلدات الفارغة -.

/ M يتم نسخ الملفات المعدلة التي تحتوي على مجموعة بت ، ثم يمسح البت -.

/ TBD انتظر حتى يتم تعريف أسماء المشاركة بواسطة الشبكة -.

/ IM تضمين الملفات المعدلة التي تم تعديلها مرات -.

للملفات الكبيرة Unbuffered IO استخدام - L.

Robocopy أو LFSM هذا على Windows 7. أيضاً مفتاح

Robocopy سي العمل في وضع المساحة الخالية المنخفضة ، مما يتبع إيقاف النسخ مؤقتاً واستئنافه. سيتم إيقاف - / LFSM: 50M نسخة ملف في تقليل المساحة الخالية لوحدة التخزين الوجهة إلى أقل من 50 ميغا بايت مؤقتاً عندما تتسرب.

راجع دليل "النسخ الاحتياطية اليدوية" لمعرفة طرق النسخ الاحتياطي يدوياً.

إذا قمت بتحديد جميع المربعات DreamGrid هذا ما يدعمه:

OutworldzFiles \Apache \htdocs \jOpensim \folder  
OutworldzFiles \ Opensim \ WiFiPages-Custom \ folder

OutworldzFiles \ Settings.ini ملف

OutworldzFiles \ XYSettings.ini ملف

قاعدة بيانات حركة المرور والمشاهدين OutworldzFiles \ Opensim \ bin \ LocalUserStatistics.db.

OutworldzFiles \ Photo.png Custom Hyperica Photo

OutworldzFiles \ NewBlack.png Custom Theme

OutworldzFiles \ NewWhite.png Custom Theme

OutworldzFiles \ NewCustom.png Custom Theme

المناطق جميع ملفات المنطقة الداخلية OutworldzFiles \ Opensim \ bin

قاعدة بيانات محمولة من قوي sql. قوية مثل Mysql

Mysql Opensim قاعدة بيانات محمولة لمناطق Opensim . كـ

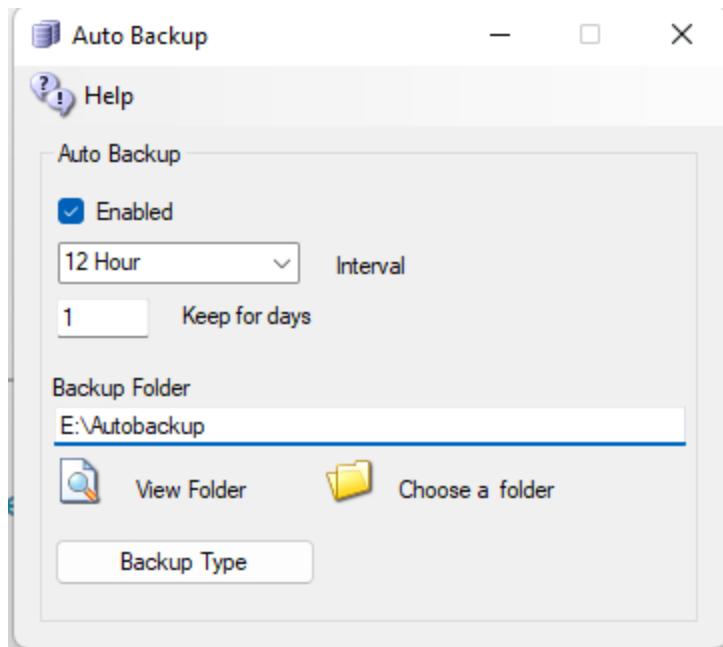
Joomla قاعدة بيانات محمولة لبيانات جملة sql. كـ

جميع الأصول ، التي يجب نسخها احتياطياً أخيراً على جهاز مباشر bin \

## FSassets

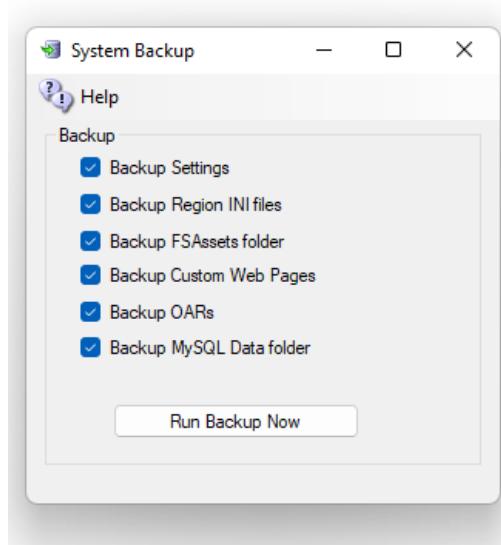
هو تنسيق فياسي يعمل على جميع ExFat بحجم 4096 قطاع ، إذا لم يكن لديك مقابس ملونة ، فاستخدم أي مقبس أسود اللون. قم بتهئته . يتيح لك حجم المقطع الأصغر وضع المزيد من البيانات على القرص.

Western Digital Easystore USB 3.0. هو محرك أقراص ثابتة بسعة 14 تيرابايت. حصلت عليه يوم الجمعة السوداء مقابل 189 دولاراً في Best Buy. هذه عادة أفضل الصفقات في الولايات المتحدة.



اضبطه لمدة أسابيع من النسخ الاحتياطية. كان الإعداد الافتراضي يوماً واحداً ، أما الإعداد الافتراضي الآن فهو 3 أيام. لكن هذا ينطبق فقط على الشبكات الجديدة.

الآن انقر فوق نوع النسخ الاحتياطي



حدد جميع المربعات.

انقر فوق تشغيل النسخ الاحتياطي الآن.

قد يستغرق هذا أيام حتى ينتهي!

الآن قم بتشغيل الشبكة أسبوعياً وتحقق من مساحة القرص. إذا كان هناك الكثير من الأشياء المتبقية ، فاجعلها تبقى لمدة 14 يوماً وتحقق مرة أخرى في أسبوع الخرساني والفولاذي المثبت على الأرض واذهب لشراء محرك أقراص ثابت Fire Safe آخر. عندما يbedo أن القرص لن يعمل لمدة أسبوع ، قم بتنوسيله في آخر. تحتاج إلى نسختين احتياطيتين ، ويجب أن يكون أحدهما غير متصل بالإنترنت.

هذه فقط الخطوتين 3 و 2 من طريقة النسخ الاحتياطي 3: 2: 1. يجب عليك وضع أحدث نسخة على الأقل في السحابة للتعامل مع الجزء "1". هناك العديد من يتعطل على ملفات مضغوطة كبيرة والعديد من الملفات ، Dropbox أو Microsoft OneDrive أو Google Drive على الرغم من أن لدي 1 تيرابايت مجاني OneDrive ملفاتك وستحصل بالشرطة إذا وجدت شيئاً مريباً. لم أجرب Google Photos مثل bin \ fsassets . يعمل بشكل جيد مع البعض ولا يتعطل أبداً iDrive مع اشتراكات 365 الخاصة بي. أعلم أن

## IAR و بك

All Backup والنقر فوق الارتباط ، IARs فهي محمولة. لديهم هذا الذهاب لهم. يمكنك بسهولة نسخها جميعاً. ما عليك سوى البحث في المحتوى ضمن واختيار المنطقة التي ستكون مشغولة للغاية لعدة أيام أو أكثر. لقد فعلت 909 أشخاص مؤخراً. يعمل بشكل رائع. تم استخدام ما يصل إلى 156 IARs جيجابايت من القرص. رصدت شخصاً لديه 32 جيجا من المخزون. استخدم شخص ما شبكتي لسرقة مجموعة من الأشياء ، لذلك إذا تم حظرها ، فلن يتم منها منعها من الزيارة من شبكتها. أنا هنا منذ 11 عاماً ولدي 7 غيغابايت فقط.

وحتى آخر إصدار (اعتباراً من الأمس) IARs UUIDs أسماء مستخدمين أو كلمات مرور أو IARs هي نسخ احتياطية لأجزاء من مخزون واحد. ليس لدى IARs ذلك سيتم كسر روابط المظهر. يمكنك إصلاحها ، IARs عند تحميل UUIDs إعادة بناء المظاهر. تتغير IARs لا توجد أحرف ألفا لأفatarsك. لا تستطيع الخاص بك من شبكة أخرى DreamGrid على أي Diva Wifi لملء IAR على أي DreamGrid على أي Diva Wifi بسهولة ، لكنها مملة. إنها جيدة للانتقال إلى شبكة أخرى. يمكنك استخدام لوحة لها استخداماتها ولكنها ليست نسخة احتياطية كاملة IARs.

bin المحرك؟ هذه المعلومات موجودة في Z أو X سهل جداً. ولكن ليس نسخة احتياطية من المنطقة. ما هو حجم المنطقة؟ OARS. الشيء نفسه ينطبق على لك DreamGrid المناطق ، والتي يدعمها DreamGrid.

هي الأشياء التي يجب عليك الحصول عليها للحصول على نسخة احتياطية كاملة لاستعادة الشبكة. سوف تكون Mysql \ data and bin \ fsassets لأنها يشير إلى الملفات. إذا تم إجراء ذلك بترتيب خاطئ على شبكة FSAssets احتياطياً قبل Mysql ضخمة. ربما ملايين الملفات. يجب نسخ FSA أصول افعل ذلك بترتيب MySQL ثم ، MySQL | Fsassets.

:الروابط

[http://opensimulator.org/wiki/Load\\_Oar\\_0.9.0%2B](http://opensimulator.org/wiki/Load_Oar_0.9.0%2B)

## قوائم

Ethernet هي رقم تسلسلي موجود في بطاقات MAC والمشاهدين وعنوانين IP. الحظر يمكن تعينه للشبكات وعنوانين Windows. إنها وعن طريق إضافة إدخالات إلى جدار حماية ، Opensim Robust الحظر هذه على إيقاف حركة المرور الواردة باستخدام قدرات ليست حلاً شاملاً ولكنها يمكن أن تعمل في كثير من الحالات. قد لا يكون هذا فعالاً حيث يمكن تغيير اسم تسجيل الدخول ، ويمكن تعديل اسم العرض ، VPN. بواسطة مزود خدمة الإنترنت أو يأتي من IP مختلف أو قد يكون لديهم تغييرات عليه ، وقد يتغير MAC وقد يكون لديهم جهاز كمبيوتر آخر مع يقتحمون جهاز الكمبيوتر ، وهي جنائية ، لذلك يمكن تطبيق عقوبات تتجاوز بكثير قوانين (DRM) الأشخاص الذين يتجاوزون قيود إدارة الحقوق الرقمية حقوق النشر.

Ban List		
	Banned	Comment or Notes
#	# Examples are below.	You can ban a viewer, an IP and/or a MAC address.
	# 34.206.39.153	This IP from 'junk.com' is banned.
	# SolarStorm	Singularity Solar Storm Copybot
	# bacbf6d9e97686d38d6fc1c2b335f126	This MAC address is banned. Get MACs from the Robust log.
	# http://griefergames.com	Ban the grid
*	# The # is a comment	Delete or modify any rules then close this window. Robust will restart if running.

لاحظ أن # اعدادات التعليق

فقط نظراً لعدم تشغيل خادم IP والمنطقة ، ستعمل عمليات حظر Metro و OsGrid تدخل حيز التنفيذ عند حفظ الشاشة بعد إجراء التغييرات. بالنسبة لخواص المنطقة لديك.

الحصول على بيانات الحظر

للاشخاص من السجل القوي فور حدوثه. يمكنك أيضًا البحث `MAC` وعنوان IP الممنفذ وعنوان `http://name`: يمكنك الحصول على اسم تسجيل الدخول والشبكة لعرض السجل باستخدام Help -> View Logs-> Robust Baretail.exe.

## INFO من الأفضل تشغيل السجل القوي مع ضبط مستوى السجل على INFO.

(سيكون إدخال سجل قوي نموذجي على النحو التالي: (النقطة البارزة تخصني

```
INFO (104) - OpenSim.Services.HypergridService.GatekeeperService خدمة [GATEKEEPER] طلب تسجيل الدخول إلى : www.xyz.com_@8002 @ http: / /www.xyz.com: 8002 / (3be47575-06dd-46b0-8637-87a8967c432c) في (ab8d7770-3782-21e4-8c41-1813211c9b88 باستخدام عارض Firestorm-Releasex64 5.2.8.58205 ، IP 52.8.203.221، d5af8bee7e6a265c41e729416d570f57 ، Id0 dac5b5d03d9bbe2225d2c91c3238d59f أعلام ، من المنطقة مكانها ViaLogin. : النقل الفضائي 2)c53df18-143f-4340-ae73-f2885d9694d8) @ http://grid.nope.com:8002/
```

## GRID BAN

في نفس النطاق من 256 عنوان IP على النحو التالي: 52.8.203.221 إلى النهاية لحظر جميع عناوين IP أضاف عنوان IP لحظر "http://www.xyz.com: 8002" و "http://grid.nope.com: 8002" لحظر الشبكة التي تنقلها الصورة الرمزية عن بعد (وليس بالضرورة شبكتها الرئيسية) ، أضاف "http://": port".

## IP حظر

في نفس النطاق من 256 عنوان IP على النحو التالي: 52.8.203.221 إلى النهاية لحظر جميع عناوين IP أضاف عنوان IP لحظر IP 52.8.203.0 إلى IP 52.8.203.255. استخدم IP "52.8.203.0/24".

## حظر عنوان MAC

من السجل القوي MAC أضاف عنوان ، Ethernet لبطاقة MAC لحظر جهاز كمبيوتر باستخدام عنوان "d5af8bee7e6a265c41e729416d570f57".

## حظر العارض لحظر عارض

لحظر كل الإصدار 5 من العواصف النارية ، أضاف "Firestorm-Releasex64 5.2.8.58205". معين ، أضاف الاسم والمراجعة "Firestorm-Releasex64 5".

## COPYBOT VIEWERS

To ban old copybot viewers such as DarkStorm, add "Firestorm-Releasex64 5.0.11". These old viewers are rarely in use, except by copybotters.

FirstName	LastName	SessionEnd	SessionLength	Client
	@grid.metaversedepot.com:8002	11/14/2018 - 10:00 PM	4 Minutes	Firestorm-Releasex64 5.1.7.55786
		11/14/2018 - 10:02 PM		Firestorm-Releasex64 5.1.7.55786
		3/30/2019 - 4:03 AM	44 Minutes	Firestorm-Release 5.0.11.53634
		3/30/2019 - 4:26 AM	4 Minutes	Firestorm-Release 5.0.11.53634
		3/30/2019 - 4:35 AM	6 Minutes	Firestorm-Release 5.0.11.53634
		3/30/2019 - 6:19 AM	2 Minutes	Firestorm-Release 5.0.11.53634
		3/30/2019 - 6:28 AM	2 Minutes	Firestorm-Release 5.0.11.53634
		10/9/2019 - 7:35 PM	1 Hours 21 Minutes	Firestorm-Releasex64 5.0.1.52150
		1/15/2020 - 5:36 PM	2 Hours 8 Minutes	Firestorm-Release 5.1.7.55786

There are several ways get data to ban by viewer. One way is to look in the Stats for your Welcome region. Another is to copy and paste it from the robust screen, or robust.log. Click your Welcome region in the Regions menu, then select the Statistics Button. This screen shows the "Sessions" tab, so you can see if someone is still using an old viewer recently. If so, they are a candidate to be a copybotter.

There is a Analyze Log button in the Log settings that will show you all MAC and Disk ID0's that were seen.

## BIRD MODULE

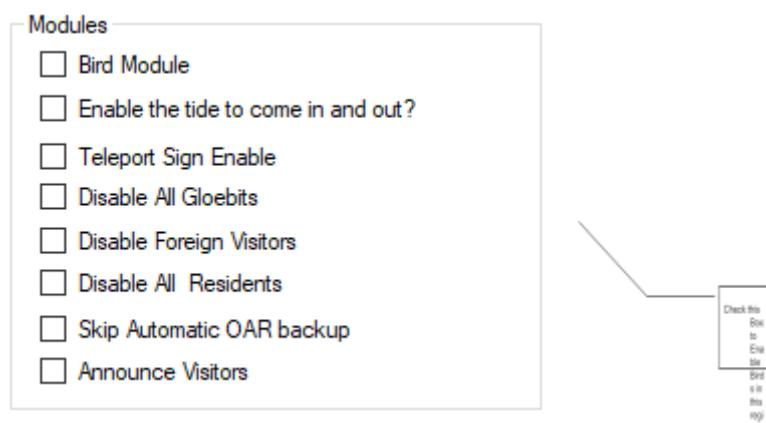
The bird module makes flocks of birds possible.

You will need a bird. There is a button at the top of the Setup Page that will ask you for your Avatar Name and password. It will load a pair of Seagulls into your inventory.

You should log in and rez "SeaGull1" on the ground in one or more of your regions.

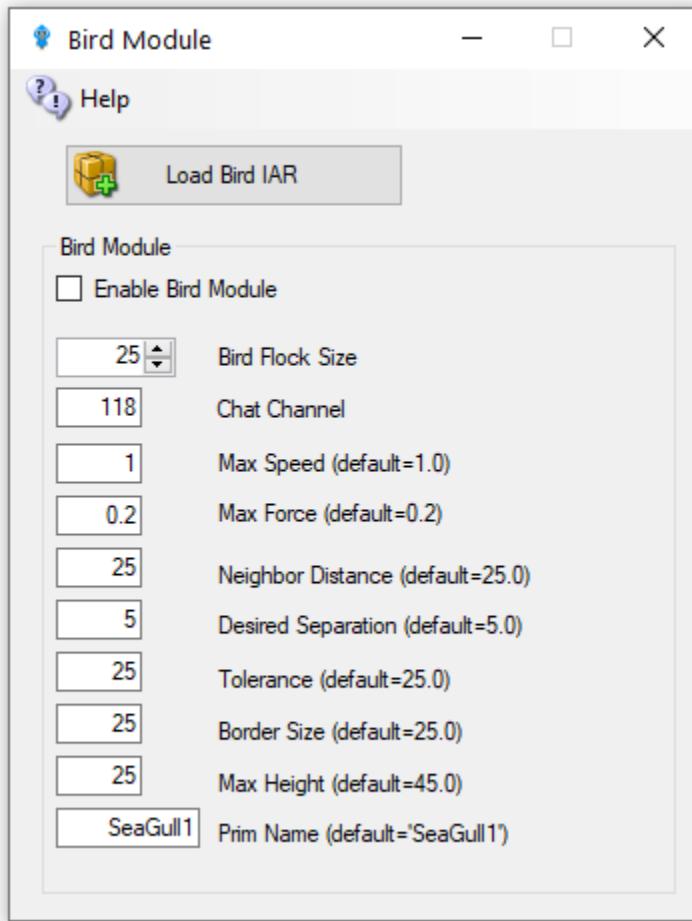


You will need to enable the bird module in each region's control panel.



## GLOBAL SETTINGS

There are many settings for the Bird Module. You can use the defaults. You must also click Enable and reboot the grid. Birds must also be enabled in each Region. See each Region's edit screen for the checkbox.



Enable Bird Module: Determines whether the module does anything.

BirdsFlockSize = 50: The number of birds to flock

BirdsMaxFlockSize = 100: The maximum flock size that can be created (keeps things sane)

BirdsMaxSpeed = 3: How far each bird can travel per update. An update is 11 FPS

BirdsMaxForce = 0.25: The maximum acceleration allowed to the current velocity of the bird

BirdsNeighbourDistance = 25: Max distance for other birds to be considered in the same flock as others

BirdsTolerance = 5: How close to the edges of things can we get without being worried

BirdsBorderSize = 5: How close to the edge of a region can we get?

BirdsMaxHeight = 25: How high are we allowed to flock

BirdsUpdateEveryNFrames = 1: Update bird positions every N simulator frames

**BirdsPrim = SeaGull1:** By default, the module will create a flock of plain wooden spheres, however this can be overridden to the name of an existing prim that needs to already exist in the scene - ie, be rezzed in the region.

## Console Commands

The following commands can be issued on the Console or via in-world chat or scripted chat on the Chat Channel to control the birds at runtime:

**birds-stop** or **/118 stop**  
stop all birds flocking

**birds-start** or **/118 start**  
start all birds flocking

**birds-enable** or **/118 enable**  
enable the flocking simulation if disabled and rez new birds

**birds-disable** or **/118 disable**  
stop all birds and remove them from the scene

**birds-prim <name>** or **/118 prim <name>** changes the name of the bird prim that it loads

**framerate <num>**  
only update the flock positions every frame, only useful for photography and debugging bird behavior.

These commands are great for playing with the flock dynamics in real time:

**birds-size** or **/118 size**  
change the size of the flock

**birds-speed** or **/118 speed**  
change the maximum velocity each bird may achieve

**birds-force** or **/118 force**  
change the maximum force each bird may accelerate

**birds-distance** or **/118 distance**  
change the maximum distance that other birds are to be considered in the same flock as us

**birds-separation** or **/118 separation**  
sets how far away from other birds we would like to stay

**birds-tolerance** or **/118 tolerance**  
sets how close to the edges of things can we get without being worried. If distance is less than separation, then the birds will never flock. The other way around and they will always eventually form one or more flocks.

## SECURITY

By default, anyone can send commands to the module from within a script or via the in-world chat on the 'BirdsChatChannel' channel. You should use a high negative value for this channel if you want to allow script access, but not in-world chat.

## BIRD PRIMS

Any currently rezzed in-scene-object can be used as the bird prim. However, fps is very much affected by the complexity of the entity to use. It is easier to throw a single prim (or sculpty) around the scene than it is to throw the constituent parts of a 200 linked prim dragon.

Tests show that <= 500 single prims can be flocked effectively - depending on system and network. However maybe <= 300 simple linksets can perform as well.

## NETWORK TRAFFIC

I tested the amount of network traffic generated by bird updates. 20 birds (each with 4 linked prims) take up about 300kbps in network position updates. 50 of the same birds generates about 750kbps traffic. Each bird uses roughly 15kbps of network traffic. This is all measured using an update framerate of 1, ie, birds' position is updated every simulator frame.

## STATISTICS

The stats command in-world or via script returns data to BirdsChatChannel. The console command returns stats to the console. All the modules parameters are returned including a list of the active bird prims currently rezzed in the region, and the UUIDs of those prims' root prim. Also included is a list of any avatar UUIDs that may be sitting on those prims.

Here is an example output:

```
birds-started = False
birds-enabled = True
birds-prim = SeaGull1
birds-framerate = 1
birds-maxsize = 100
birds-size = 20
birds-speed = 1.5
birds-force = 0.2
birds-distance = 25
birds-separation = 10
birds-tolerance = 5
birds-border = 5
birds-prim0 = OpenSimBirds0: 01abef79-7fb2-4c8d-831e-62ce1ce878f1 :
birds-prim1 = OpenSimBirds1: af85996d-af4d-4dda-bc89-721c51e09d0c :
```

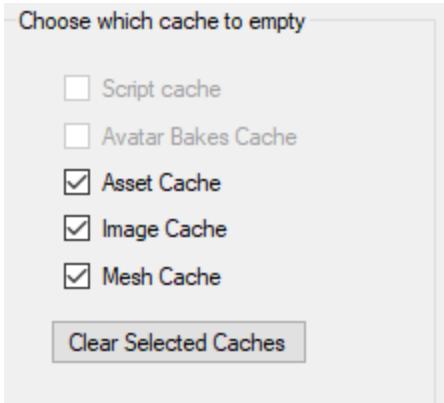
## Links:

<https://github.com/JakDaniels/OpenSimBirds>

## CACHE DELETION

Opensimulator has many caches of data to improve performance. You may optionally clear these caches. The system will refresh them on the next startup. This will slow your system down dramatically on the next boot as it must re-fetch all assets the next time it starts.

Opensim must be stopped to clear script and the Avatar Bake caches.



**Script cache:** Clearing the script cache is only necessary after an update to Opensim binaries. DreamGrid will not delete the ".STATE" files so your virtual pets will not die.

**Avatars bakes cache:** this folder holds the various baked skin layers.

**Asset cache:** holds the assets (mesh, prims, textures) and is typically exceptionally large. It automatically flushes itself every 48 hours.

**Image cache:** holds the images and is typically exceptionally large.

**Mesh cache:** holds mesh pieces.

## FLOTSAM CACHE SETTINGS

OpenSimulator has an asset cache that stores the assets retrieved from an asset service. This reduces the load on a possibly remote asset service and improves OpenSimulator responsiveness.

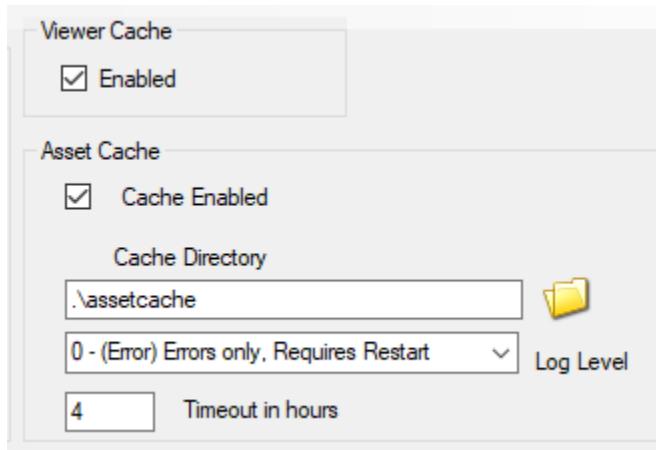
**Viewer cache** is for modern viewers. If you use old viewers you may have issues. Turn this off for old viewers.

**Cache Enabled:** The cache should always be enabled.

**Cache Directory** can be moved to another disk. It is best practice to save all large folders such as this cache to another disk.

**Log level** is for debugging.

**Timeout in Hours** is how you set how much disk it uses. Lower numbers = less disk space. The larger the number, the better performance you will get. Typical numbers are 24 hours for small grids, a few hours for large grids.



## FLOTSAM ASSET CACHE

Note: You must run the Flotsam asset cache if you are running the FSassets file system database.

The Flotsam asset cache stores assets on disk and in memory.

At the moment, the amount of memory or filesystem storage used by the cache can only be limited via manual actions (wiping all or part of cached assets from the filesystem), by console commands (eg "fcache clear") or by timeout settings (eg FileCacheTimeout = 1 to automatically remove cache files not accessed for 1 hours).

### General principles

When OpenSimulator requires an asset (eg in response to a viewer request for a notecard), then it first asks the cache for this data. If the data is not found in the cache, then it asks the grid asset service (or possibly a foreign asset service in the case of Hypergrid). If the asset is found, then it is both stored in the cache and returned to the user.

If an asset is uploaded to OpenSimulator (eg by the viewer uploading an animation), then the asset is immediately both kept in cache (if there is room and the asset is not temporary) and sent to the asset service (if the asset is not temporary).

Therefore, at any point you can wipe any temporary data stored by the asset cache (eg on the filesystem), since the next request for that asset will simply query the asset service as the asset will not be found in cache.

## RUNNING DREAMGRID ON A SERVER

One of the difficulties in moving to a server such as Contabo.com is moving the files to it.

The big problem is mysql\data\ibdata - which is literally your grid and must be moved.

There are many ways to do this: Google drive, dropbox, ftp, but most of those require \$\$ or are very slow. A very good way is to use Windows SMB file sharing.

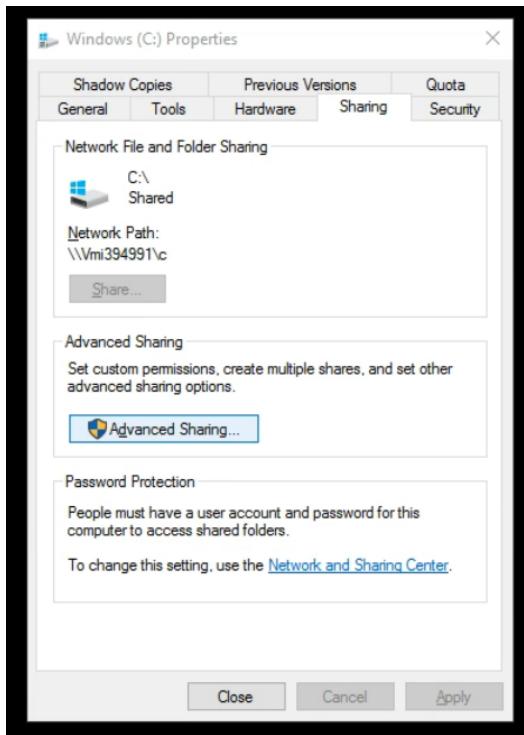
The remote server can appear as a local disk, such as X: or Z: with SMB file shares so you can copy and paste files. This makes it trivially easy to make backups and move OARs and backups off Contabo and store them at your home.

## LOG INTO YOUR SERVER

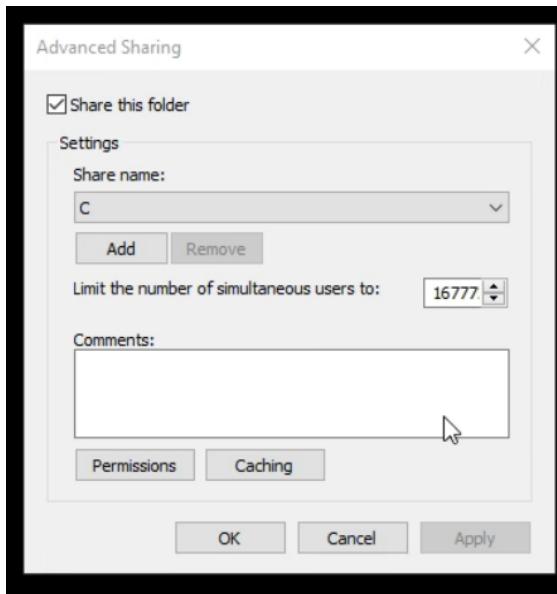
Log in with remote desktop or VNC as an Administrator. You need a strong password for your account! Don't skimp on this step, as your server is exposed to the internet in an intimate way, and it will be probed constantly for weaknesses.

Now choose a folder. The safest way to share is by making a shared folder, such as your AUTOBACKUP folder. If someone guesses your password, then all they get are backups. And you can share the entire drive, too.

Right click a folder or C: and select Properties.

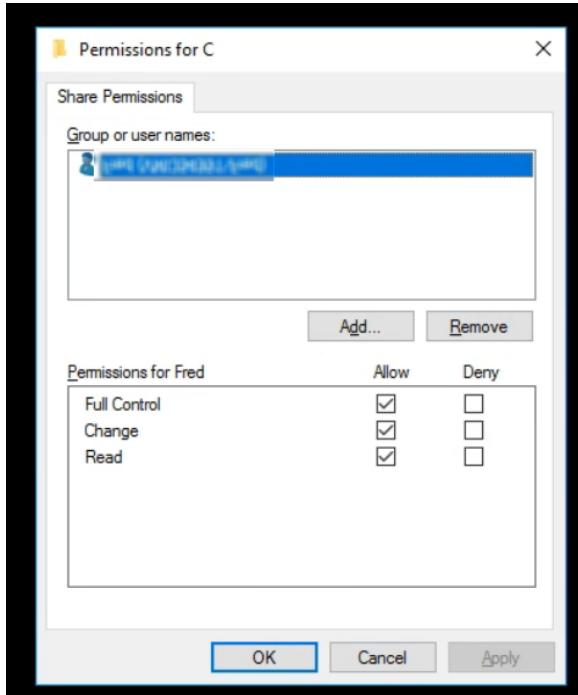


Click Advanced Sharing:

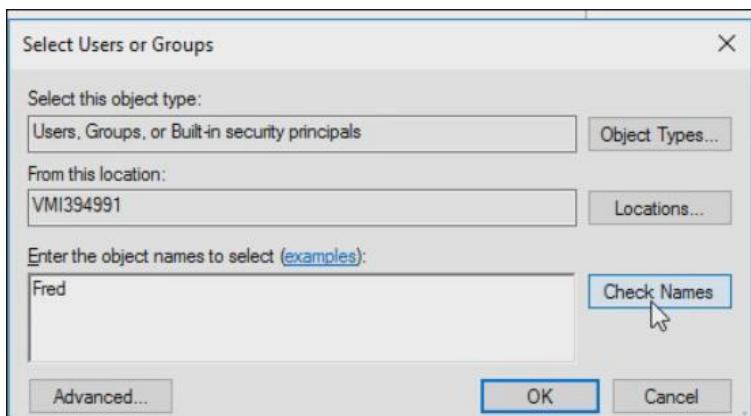


Click Add and give it a name, such as "C", and check "Share this folder"

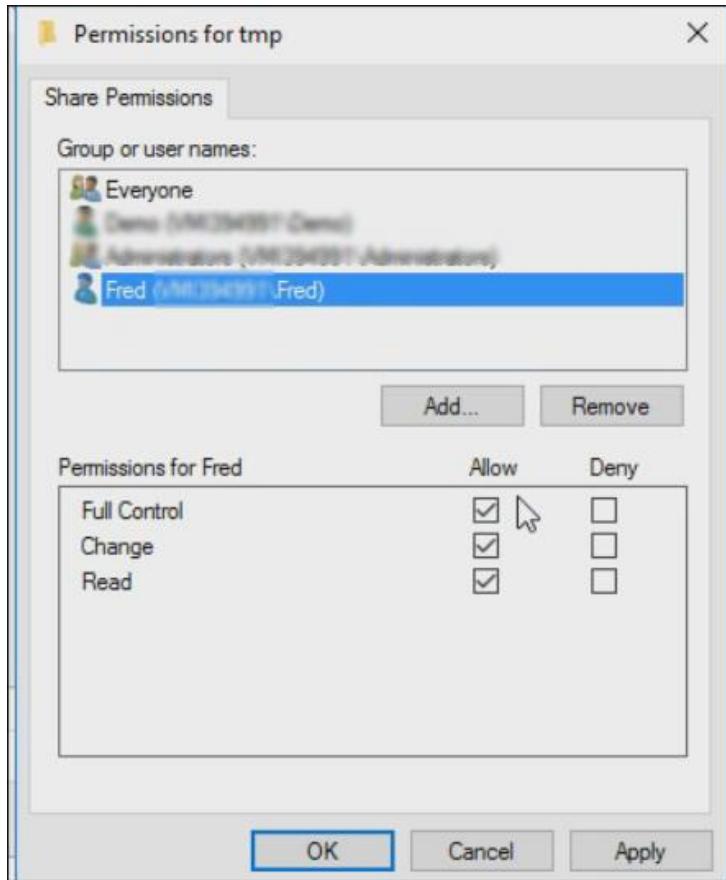
Click Permissions:



Remove the "Everyone" group and click Add and type in your login name.



Press OK

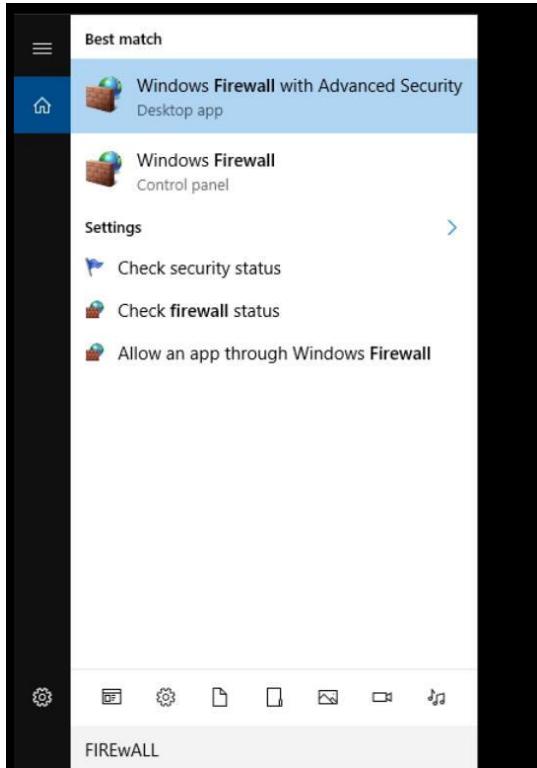


Check "Full control" so all three permissions are lit up.

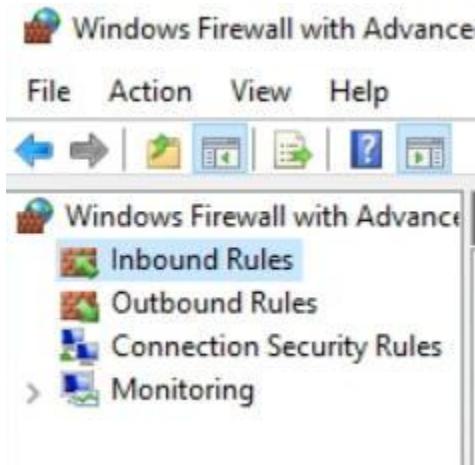
Click OK

#### FIREWALL RULES

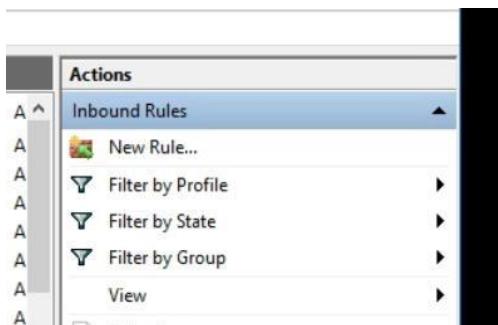
You need to enable some ports in Windows Server. Go to Control panel or search for Advanced Firewall.



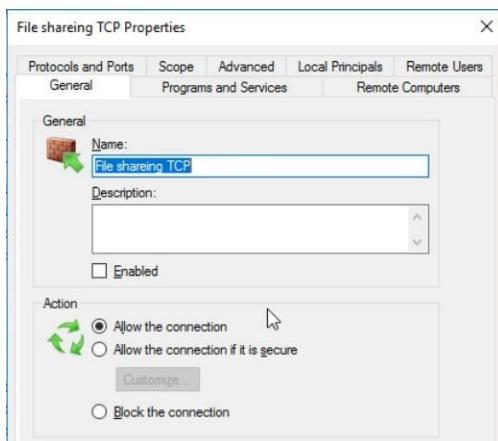
In the firewall screen, click Inbound Rules



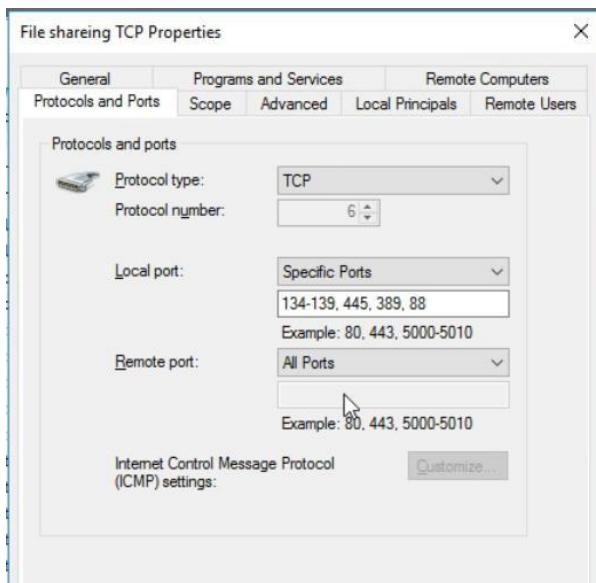
On the right side, click New Rule



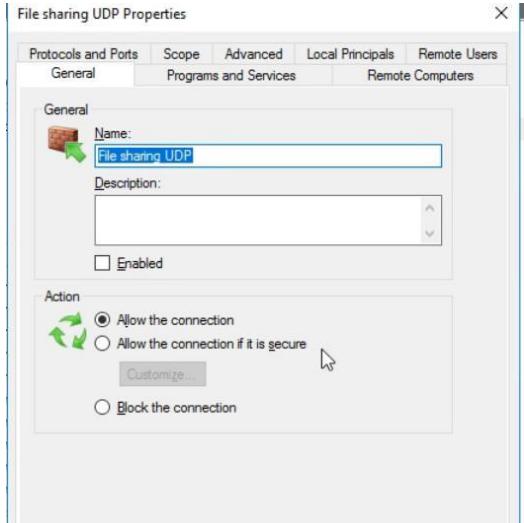
Give it a name such as "File Sharing TCP"



In Protocols and Ports Select TCP and add the following ports: 134-139, 445, 389, 88

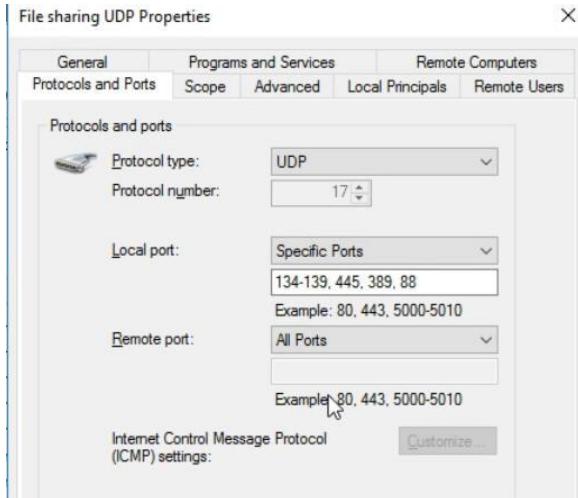


Repeat the above steps for a name such as "File Sharing UDP"



Repeat the step "Protocols and Ports" Select UDP and add the following ports:

134-139, 445, 389, 88



Click Apply

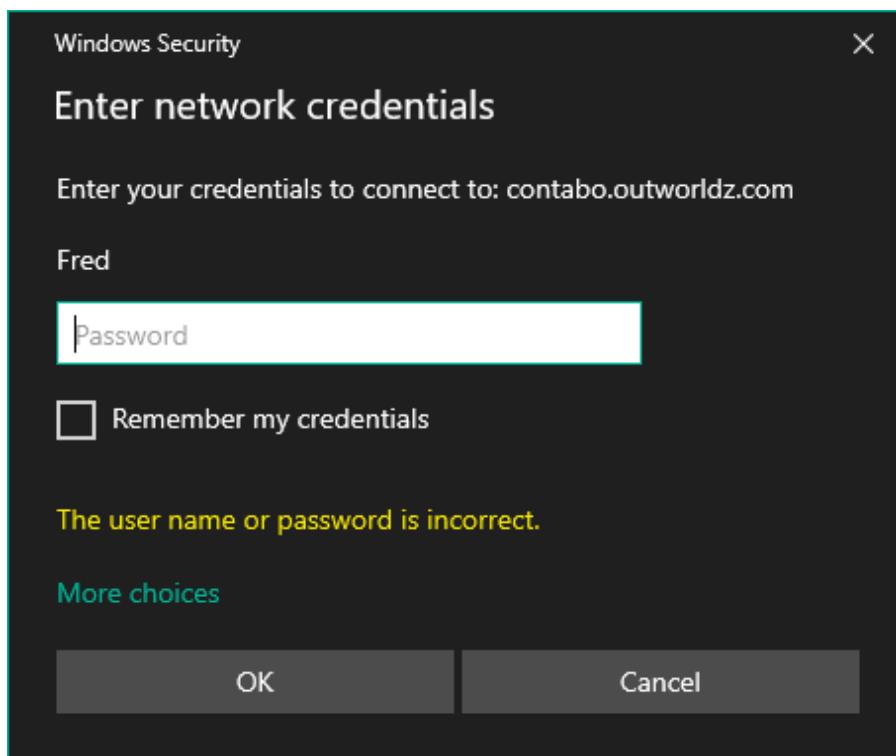
## SHARING FILES TO AND FROM YOUR SERVER

To connect, you can use the IP, DNS name, or Outworldz.net name. This is the same name you connect to Contabo in VNC or Remote Desktop,

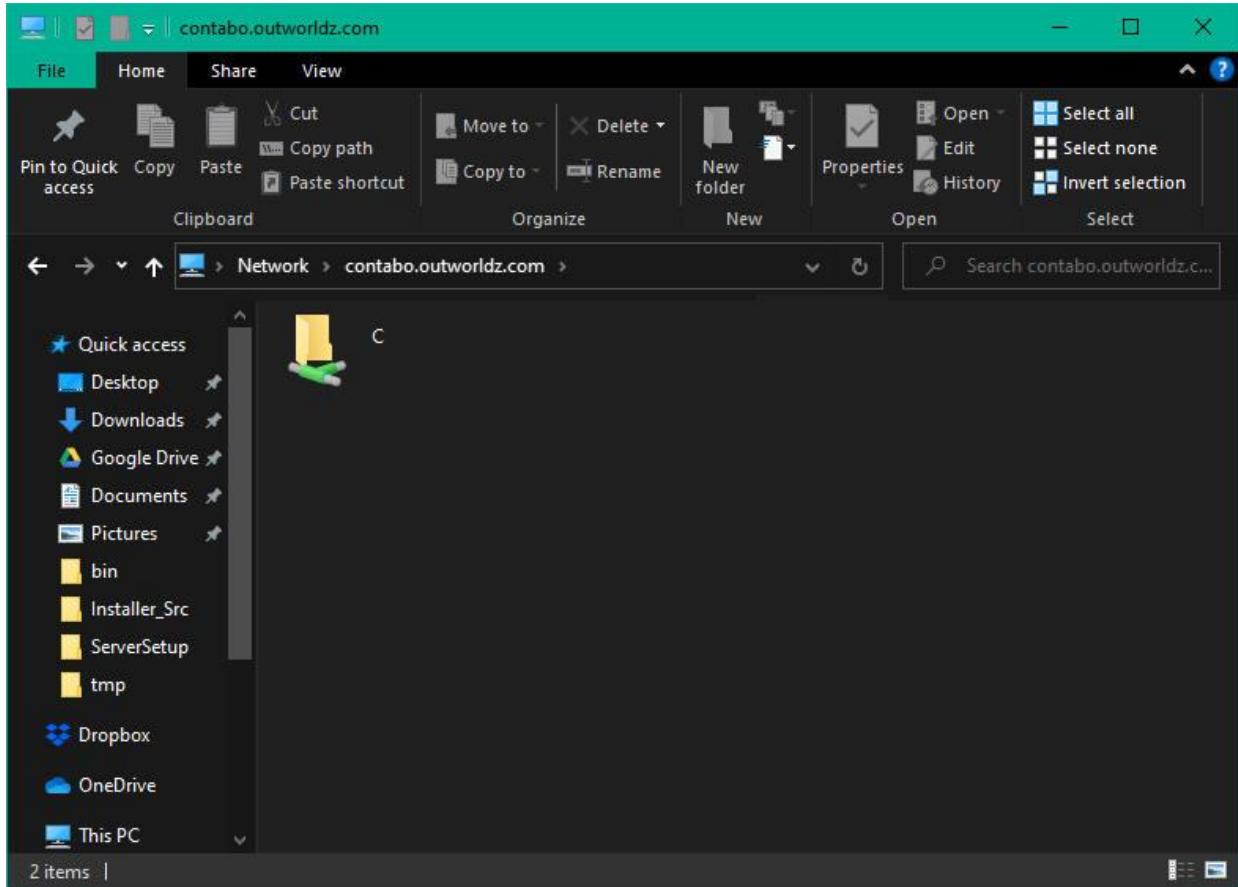
Go to File Explorer in Windows at your Home PC. You can get there by pressing the Windows Logo key and the 'e' key at the same time.

Type two back slashes \\ in the address bar and then the name of your server:

You should get a password prompt:



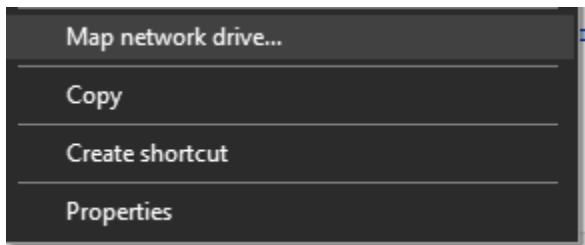
Enter your password and you should see the share name that you set up.



You can use this name and path as if it is local to your PC and drag and drop files to it. Or Copy and Paste.

You can also Map a drive letter to it.

Right click the folder and select "Map Network Drive"



Choose a drive letter and click Apply

Now you can simply go to the drive letter and access your server.

## BACKUPS:

Now that your server is set up for file access, you can use programs such as robocopy (free, built into windows), and paid backup programs such as SyncBack to move or copy your grid to your home PC on a regular basis.

Example: I created map drive as X: to a folder on the server and added a batch file named Backup.bat.

I then ran this from the server as X:/backup.bat and it copied my Server's [X:\tmp](#) folder to my home PC [C:\tmp](#) folder.

You can now use robocopy to backup your entire grid, or the Backup folder with one simple command "X:/Backup" by changing the folder names in the batch file.

```
PS X:\> .\Backup.bat

X:\>robocopy X:\tmp c:\tmp /e

-----
ROBOCOPY :: Robust File Copy for Windows
-----

Started : Monday, October 19, 2020 11:38:27 PM
Source : X:\tmp\
Dest : c:\tmp\
Files : *.*

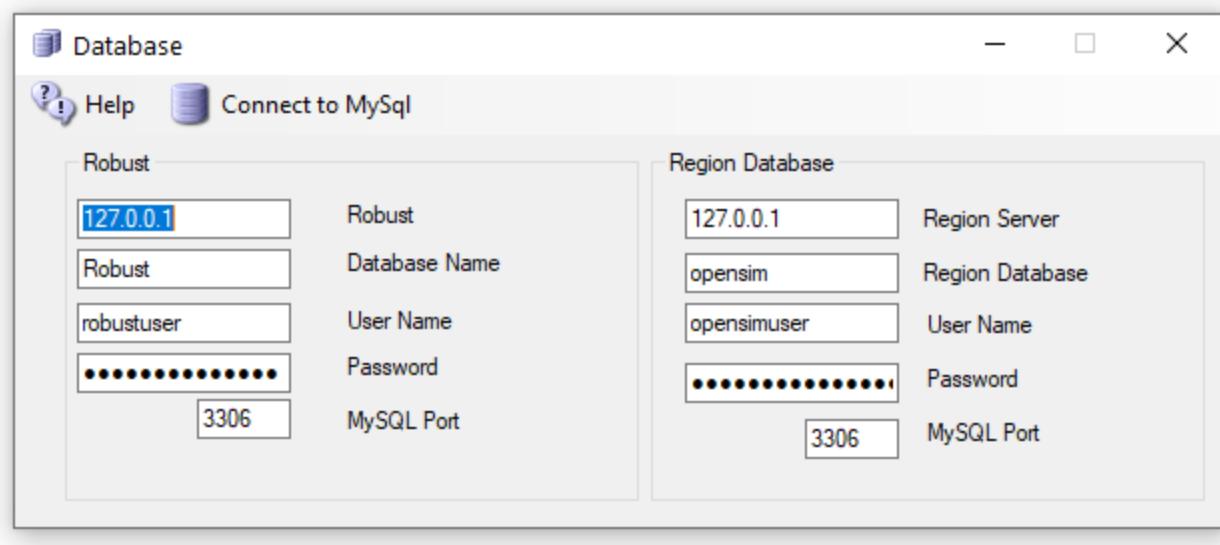
Options : *.* /S /E /DCOPY:DA /COPY:DAT /R:1000000 /W:30

-----
0 X:\tmp\
New Dir 0 X:\tmp\A\

-----
Total Copied Skipped Mismatch FAILED Extras
Dirs : 2 1 1 0 0 1
Files : 0 0 0 0 0 8
Bytes : 0 0 0 0 0 27.63 m
Times : 0:00:00 0:00:00 0:00:00 0:00:00
Ended : Monday, October 19, 2020 11:38:28 PM
PS X:\>
```

## DATABASE SETTINGS

Did MySQL crash? See section [Crashes](#).



### Do not change any of these settings without knowing what you are doing!

Any change here must match complicated hand-made changes in MySQL! See the bottom of this help section for more details.

There are two databases in DreamGrid: Robust is the login and inventory database. Each region also uses a separate Opensim database for storing what is in region.

Database root password is blank. This is safe as it only listens on localhost, which is your server.

#### ROBUST DATABASE:

- **Robust Server:** should always be 127.0.0.1. This is the Server that runs Robust (itself). It can be the IP address of a different server running MySQL.

Default: 127.0.0.1

- **Robust name:** The name of the Robust database.

Default: *robust*

- **User Name:** The login name 'robustuser'@localhost'.

Default: *robustuser*

- **Password:** The password for Robust.

- Default: *robustpassword*

- **MySQL Port:** The TCP/IP port that both databases use.

Default = 3306. You can set this to 3307, 3308 or 3309 to not interfere with the Other MySQL's that may be running.

- **FSAssets:** You can select the FSAssets button to set up a File System As Assets Database. This is recommended only for large grids, with hundreds of Gigabyte sized databases.

#### LOCAL REGION DATABASE:

- **DB name:** The name of the region database.  
default: *opensim*
- **User Name:** The login name 'opensimuser'@localhost'.  
default: *opensimuser*
- **Password:** The password for opensim region database.  
default = *opensimpassword*
- **MySQL Port:** The TCP/IP port that both databases use.

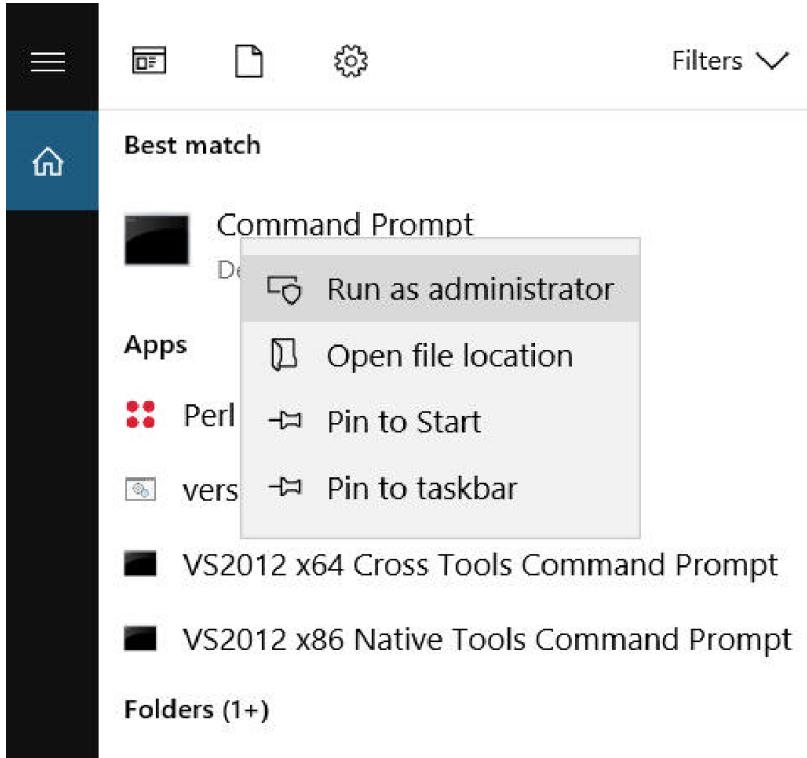
Default = 3309 to not interfere with the normal MySQL Port of 3306

If you want to alter the username and password to either database, you must use the MySQL.exe program in a DOS box.

```
cd Outworldzfiles\mysql\bin
mysql -u root
use opensim;
create user 'anewopensimuser'@'localhost' identified by 'opensimpassword';
grant all on opensim.* to 'anewopensimuser'@'localhost';
use robust;
create user 'anewrobustuser'@'localhost' identified by 'robustpassword';
grant all on robust.* to 'anewrobustuser'@'localhost';
quit;
```

#### RUNNING MySQL AS A SERVICE

DreamGrid will detect any running MySQL using the same port. You can install MySQL as a Windows service. There is a batch file "InstallAsAService.bat" in MySQL\bin to set this up. MySQL will then start and stop safely with Windows. This batch file must be run once, as an Administrator. You type "CMD" in the search box, and then right click the Command Prompt and select "Run as Administrator".



Use that DOS box to run **InstallAsAService.bat**. Then type in 'Services.msc', and use it to start MySQL, or type in 'net start MySQL'<enter>.

You can verify MySQL is running by typing 'mysql - u root<enter>'. If you get a MySQL prompt, it is running as a service. Then type quit; with the semicolon and enter.

You should also set the service to restart so MySQL restarts on any crash. Windows knows about services and will send signals to MySQL to shut itself off gracefully. The only danger is that power fails and you corrupt the database. If you are serious about running a grid, then a UPS is necessary.

#### MySQL CRASHES:

Your MySQL database may be crashed. Here is a way to recover and start MYSQL manually.

Navigate to the**Outworldzfiles\mysql\bin** folder.

Then double-click "StartManually.bat"

Any error message it prints may be helpful. If the DOS window closes, a MySQL LOG file will be saved in OutworldzFiles\mysql\data as a \*.err file. That may give you a clue as to what to do.

#### MY DATABASE STILL DID NOT START!

Try running**Outworldzfiles\mysql\bin\Repair\_ISAM.bat**.

Then double-click "StartManually.bat". The DOS window that appears should 'stick' open.

Run Task manager by typing Ctrl-Shift-ESC.

Look for *mysqld.exe*. Wait for the CPU usage to go to 0 on *mysqld.exe*. This may take a long time as MySQL is rebuilding the database. It could take an hour or more, depending upon the size and your disk and CPU speed.

Double click *CheckandRepair.bat* to run diagnostics.

If errors appear, answer any questions with a 'Y'. This will take a long time as MySQL is repairing the database.

Once the Check and Repair is finished, double-click *Mysql\bin\StopMySQL.bat*

The DOS box that first appeared should now close. Your database has been recovered and it is safe to start DreamGrid.

**If you still have issues**, delete the file *MySQL\Data\ib\_logfile0* and *ib\_logfile1*. Do not delete *ibdata1*! Then repeat the above sequence.

If I had really deep issues with a database and it was unrecoverable, I would try the last copied one, then the SQL, then an OAR, and the very last thing I would try is an OAR/IAR restore. So far I have recovered at least a dozen databases for people. One developed a bad bit which took about a week to ftp, to develop a fix for and a simple query to repair.

Also have fixed a crashed "primititems" table that has reoccurred on one grid. You log in to MySQL with the command '*mysql -u root*' and type in:

```
use opensim;  
repair table primititems;  
quit;
```

**Please do not give up if your database will not start! Contact me at [red@outworldz.com](mailto:red@outworldz.com) and I will see what I can do. I have not yet lost a database.**

#### STARTING OVER WITH A BLANK DATABASE

You can wipe ALL data out. If you do this, you must re-enter all accounts and recreate your system from OAR and IAR files. This WILL LOSE ALL DATA.

I recommend you make a backup of the *MySQL\Data* folder first.

I have not yet 'lost' a database, and I have seen dozens of them crash in oddball ways. Please contact me at [red@outworldz.com](mailto:red@outworldz.com) if you have questions or need more help in recovering a database. The largest was 70 Gigabytes which took four days just to get a copy sent to me. It was fixed in a few hours. The problem was to a single bad character in a UUID. So please do not delete it unless you really, really want to start over!

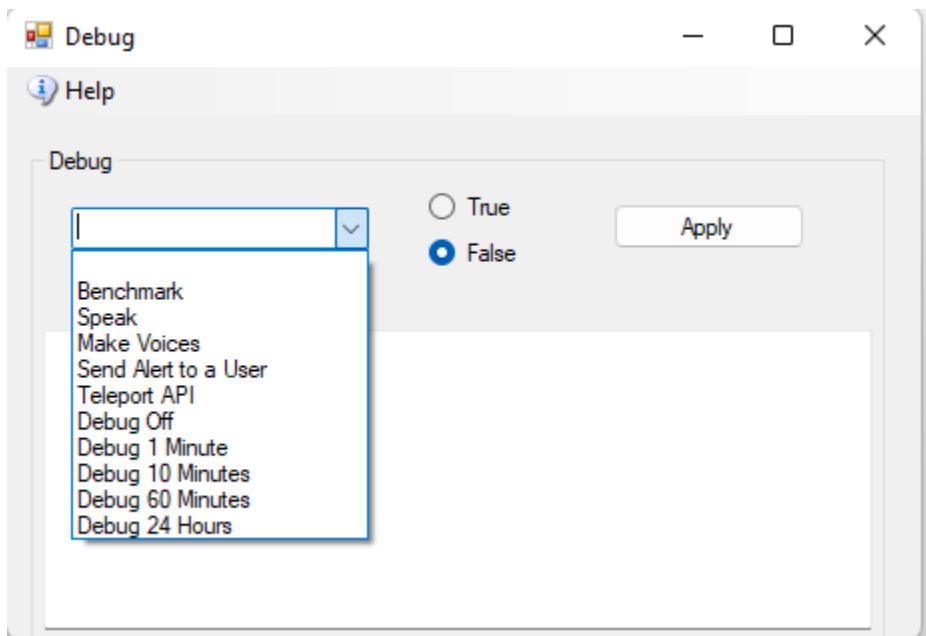
If you MUST wipe out the database and start over, delete the folder *MySQL\data*. Then extract the contents of the file *Blank-Mysql-Data-folder.zip* to make a new *MySQL\Data* folder.

This will make it start over at the very beginning. The database should start up now. You must go to Robust; type *create user<enter>* and re-enter your Avatar name and password. You can then re-enter your estate information in each DOS box for Each region.

You can restore the database if you have a .SQL backup. Or use OARs and IARs.

## DEBUG

The Help=> Debug screen has debugging tools. The “True” radio button enables the function, and “False” disables the function. The function occurs when you press Apply is True is set



**Teleport API** – Prompts for an Avatar name, locates the person, and send them to a region. Part of Smart Boot debugging effort.

**Debug (off, 1 Minute ....)** – The system prints debug stats on each region every hour. You can speed this up or slow it down. Requires a region restart. The new setting is saved and is sticky across reboots. Use it to get rapid glances at Opensim region performance.

Debug LandMaker – Requires that the Smart Boot and Endless land and sea be enabled. Creates multiple avatars that go to and from regions to create a large area of auto generated land. USE WITH CAUTION, for debug only!

## DIVA WEB CONTROL PANEL

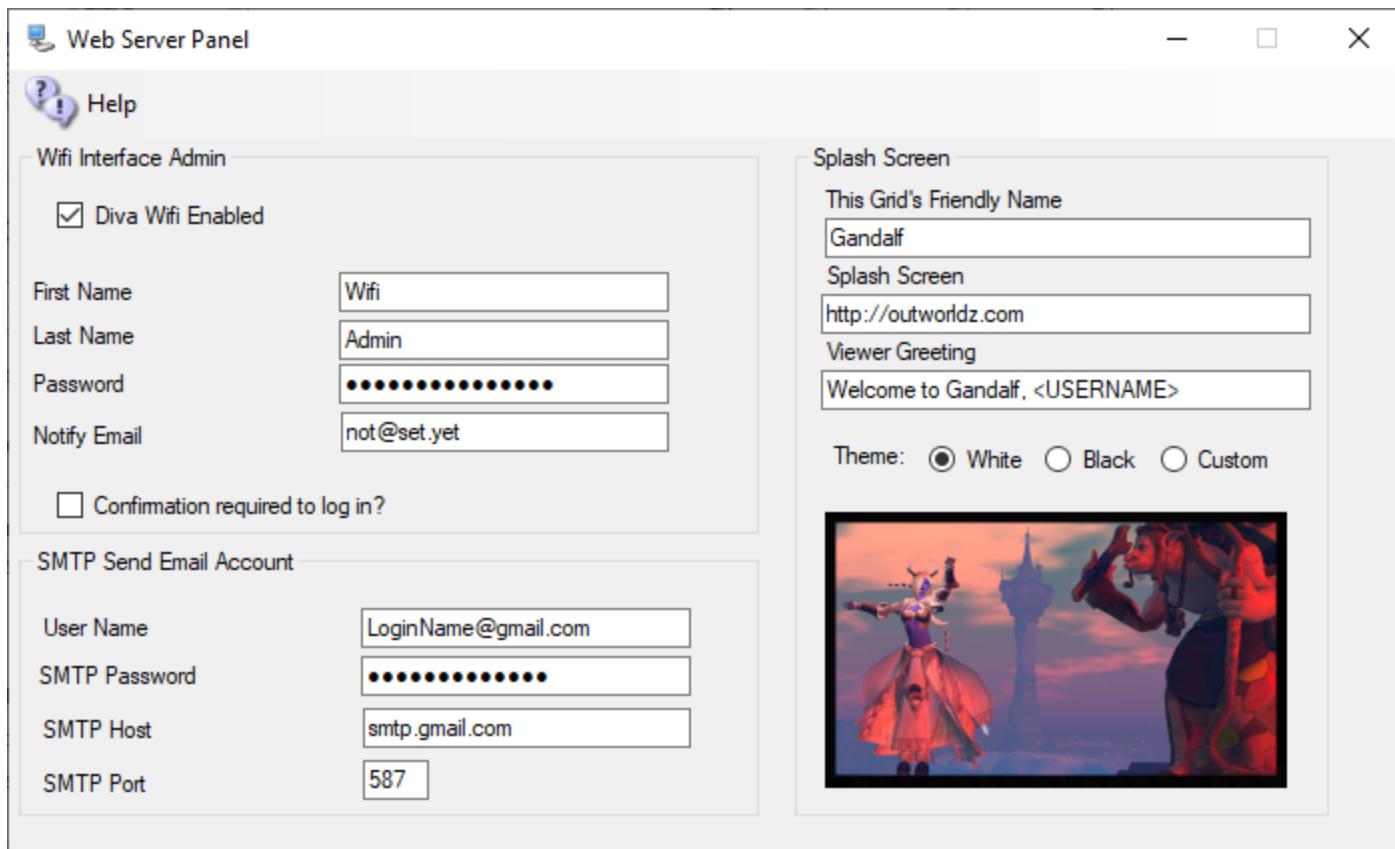
The Management Web page is at <http://127.0.0.1:8002> if the checkbox is enabled and Robust is running.

For other users, it will be <http://YourDomainName:8002>, where YourDomainName is your Public, Internet-facing IP or DNS name.

The features of Wifi are:

- Account creation, optionally controlled by the Wifi Admin Account
- Configurable default avatars for new accounts
- Account updates by both users and administrator
- Account deletion by administrator
- Password recovery via email
- Simple user inventory management

You can change many of the parameters of Wifi in this panel:



There are three sections that can be modified:

- **Wifi Interface Admin:** A super-user that administers the system. This can be you. It comes with Wifi Admin as a default login.
- **Splash Screen:** Things that affect the page that shows in the viewer window.
- **SMTP Email:** Settings to send email for things such as password changes and confirmation off emails.

The system automatically makes several accounts the first time. One of these is "Wifi Admin". This user has special rights in the web panel. It can administer all other accounts, change passwords, enable and disable, or delete and approve them.

A random password is created at startup. You may change it. As the Hypergrid exposes this login page to the Internet, please choose a strong password.

You must already have a user with levels set to 100 or higher to change the name from Wifi Admin. You can add another user and set it to that elevated level too.

Wifi Interface Admin

Diva Wifi Enabled

First Name	Wifi
Last Name	Admin
Password	*****
Notify Email	not@set.yet

Confirmation required to log in?

## WIFI ADMIN

There are three Opensim users made at startup. One is for the grid to use. GRID MANAGER is the main user If you mess with it your grid will die. It does things that require a User account to do, such as send a user an IM.

**Wifi Admin** is used to control users and run the Web page. It can rename, delete, stop, or allow a user on the grid by the web page. The robust console can do all this, but it is arcane and easier to use the web page.

Wifi Admin is created with a random password. Go to settings->Web Page and click the password field. It will show it to you. You can change this password by typing in a new name when Robust is running.

Go to Help-Web Page and it will open your grid Wifi Panel. It is also at <http://localhost:8002>.

Log in as Wifi Admin using that password. and you will see a Manage Accounts section.

Opensim DreamGrid Virtual world

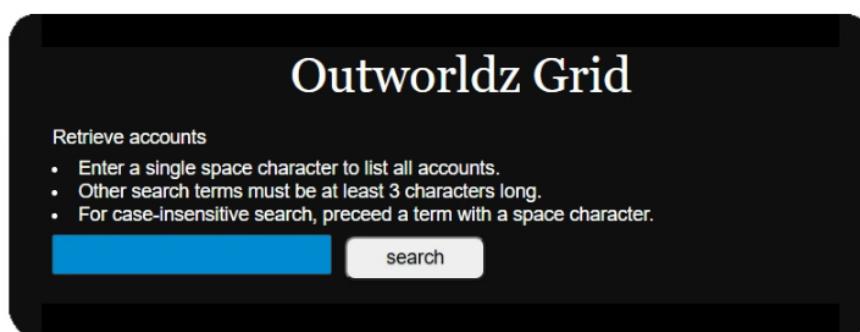


### Main menu

- HOME
- INVENTORY
- LINK REGIONS
- MANAGE ACCOUNTS
- MANAGE GROUPS
- CONSOLE

Go to it, press a space bar in search, and it will show you the three users.

Opensim DreamGrid Virtual world



### Main menu

- HOME
- INVENTORY
- LINK REGIONS
- MANAGE ACCOUNTS
- MANAGE GROUPS
- CONSOLE

## USER LEVELS:

If you set any user's level to -1, they cannot log in.

Level 0, they can log in.

Level 100 is a Wifi Admin.

Level 200 allows them to be a god if Allow User Gods switch is enabled in Setup->Settings->Permissions

## CONFIRMATION REQUIRED TO LOG IN:

Wifi Admin can create new accounts in two manners: uncontrolled and controlled. If you choose to have controlled account creation, every time someone creates an account, the Wifi Admin account will receive an email notifying of such an event (make sure you have the Wifi Admin's email address properly set).

You should then login to Wifi as administrator and choose USER MANAGEMENT. You are presented with a list of all pending accounts, which you can then approve or ignore.

The screenshot shows the 'Pending Users' section of the User Management interface. It includes a search bar, a table with columns for Name, Email, and Date, and links for activation and ignoring users.

**Opensim DreamGrid Virtual world**

**Retrieve accounts**

- Enter a single space character to list all accounts.
- Other search terms must be at least 3 characters long.
- For case-insensitive search, precede a term with a space character.

**search**

**Pending Users**

Name	Email	Date		
*pending* Fred B		2019-02-07 17:26	<a href="#">activate</a>	<a href="#">ignore</a>

If you choose to have uncontrolled account creation, then anyone can create an account in your world without going through your approval.

## SMTP EMAIL

You may optionally set up Simple Mail Transport Protocol to send email for events such as password changes.

SMTP Send Email Account

Username	Gmail for notification
SMTP Password	*****
Smtp Host	smtp.gmail.com
Smtp Port	587

If you use Gmail for SMTP, you will need to enable Less-Secure mail settings at Gmail in your account.

You can find information about this at <https://support.google.com/accounts/answer/6010255>

## THEME

There are three theme colors, Black on White, White on Black, and Custom. The default theme is Black, or the selected theme will be set by DreamGrid into the real WiFiPages folder on startup.

Custom starts out as the White theme. You can modify this theme according to instructions down below.

Click the photo to change it for the theme.

Theme:  White  Black  Custom



## VIEWER SPLASH SCREEN URL:

The Splash screen URL appears on the login screen as a web page. You can use any web page. If you change this URL, you must delete the grid setting in your viewer, and re-add it to get it updated.

If you change this, you must delete and re-add the grid to the viewer.

The Splash Screen URL is shown below.

Splash Screen  
<http://outworldz.com>

Set this to http://(URL of your grid):8002 so they can see the Login Page. It can be any web page.

## GREETING

This message appears when a person logs in.

### Viewer Greeting

Welcome to Gandalf, <USERNAME>

## FRIENDLY NAME

The friendly name appears on the login screen at the top. It is broadcast to viewers as the grid name in the grid Selector Pulldown. If you change this, you must delete and re-add the grid to the viewer.

### This Grid's Friendly Name

Gandalf

## DEFAULT AVATARS:

A "Wifi.ini" file lets you select one of three default appearances for a newly created avatar. In a new environment you must set those avatars up first.

1. Create the avatars with names "Female Avatar", Male Avatar", "Neutral Avatar". and authorize them via the Wifi Admin.
2. Login as each avatar in turn. They will usually appear as a cloud initially and then after a short while rez to appear as "Ruth" wearing four basic body parts, new pants, and new shirt. These parts come directly from the Opensim Library and MUST NOT be worn in your final appearance for the default avatars. You can COPY these library parts into the avatar's inventory if you wish, or create new body parts and clothing, but before you finish you should remove any items that show as "worn" in the Opensim Library as those will not rez on avatars based on these models.
3. Create new body parts and clothing and edit them and/or add any other mesh, clothing, attachments, or HUDs you wish to appear on the avatars.
4. You can extend (or change the avatars names or labels) for the default appearances and/or change the preselected default by altering Wifi.ini.

```
; ;Syntax: AvatarAccount_<AvatarType> = "<FirstName> <LastName>"  
;;(replace spaces in <AvatarType> with underscore)  
AvatarAccount_Female="Female Avatar"  
AvatarAccount_Male="Male Avatar"  
AvatarAccount_Neutral="Neutral Avatar"  
;; Preselection for default avatar in new account registration  
AvatarPreselection="Neutral"
```

5. When you create a new avatar via the Wifi web interface based on these predefined avatars the items worn will appear in the newly created avatar's inventory under Clothes -> Default Avatar <AvatarType>.

## CUSTOMIZING YOUR THEME

You can change the theme with this switch to one of several sets of folders, White, Black, or Custom.

**White theme** consists of two folders:

- Outworldzfiles\Opensim\WifiPages-White
- Outworldzfiles\Opensim\bin\WifiPages-White

**Black theme** consists of two folders:

- Outworldzfiles\Opensim\WifiPages-Black
- Outworldzfiles\Opensim\bin\WifiPages-Black

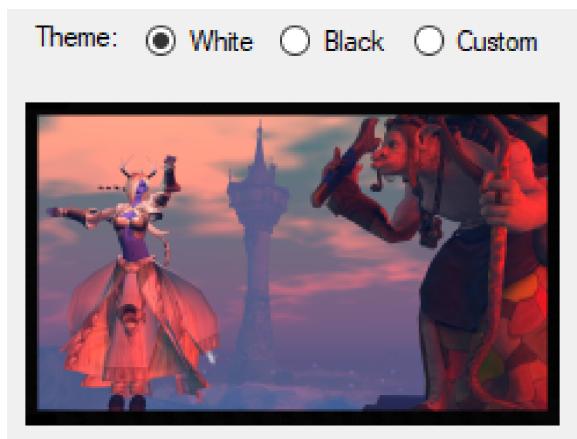
If you want to make modifications, please use a custom theme. Otherwise, your changes to the -Black, -White or WifiPages folders will be over-written in an update.

First copy both the two Black, or the two White folders to the WifiPages-Custom folder next to them. Each set of files goes in these places:

- Opensim/WifiPages-Custom
- Opensim/bin/WifiPages-Custom

The updater will never overwrite these custom pages. If you make changes to the custom pages, they will be set into the Wifi page on startup.

Click the photo to change it for the theme.



#### CHANGING THE HTML

Diva Canto uses some advanced, Opensim-specific code in her Diva pages.

The site starts from Opensim\bin\WifiPages\index.html.

**#includes** There are several include directives that bring in the rest of the web site. Diva uses a series of <!--#include file=header.html --> statements to bring in files from the other folder set in Opensim\WifiPages. Includes in those files then bring in increasingly of the web pages from Opensim\Bin\Wifipages.

**#get** There are several statements that are replaced by server data:

**Users in World:** <!-- #get var=UsersInworld -->

**Regions:** <!-- #get var=RegionsTotal -->

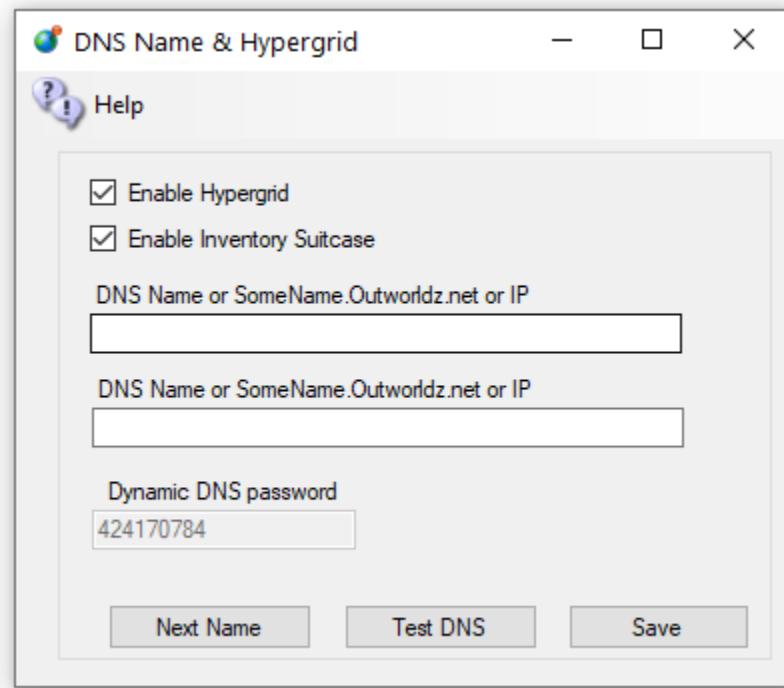
**Total Users:** <!-- #get var=UsersTotal -->

**Active Users last** <!-- #get var=UsersActivePeriod --> **days**

**Active Users:** <!-- #get var=UsersActive -->

## HYPERGRID AND DOMAIN NAME SETUP

Hypergrid requires a DNS name or a Public IP. You can register and use your own domain, or use your routers public IP, or use the Outworldz system's free Dynamic DNS system (DYN DNS).



**DNS name:** For a Free Dynamic DNS name, use the format "somename.outworldz.net" or "Somename.inworldz.net". You can also just make up a name, so choose a name and add ".outworldz.net" or ".inworldz.net". For domain names, the letters, numbers az, digits 0-9 and a dash (-) are the only allowed characters.

You may add an alternate name to be registered in the dynamic DNS system. This is typically used for the WWW function in Apache's web server.

Do not add anything else other than a name, periods '.' and either 'inworldz.net', or '.outworldz.net'.

IP addresses may be used.

If blank, the PC's LAN address will be used. Hypergrid will not be available, but other LAN PC's will be able to connect. This is ideal for schools and other types of private work grids.

## RUNNING ON THE LAN ONLY

When there is no network connection, such as when travelling, use localhost, or 127.0.0.1. These allow only the viewer on the server to connect.

**DynDNS Password:** This is a random number that may be used to keep your DNS Name from being used by others. It is first come, first served. Your password must be copied from one installation to another to use the same DYN DNS name. If you need help with this, or wish to delete your DNS name, please email me at [fred@outworldz.net](mailto:fred@outworldz.net).

**Enable Hypergrid:** If unchecked, the Hypergrid will not be available. The grid will be only a Private Grid, with access possible only by logging into the grid directly.

**Enable My Suitcase:** If checked, Hypergrid travel uses a viewer suitcase. The purpose of the Suitcase is to prevent a foreign "rogue" grid from stealing your inventory while you are visiting. However, any items in your suitcase are exposed to other grids. You can only rez or give items in other grids that are already in your suitcase.

The My Suitcase folder is special: it is the folder tree that receives objects you collect while you are visiting other grids. But now it is even more special: it is the **only** folder tree that is accessible to you (and therefore to the rest of the Internet) while you are traveling.

If you disable the suitcase by unchecking this box, as OsGrid does, you will be able to rez and give items while on other grids from anywhere in your inventory. Items you take or are given will still end up in your suitcase.

**Next Name:** to use the free Outworldz Dynamic DNS, click "Next Name" to get a name. The Dreamgrid Dynamic DNS system will automatically register your PC's ever-changing IP address and keep your sim running.

**Test DNS:** Will register the DNS name and check that it is resolvable. The result should be the Public IP address of your router.

#### TROUBLESHOOTING NETWORK:

1) Go back to running locally. Set the DNS name or IP to 127.0.0.1 and press Save.

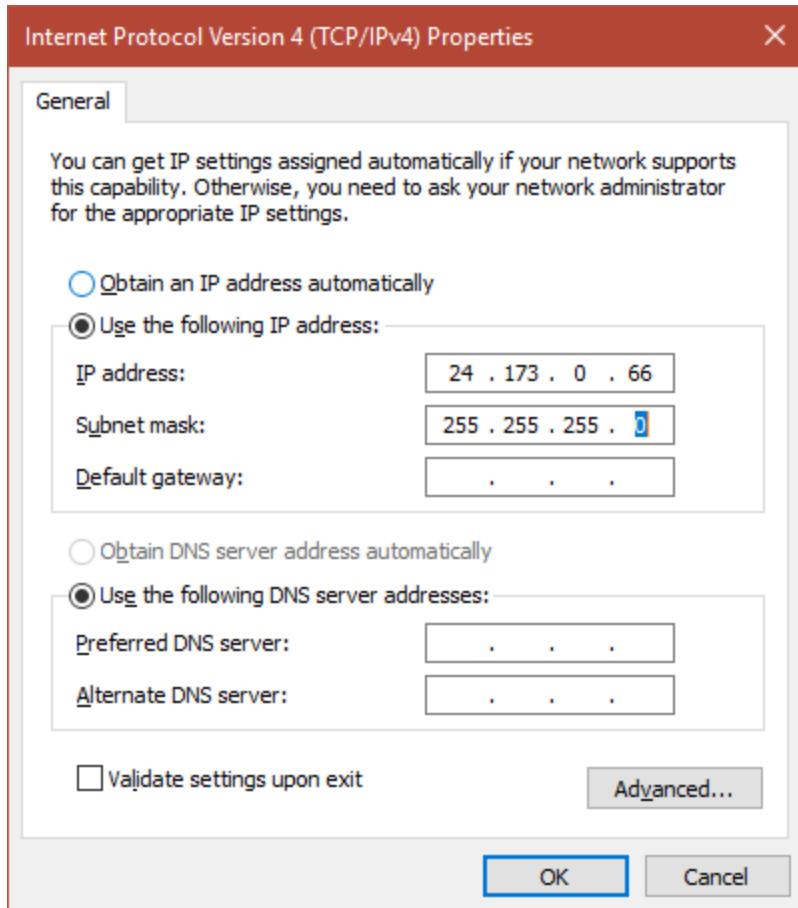
Start the grid up.

2) Now that the grid is running, use <http://www.canyouseeme.org> on port 8002 to verify your router has ports forwarded. If not, work on the router/firewalls so you can see the Opensim Robust service on 8002.

3) Try to get to that same IP address plus :8002 in a web browser from the server. My IP was 24.173.0.66, so I would try <http://24.173.0.66:8002>

If you get no web page, your router does not support loopback.

4) Add the Windows Device driver for loopback. Use the exact same IP address that <http://www.canyouseeme.org> reported. This is what mine looks like



1. Click Start, then type cmd in the search box.
2. In the command prompt, type hdwwiz.exe and press Enter.
3. Click Next.
4. Select Install the hardware that I manually select from a list (Advanced), then click Next.
5. Select Network adapters, then click Next.
6. Select Microsoft as the manufacturer, select Microsoft KM-TEST Loopback Adapter as the adapter for Windows10 , then click Next.
7. Select Next to confirm the installation.
9. Select Finish to complete the installation.

To configure the newly created adapter:

1. Click Start > Control Panel > Network Connections.
- 2,. Select the newly created connection (named Local Area Connection #, where # is its order number).
4. Right-click on the selected connection and choose Properties from the menu.
4. Confirm that Microsoft Loopback Adapter or Microsoft Loopback Adapter # is displayed in the Connect Using: field.
5. If it is not, return to step 2 and retry properties for another adapter.
7. Select Internet Protocol IPV4 and click Properties to open Internet Protocol (TCP/IP) Properties.
8. Select Use the following IP address. Fill in the IP address and Subnet mask fields.

Example: 10.10.10.10, 255.255.255.0 <=====But use the IP address shown by  
<http://www.canyouseeme.org>

9. Click OK to close the Internet Protocol (TCP/IP) Properties.
10. Click OK to close the connection properties.
11. Right click the Microsoft Driver and rename it to just "Loopback". DreamGrid will automatically update the driver if your Public IP changes.

12. You should be able to reach your grid at the IP Address:8002 now. If so, you can now go back to the Hypergrid Setting and choose a DNS name.

LINKS:

<http://www.canyouseeme.org>

## EASY FREE DATABASE

The Easy Free Database is an LSL-scripted database to save and fetch persistent variables in Second Life and OpenSim scripts.

استعمال

<http://outworldz.appspot.com/store?service=<service uuid>&keyfield=<variable name>&datafield=<data to be stored>>

**Example:**

<http://outworldz.appspot.com/store?service=2b307c02-2133-4dba-bcc5-3d8f7db53eee&keyfield=AnimalName&datafield=bunny>

**service uuid:**unique identifier for your application. You can use a different one for each script or share the same identifier across several scripts in order to share data. To generate a random uuid:<http://outworldz.appspot.com/rand>

**keyfield:**variable name or other identifier for your data

**datafield:**data that you want to be stored.

RESPONSE

This will return string OK as the body if successful.

You can get your data back by loading:

<http://outworldz.appspot.com/load?service=<service uuid>&keyfield=<variable name>>

Sample LSL script:

```
// src:  
https://www.hypergridbusiness.com/2012/12/free-database-for-opensim-scripts/  
// Change this to a UUID from http://outworldz.appspot.com/rand  
  
string serviceid = "b1e5e346-b831-47fa-9930-11223456778";  
default  
{  
    touch_start(integer counter)  
    {  
        string URL = "http://outworldz.appspot.com/load?service=" +  
        serviceid + "&keyfield=colors";
```

```

        key httpkey=llHTTPRequest(URL, [], "");

    }

    http_response(key id, integer status, list meta, string body)
    {
        list colors = llParseString2List(body,[",",""],[" "]);
        llSetColor(<llList2Float(colors,0), llList2Float(colors,1),
        llList2Float(colors,2)>,ALL_SIDES);

    }
}

```

## FIREWALL

DreamGrid Automatically adds rules to the Windows firewall for Robust, Opensim, Icecast, and Apache. There is no need to adjust these rules.

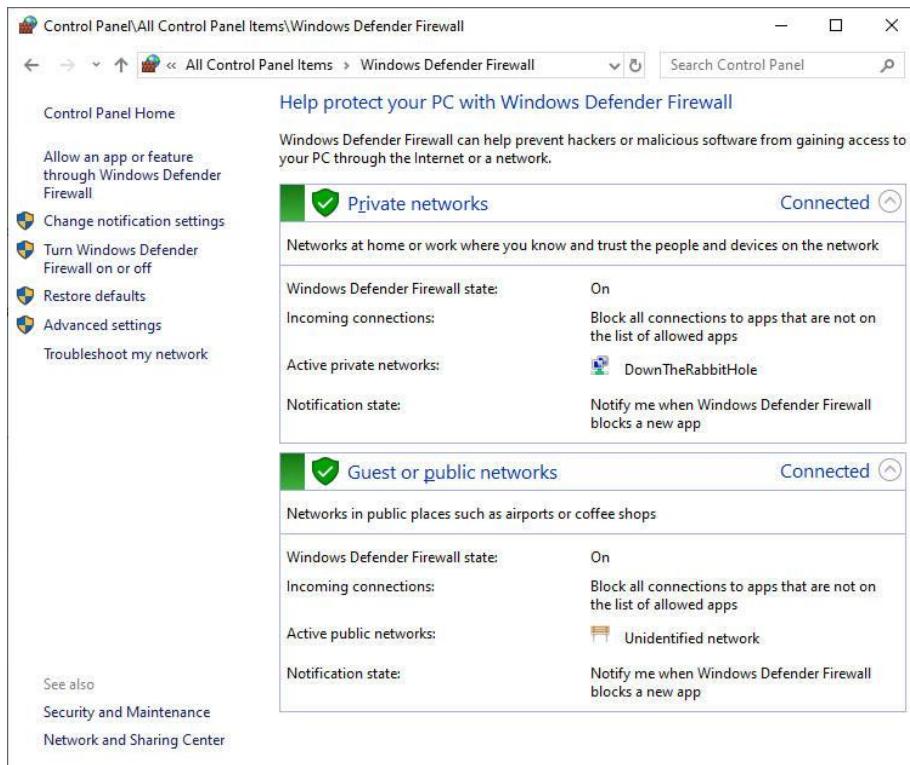
If you accidentally denied the firewall rule request, you will have to locate the NO symbol in the firewall and delete it.

You may want to block certain IP addresses from accessing your system. This manual shows how. **The Banlist Manual shows how to do it with DreamGrid.**

The Windows firewall is automatically opened for TCP and UDP for any ports that DreamGrid needs. It closes those ports if you reduce the number of regions and increases the open port count if you add regions. This also works on Icecast and Apache.

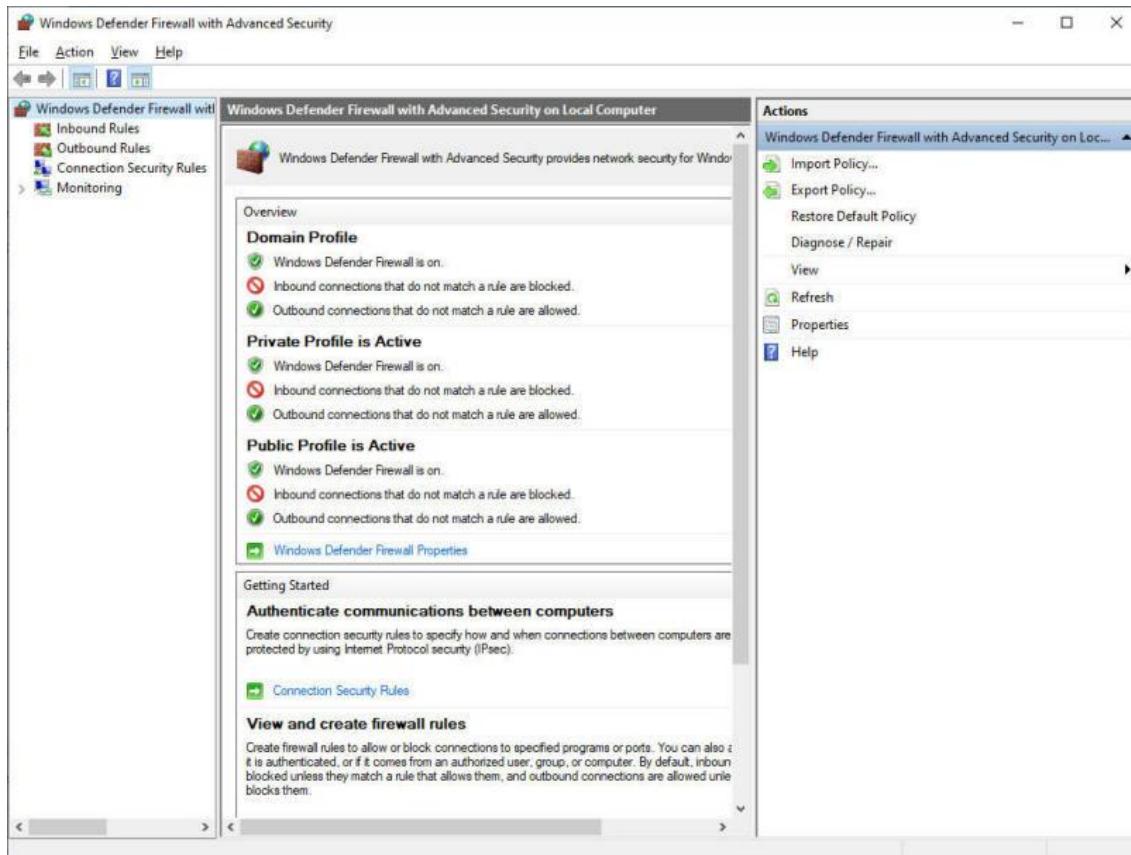
You can use the Windows firewall to block specific IP addresses and ranges of Ip addresses.

Open the windows firewall and click **Advanced Settings** on the upper left side.

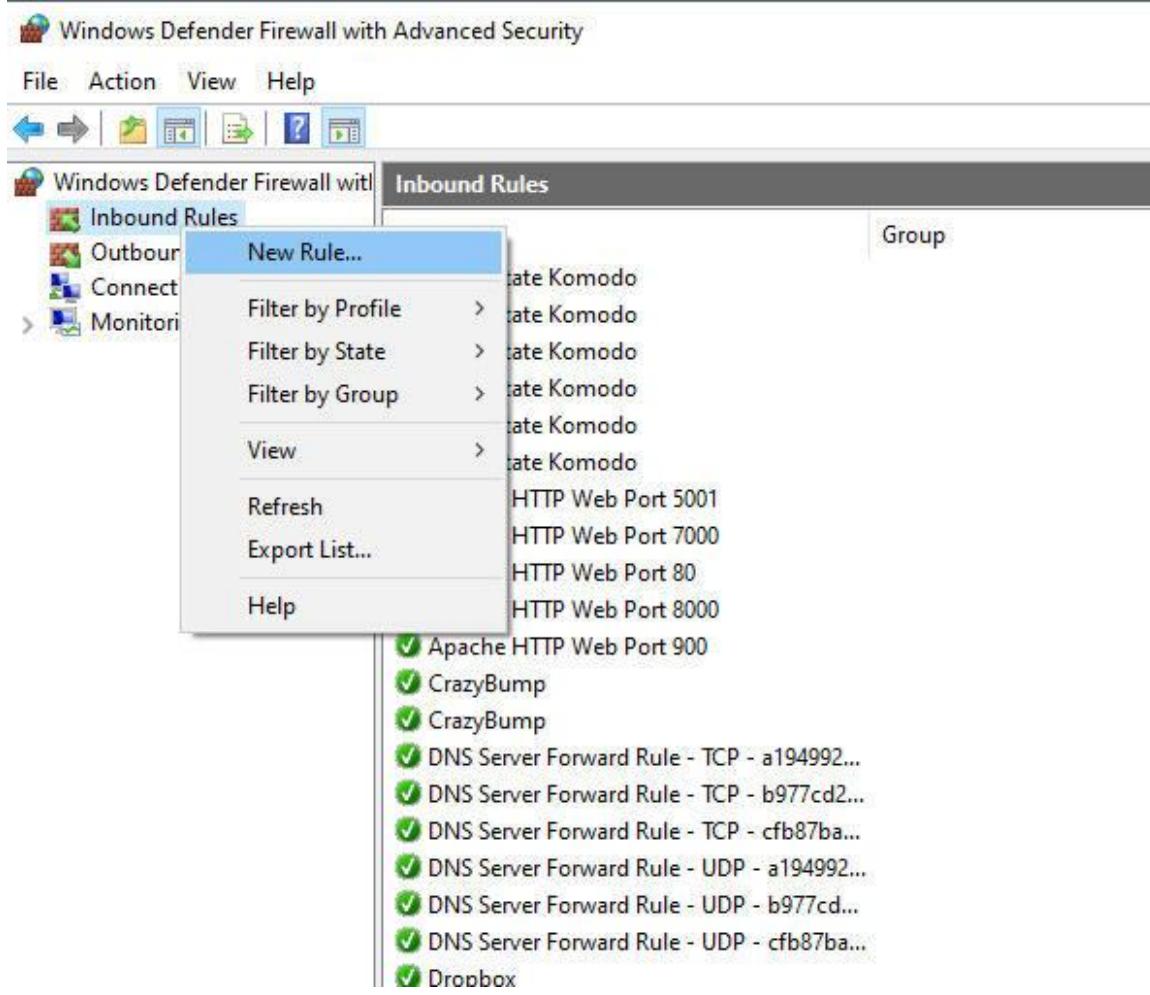




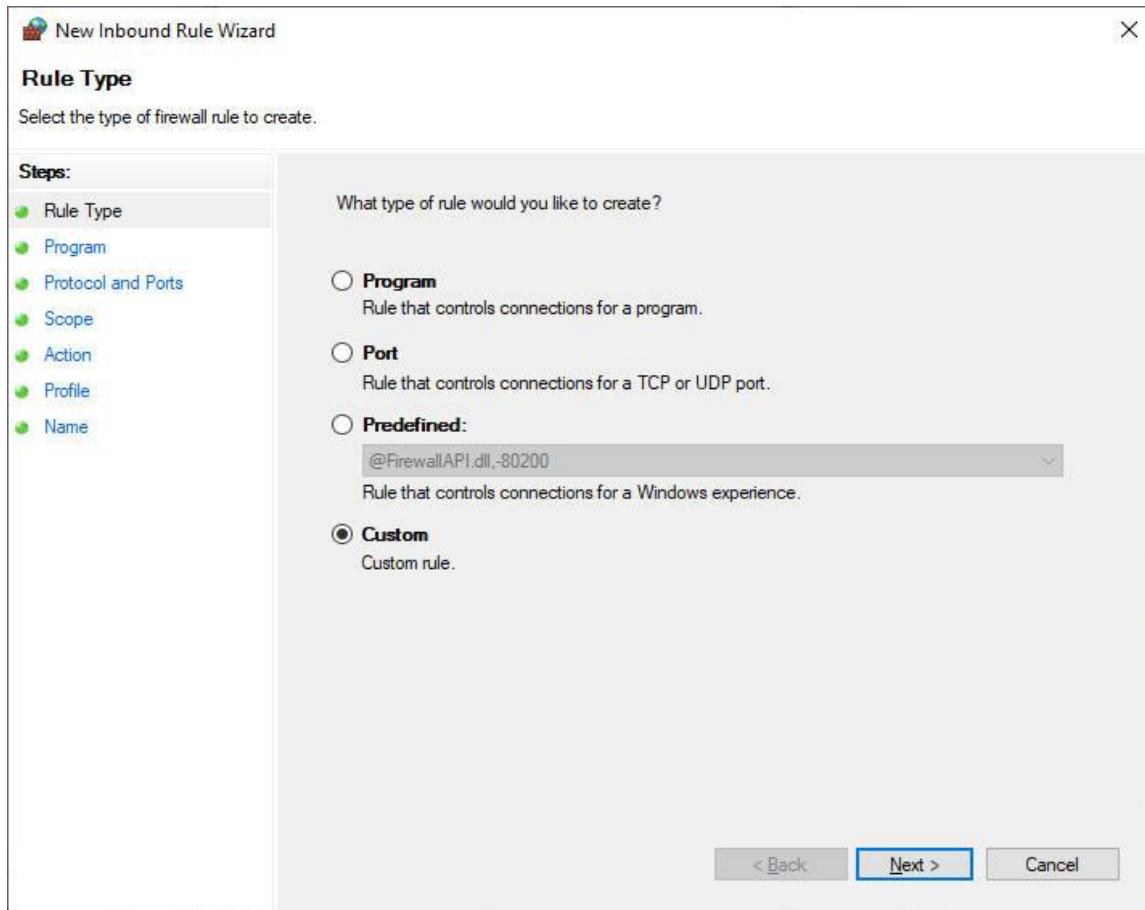
Advanced settings screen:



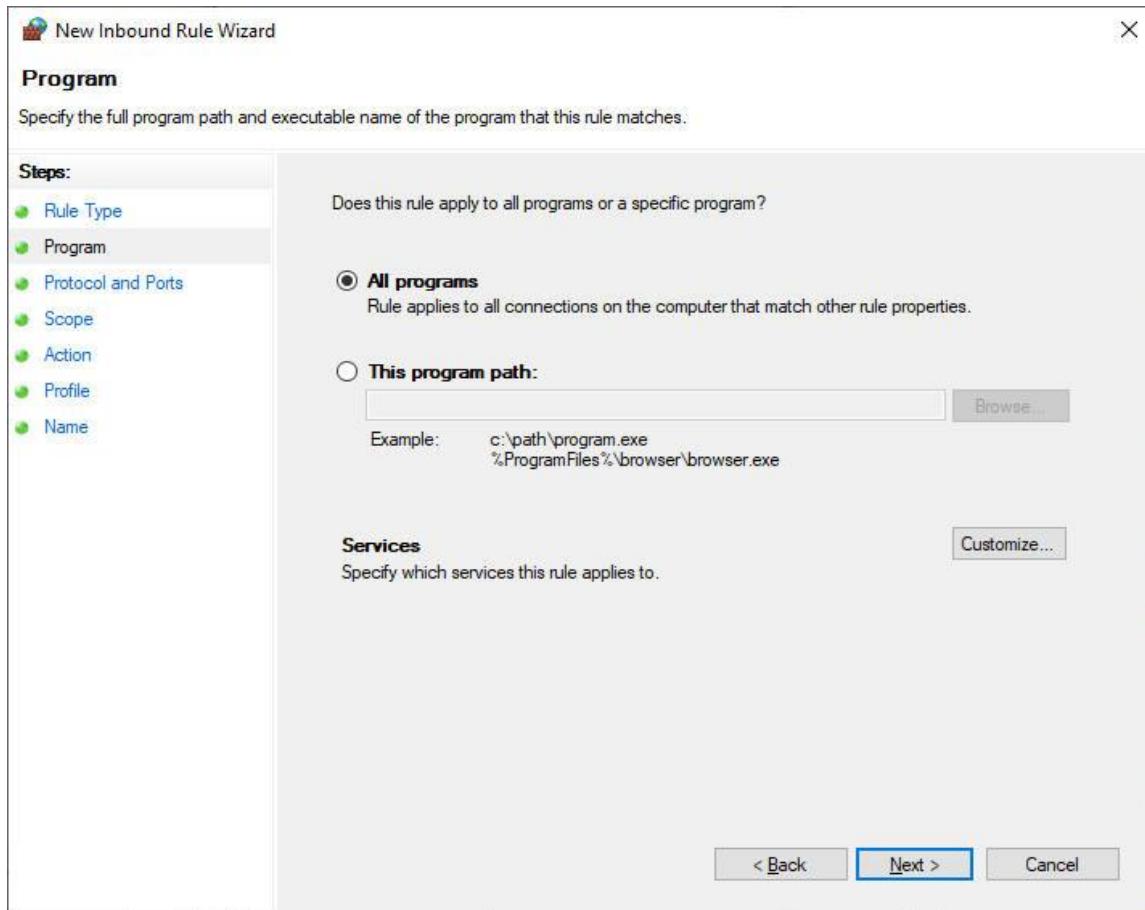
Right click **Inbound Rules** and select **New Rule...**:



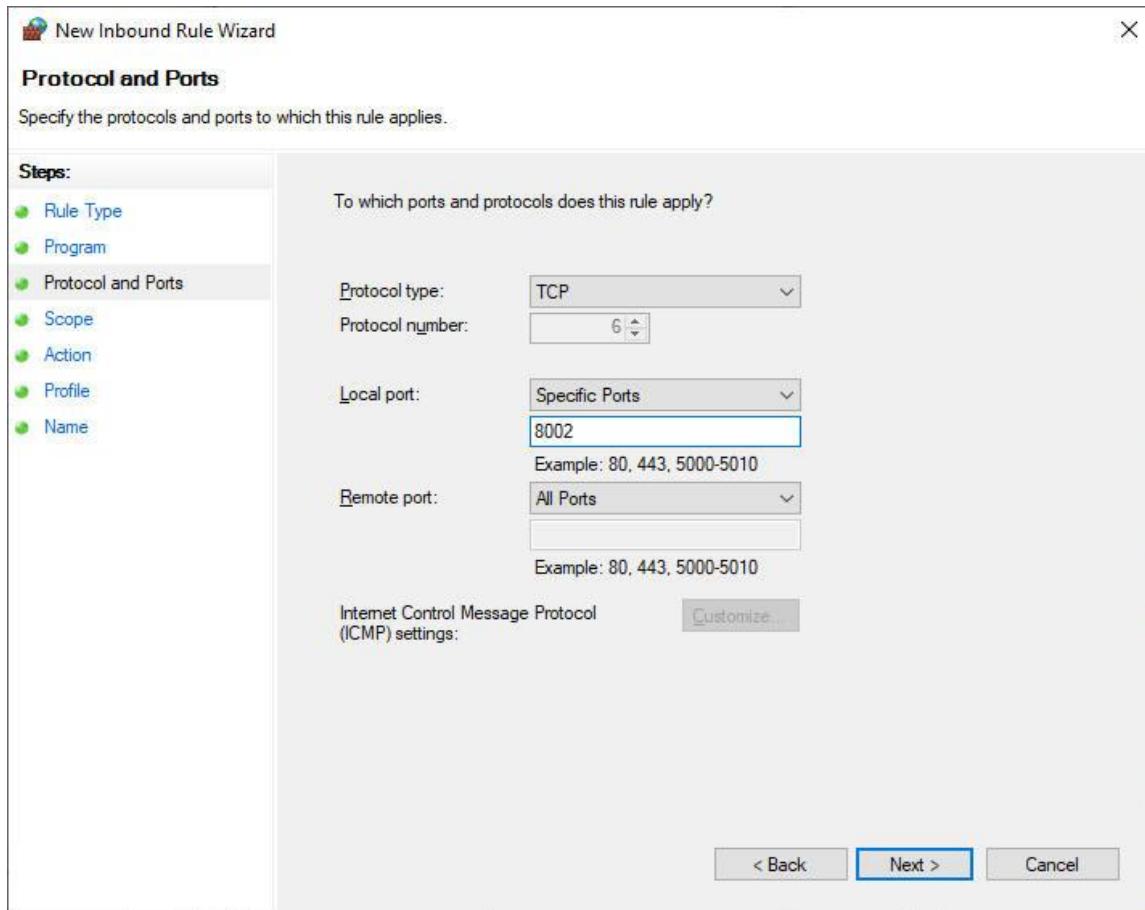
## Select Custom Rule



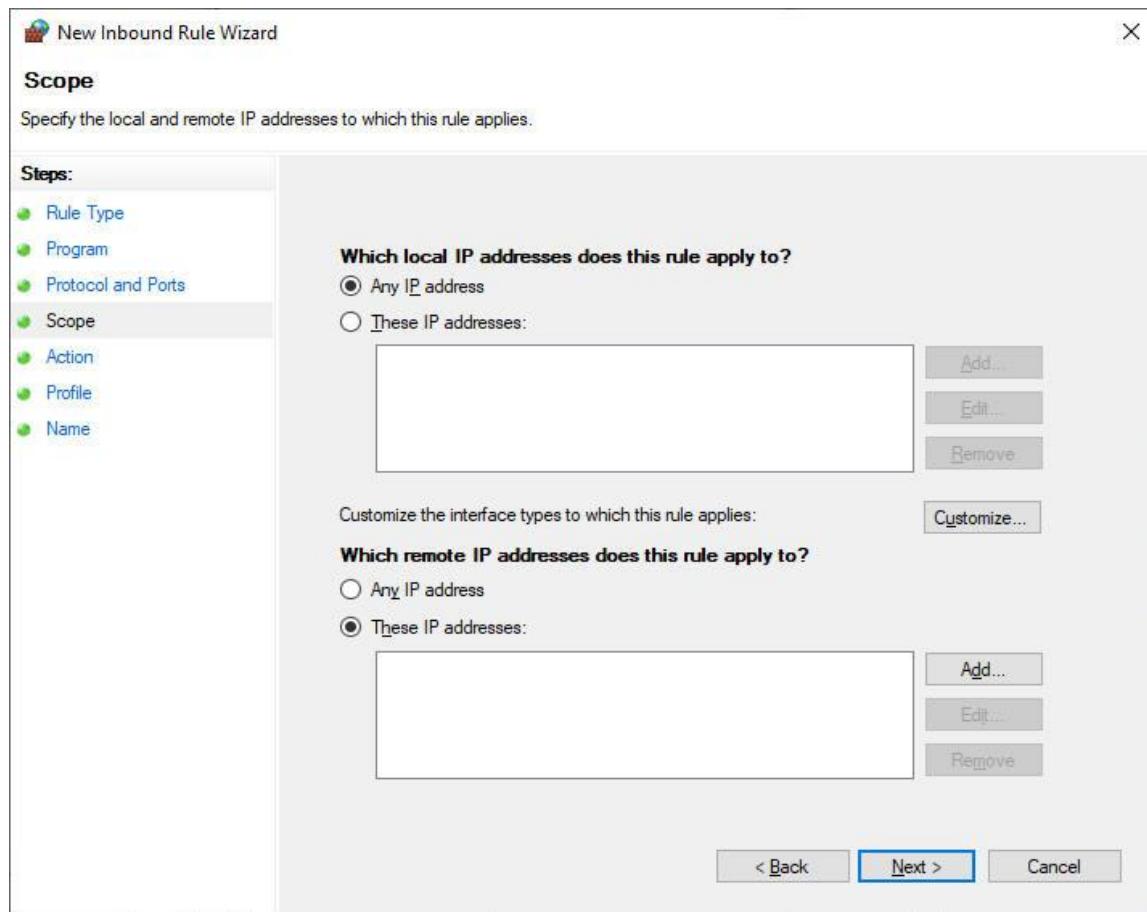
Select All programs:



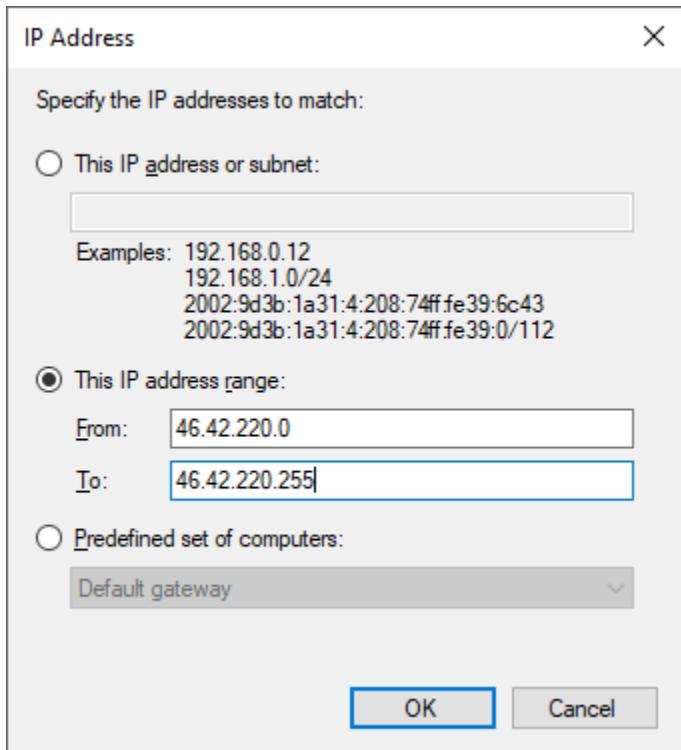
Enter the port for your grid login. Yours is likely to be **8002**. TCP is used to log in, so we will block it.



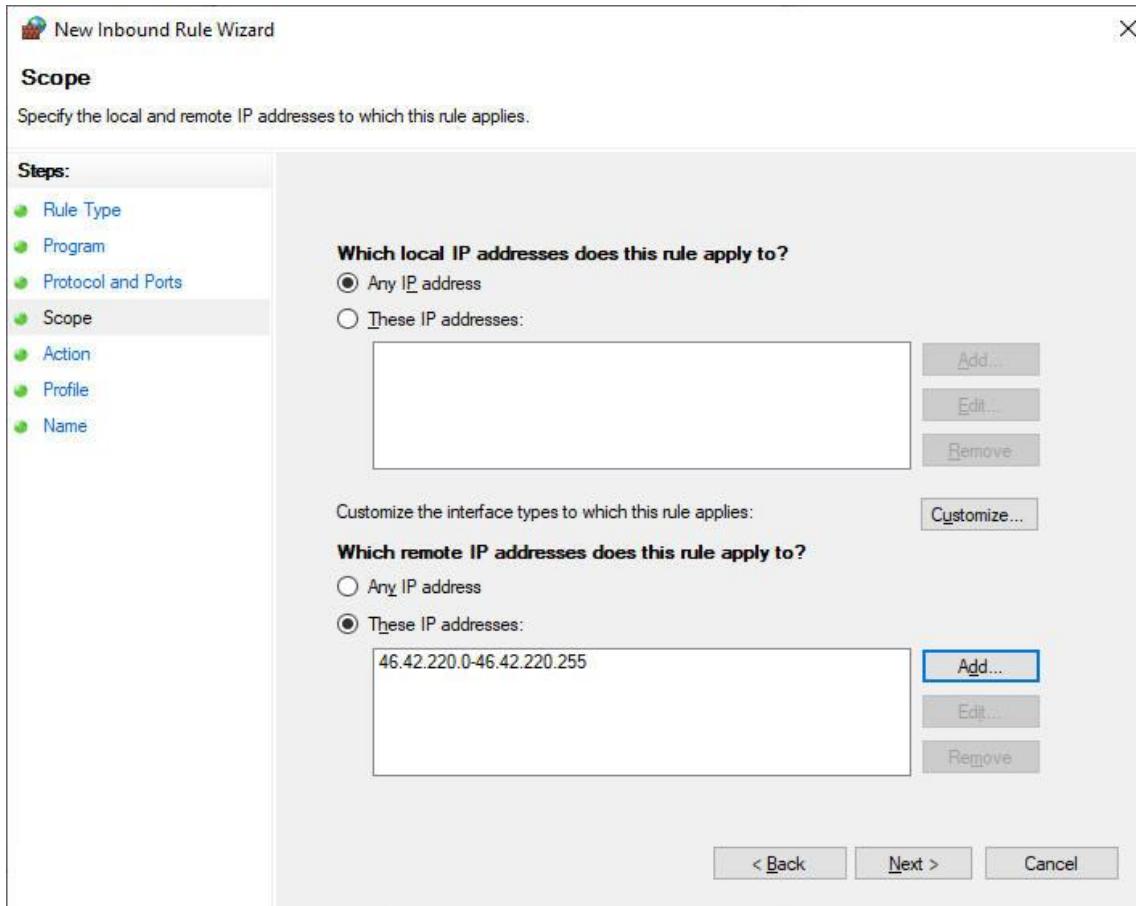
Select **Which Remote IP does this rule belong to** and click **These IP addresses** and click **Add**



Enter the IP or range of IP's.

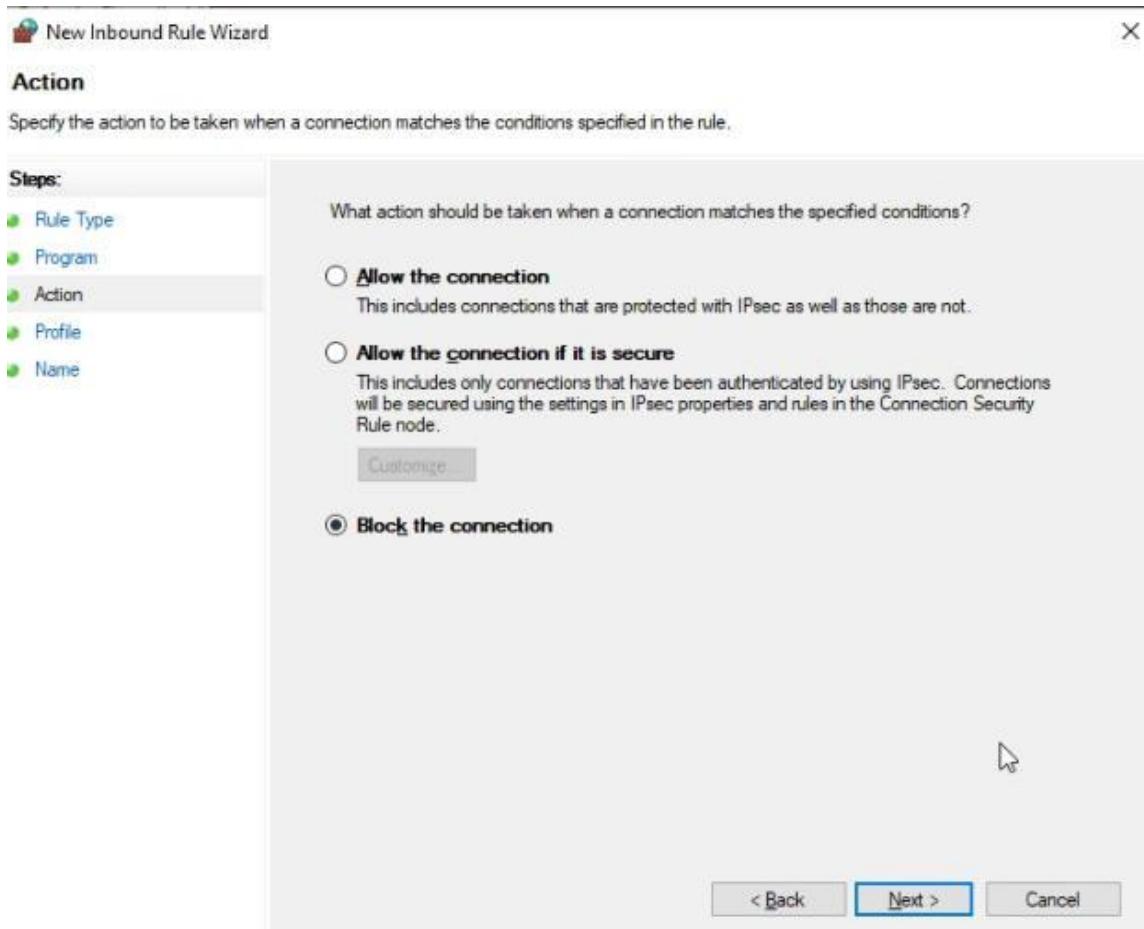


Click OK



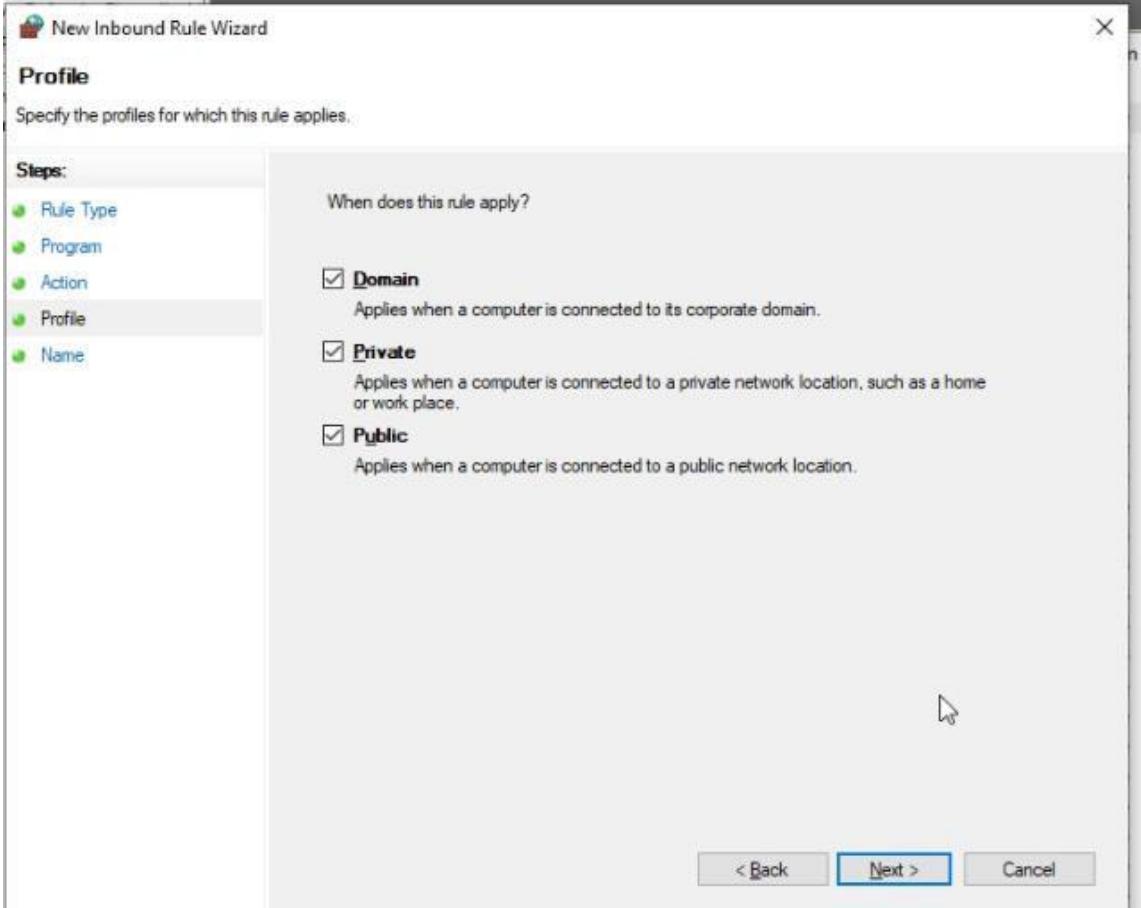
Click Next

Click "Block this connection"

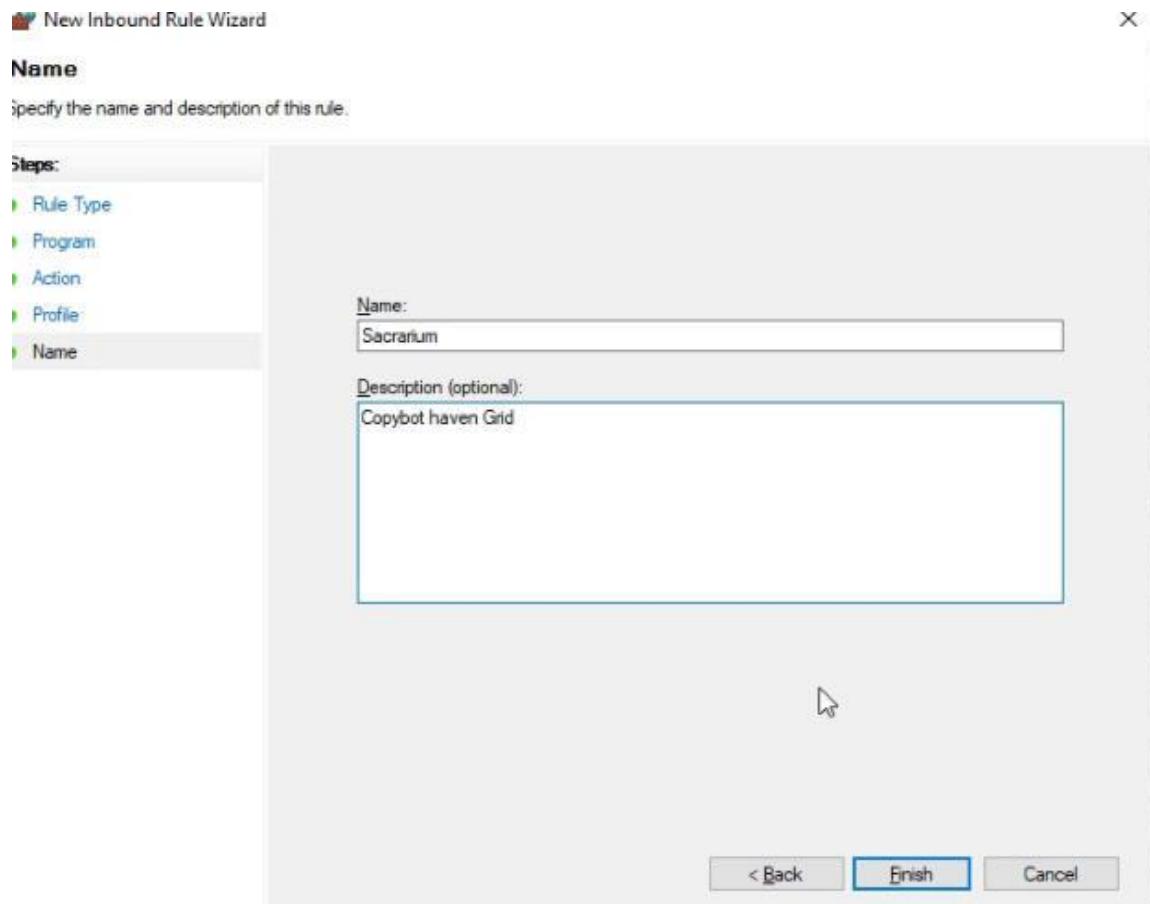


Which firewalls? افعـل كـل مـنهـم These are for machines that may travel to public places such as a McDonalds. Your grid should be set for Private. In corporate environments, it would be Domain.

Is safe to just do them all.



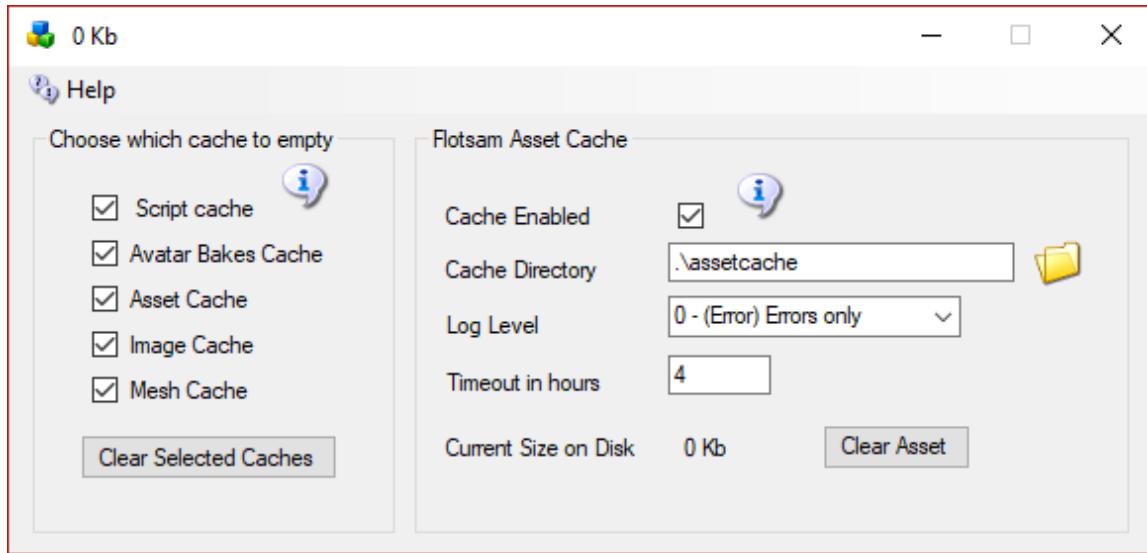
Enter a descriptive name.



"انقر فوق "انهاء".

## FLOTSAM CACHE SETTINGS

OpenSimulator has an asset cache that stores the assets retrieved from an asset service. This reduces the load on a asset service and improves OpenSimulator responsiveness.



## FLOTSAM ASSET CACHE

The Flotsam asset cache, stores assets on disk and in memory.

At the moment, the amount of memory or filesystem storage used by the cache can only be limited via manual actions (wiping all or part of cached assets from the filesystem), by console commands (eg "fcache clear") or by timeout settings (eg FileCacheTimeout = 1 to automatically remove cache files not accessed for 1 hours).

## GENERAL PRINCIPLES

When OpenSimulator requires an asset (eg, in response to a viewer request for a notecard), then it first asks the cache for this data. If the data is not found in the cache, then it asks the grid asset service (or a foreign asset service in the case of Hypergrid). If the asset is there, then it is both stored in the cache and returned to the user.

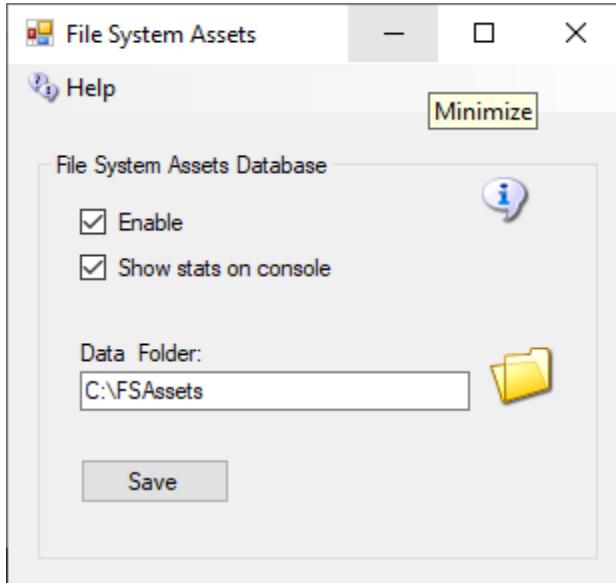
If an asset is uploaded to OpenSimulator (eg, by the viewer uploading an animation), then the asset is at once both kept in cache (if there is room and the asset is not temporary) and sent to the asset service (if the asset is not temporary).

Therefore, at any point you can wipe any temporary data stored by the asset cache (eg, on the filesystem), since the next request for that asset will simply query the asset service as the asset will not be found in cache.

## FSASSETS SETTINGS

FSAssets is enabled by default. This option will save the assets to the file system as opposed to the default service which stores assets as blobs in the database. This option also provides deduplication abilities. Each asset is hashed when it is received for storage. If the asset already exists, the asset service will link to the existing file rather than store two copies.

**IMPORTANT:** This is a major change in database structure. If you already have a MySQL database running with a lot of assets, this will help speed it up, but it will take more disk space. If you start out with this setting, it will use the least space. **Once you switch to FSAssets, you cannot go back to just MySQL without losing data entered since the switchover!**



## DATA FOLDER

This is the folder in which the asset data will be saved. Default = `./fsassets/data`

## SPOOL DIRECTORY FOLDER

The spool directory is a folder used for temporary storage while the asset is hashed and compressed before it gets moved to the BaseDirectory. This must be on the same file system as the base directory. Default = `./fsassets/tmp`

## Migration

FSAssets will use the MySQL database to collect the original data. This will not automatically convert all the old assets to the new service. To convert all assets from the default service there is a Robust console command provided:

```
import <conn> <table> [<start> <count>]
```

The import command expects a database connection string and the name of the legacy asset table to be passed as parameters. The following example shows how to start the import process for a MySQL database. Change the connection details to match your database schema, username and password, or use the DreamGrid default shown here, and copy and paste this into your Robust console:

```
import "Data Source=localhost;Port=3306;Database=robust;UserID=robustuser;Password=robustpassword;Old Guids=true;Command Timeout=300;"  
assets
```

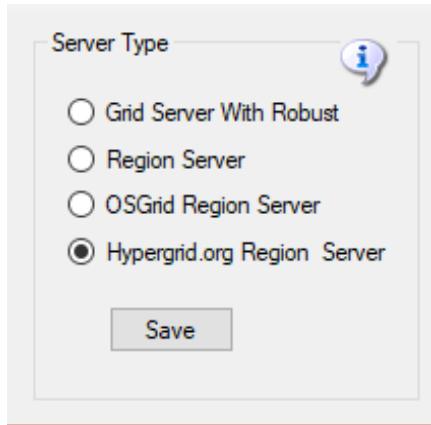
Depending on the size of your existing assets table, the import process will take some time to complete. The optional parameters start and count allow you to specify the position and number of rows to convert.

A default, blank database will look like this:

```
ROBUST# import "Data Source=localhost;Port=3306;Database=robust;User  
ID=robustuser;Password=robustpassword;Old Guids=true;Command Timeout=300;"  
assets  
  
Reading data  
0 assets imported so far  
100 assets imported so far  
200 assets imported so far  
Import done, 274 assets imported  
ROBUST#
```

## GRID TYPE

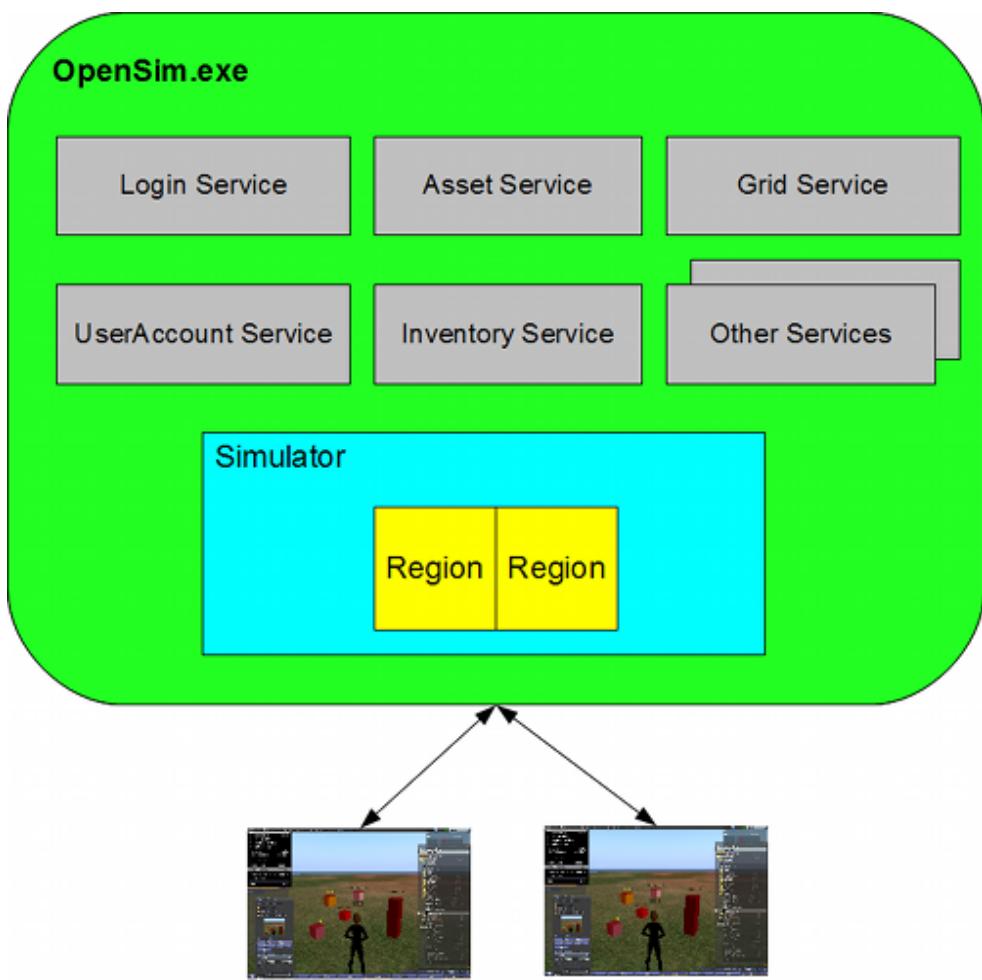
Grid Type lets you choose from either a Grid Server with Robust, or from 3 Region Server choices to connect to another grid.



## GRID SERVER WITH ROBUST

**Grid Server with Robust** is a complete DreamGrid, with your own inventory, logins, and name. هذا هو الافتراضي. When you start your grid, a Robust Box will open to control all your users' inventory.

One server must have a running copy of Robust. More PC's can connect to the Robust server to add more regions.

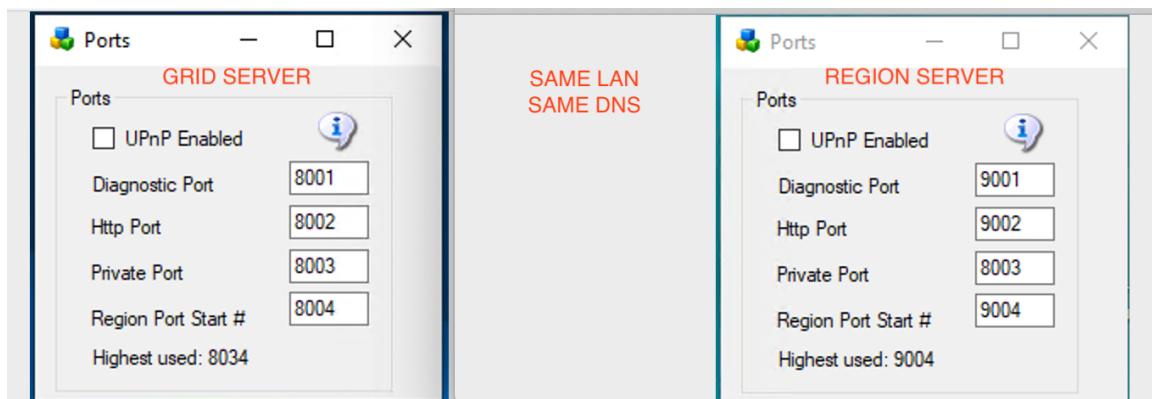


<http://opensimulator.org/wiki/Configuration>

## REGION SERVER

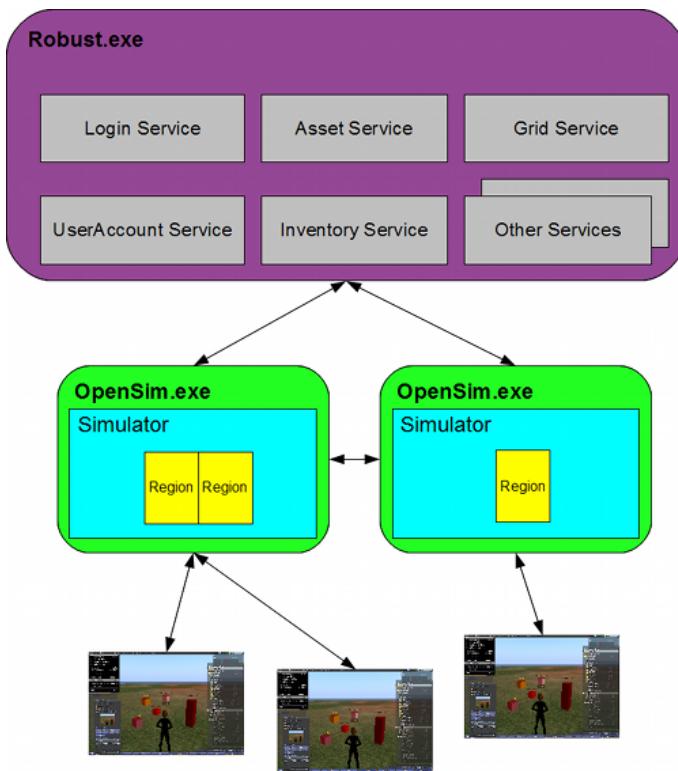
**Region Server** is an add-on to an existing DreamGrid. You can connect additional regions on one or more PC's to an existing Grid Server. You must have access to port 8003 on the Robust server to do this.

A region Server can connect to another Dreamgrid, provided it can reach the Dream Grid's Port 8003. You connect to the Dreamgrid server by changing the DNS name on the Region Server to the name of the grid. For example, my grid is normally named 'www.outworldz.com:9000'. So I change the DNS to [www.outworldz.com](http://www.outworldz.com), and change the HTTP port to 9000 and the robust port to what the grid runs on (which happens to be 9003).



pic courtesy of Michael Bradley

The firewall must also be opened between the two machines. This is not normally an issue on a LAN. But if the region Server(s) are on the Internet, you should not allow access to the port 8003 from everyone. Set up a firewall rule to allow only the Region Servers to access your servers port 8003.



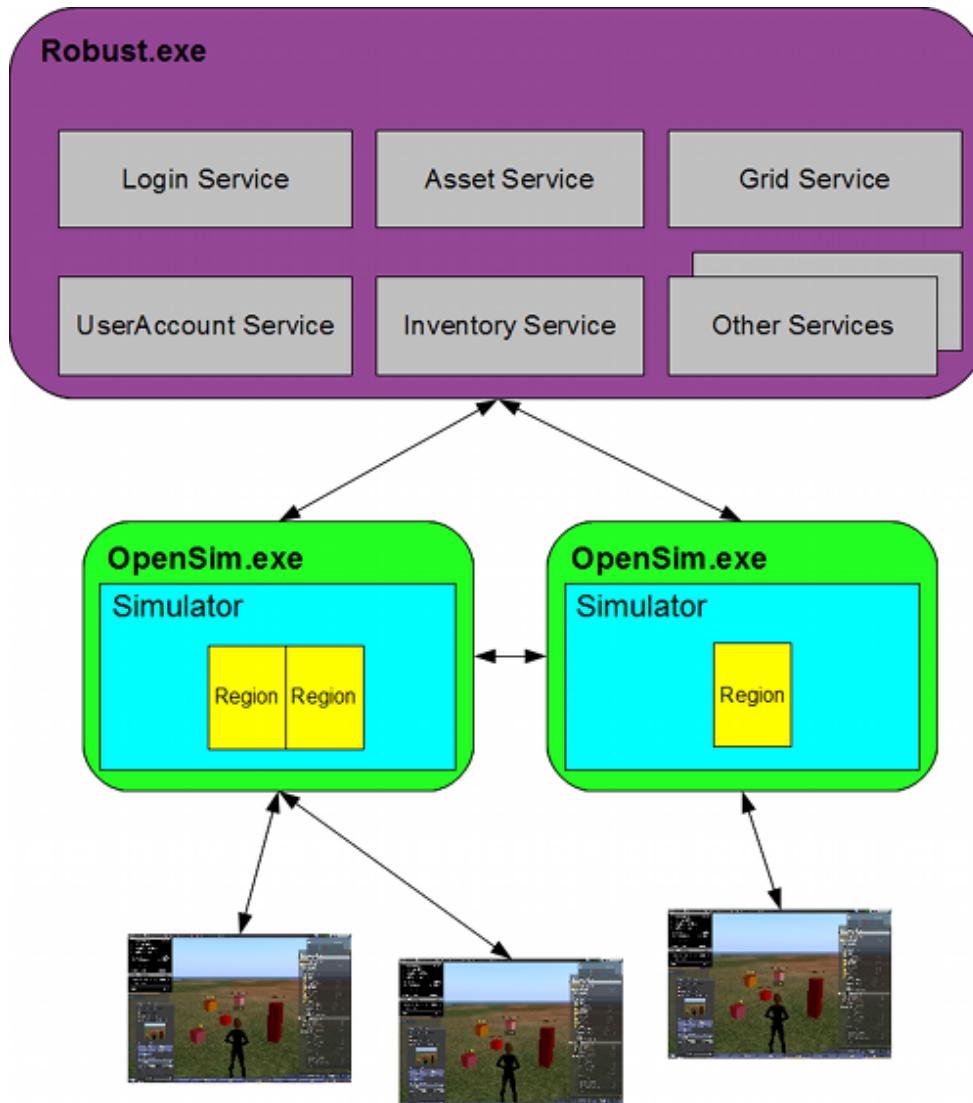
<http://opensimulator.org/wiki/Configuration>

## OSGRID SERVER

**OsGrid Server** This choice is much like running a Region server. OsGrid Servers connect to OsGrid.org. OsGrid is already configured to accept your connections. There are some simple rules you must follow to connect to OsGrid

You will need to choose an empty spot on OsGrid's map for each region.

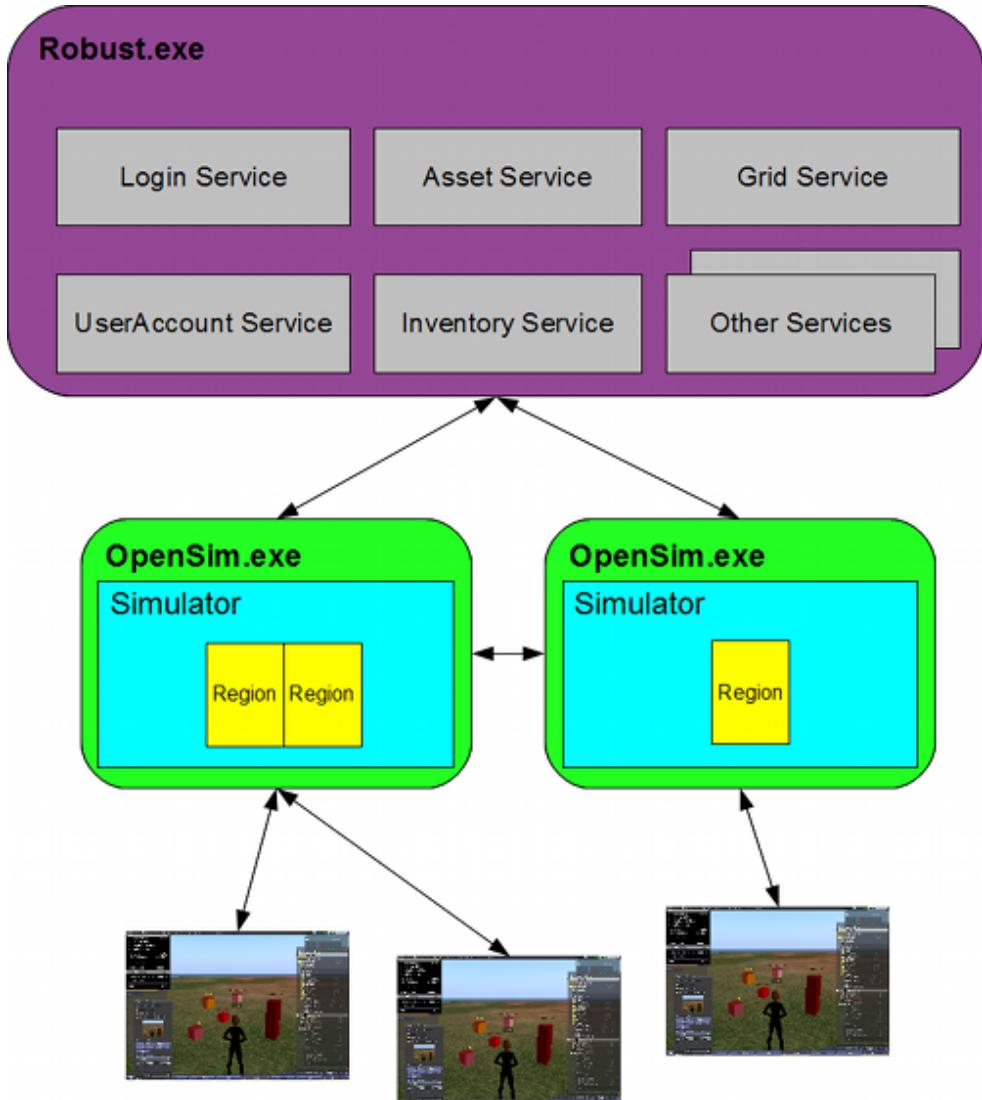
Your viewer login must be set to hg.osgrid.org.



<http://opensimulator.org/wiki/Configuration> CC-BY-SA 2.5

## HYPERGRID.ORG SERVER

**Hypergrid.org Server** This choice is also much like running a Region server. These servers connect to hypergrid.org, commonly called "**"Metropolis Grid"**". Metropolis is already configured to accept your connections. There are some simple rules you must follow to connect to Metro in the section below.



<http://opensimulator.org/wiki/Configuration> CC-BY-SA 2.5

## METROPOLIS SERVER

Metro has a monthly charge to connect your region(s) to their grid, there is also a one-time one Euro charge to register/verify your avatar/account which you need to do to connect a region and login.

See <https://hypergrid.org/metropolis/wiki/en/index.php?title=SIM>

When connecting a self-hosted region, the grid services will be charged a fee of 1.50 euros per month. This contribution is automatically collected monthly from the owner of the respective region.

Any avatar registered in METROPOLIS can move freely within the grid and, if interested, visit most regions freely. Furthermore, he can also collect and use freebies.

Only two functions require verification of the user:

- if a self-hosted region should be connected
- if the user wants to build on sandboxes or on the DUNE regions.

Since copyright-relevant objects can also be loaded into the grid for the aforementioned functions, we are obliged to verify the respective user for legal reasons.

### How can I verify?

To verify an avatar, a one-off symbolic Euro (1 Euro) will be paid to the Metropolis grid via PayPal. Upon payment, PayPal transmits an ID number of the payer. This ID tag (and only these) is stored in the METRO database. No RL names or other RL details are requested and / or stored.

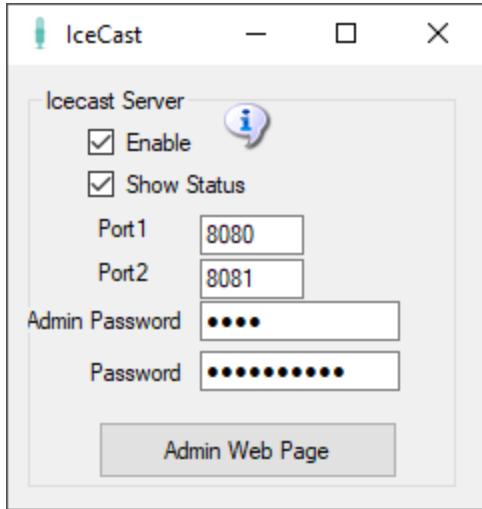
Subsequently, the name of the avatar name indicates the user for whom the verification is to be performed.  
IMPORTANT: After payment has been made via PayPal, you must return to the METRO page via the link on the PayPal confirmation page.

For the verification a PayPal account is required, which can be created for free on paypal.de . The account is available within a few minutes."

<https://hypergrid.org/metropolis/wiki/en/index.php?title=SIM>

## OUTWORLDZ SHOUTCAST AND ICECAST SERVER

Outworldz DreamGrid contains a free Icecast and Shoutcast server. You can use this to broadcast voice and music to any radio, web page, Opensim, Second Life, or your own grid.



- **Enable:** Starts an Icecast Server when Start is clicked.
- **Show Status:** Displays in the window the server's status
- **Port1 & Port 2:** Default is 8080 and 8081. Both ports must be Port Forwarded in your router from the Internet so users can hear the music.
- **Admin Password:** Enter a strong password for control of your Shoutcast server. This Password protects a web page, so choose a good one.
- **Password:** This password is used to stream music to your server. You give it and the stream mount point out to applications and musicians who can stream music using your server.
- **Admin Web Page:** Click this button when Icecast is running to get to the control panel web page.

#### TROUBLESHOOTING:

The latest "default" for ports for NEW installs is 8100 and 8101.

Check in Setup->Icecast which port is set. Check that Icecast is enabled. There is an Icecast DOS box that appears when it is running. You can restart it by clicking the Icon or Menu bar at top of DreamGrid.

Check that you can reach the Icecast server at <http://127.0.0.1:8080>. If not, check Icecast error.log and access.log.

This is normal error.log:

```
[2019-08-20 11:13:33] INFO main/main. C Icecast 2.4.3 server started
[2019-08-20 11:13:33] INFO yp/yp.c YP update thread started
[2019-08-20 11:13:33] INFO connection/connection.c No SSL capability on
any configured ports
```

Check the port with <http://CanyouSeeme.org> to see that it is open. If not, make sure both ports are port forward for TCP and UDP.

Add an exclusion for both ports to your firewall. Keep trying this until you get it to answer to <http://127.0.0.1:8100>. At that point Winamp should connect.

#### How TO BROADCAST Music:

To streaming your own radio, you need a program to play music and send it to your stream.

I use Winamp. You can also use Mixxx, or any third-party streamer. Instructions for both follow.

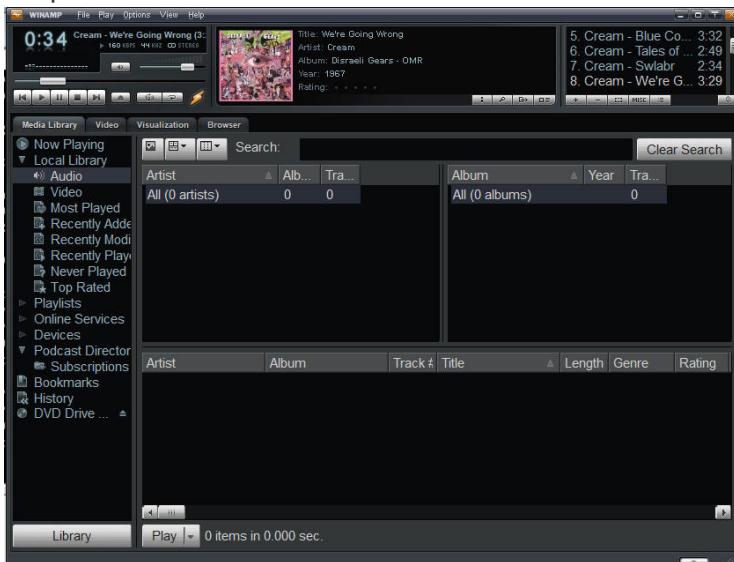
#### WINAMP

You can use many different music or microphone players to stream music to your system. These instructions are for the popular Winamp player.

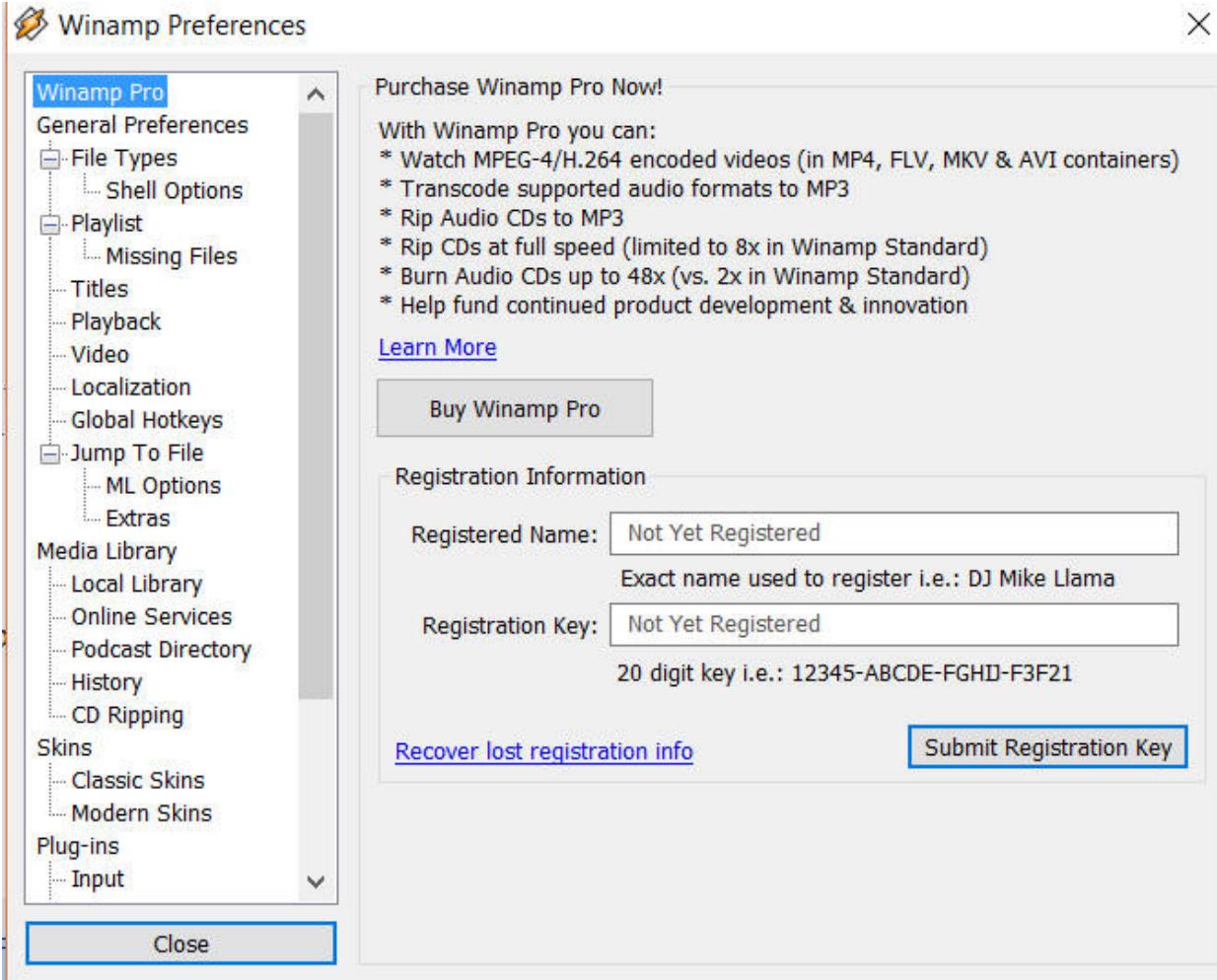
First, [download](#) and install Winamp.

Then [download](#) and install the Shoutcast DSP

Run Winamp. You should see a screen like this:



Navigate to the Options -> Preferences screen



Scroll to the DSP/Effect section on the left side:

 Winamp Preferences

DSP/Effect plug-in

The plug-in selected below will be active, and will usually modify the sound being played. Select (none) if you do not wish to use a DSP/Effect plug-in.

(none)		
Nullsoft Signal Processing Studio DSP v0.39b		dsp_sps.dll
SHOUTcast Source DSP v2.3.5		dsp_sc.dll

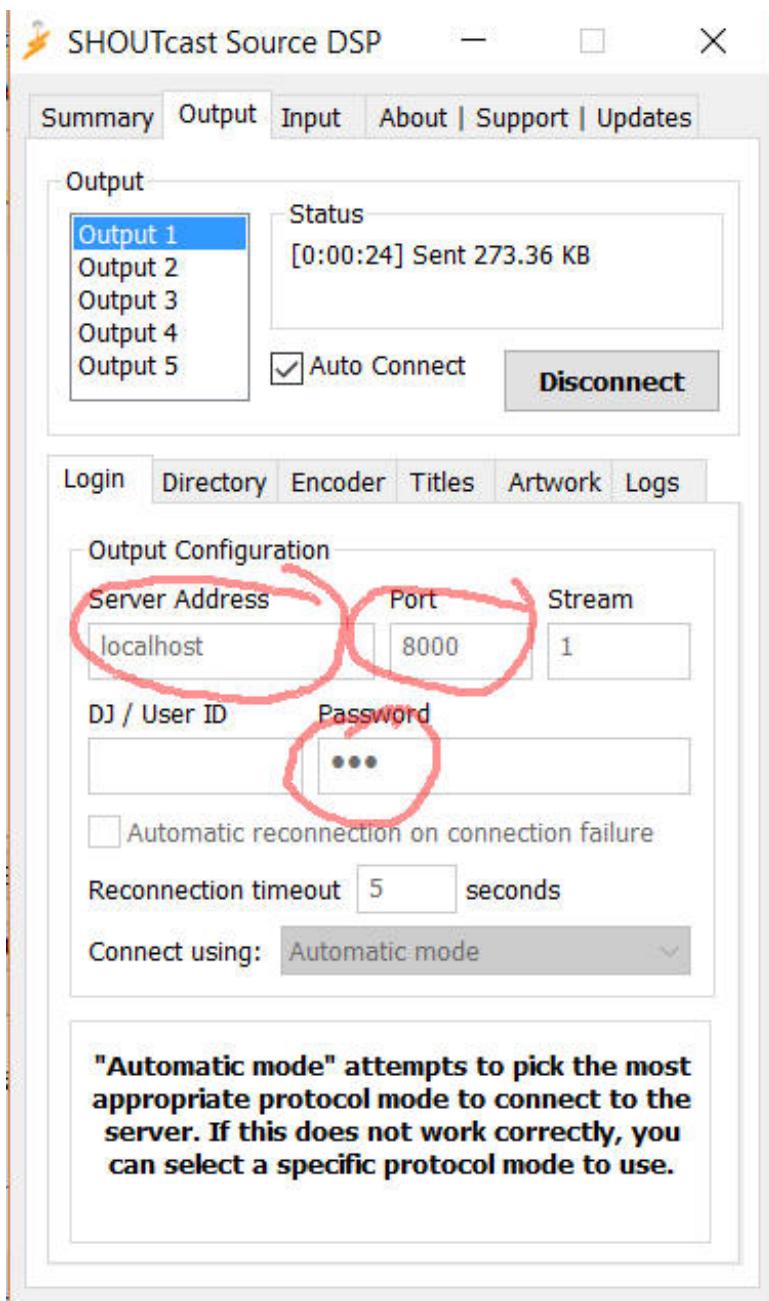
Plug-in SHOUTcast Source DSP

[Configure active plug-in](#) [Uninstall plug-in](#) [Get plug-ins](#)

Close

- Playback
- Video
- Localization
- Global Hotkeys
- Jump To File
  - ML Options
  - Extras
- Media Library
  - Local Library
  - Online Services
  - Podcast Directory
  - History
  - CD Ripping
- Skins
  - Classic Skins
  - Modern Skins
- Plug-ins
  - Input
  - Output
  - Visualization
  - **DSP/Effect**
  - General Purpose
  - Media Library
  - Portables
- Error Feedback

Double click the Shoutcast DSP on the right side to get the DSP setup screen.



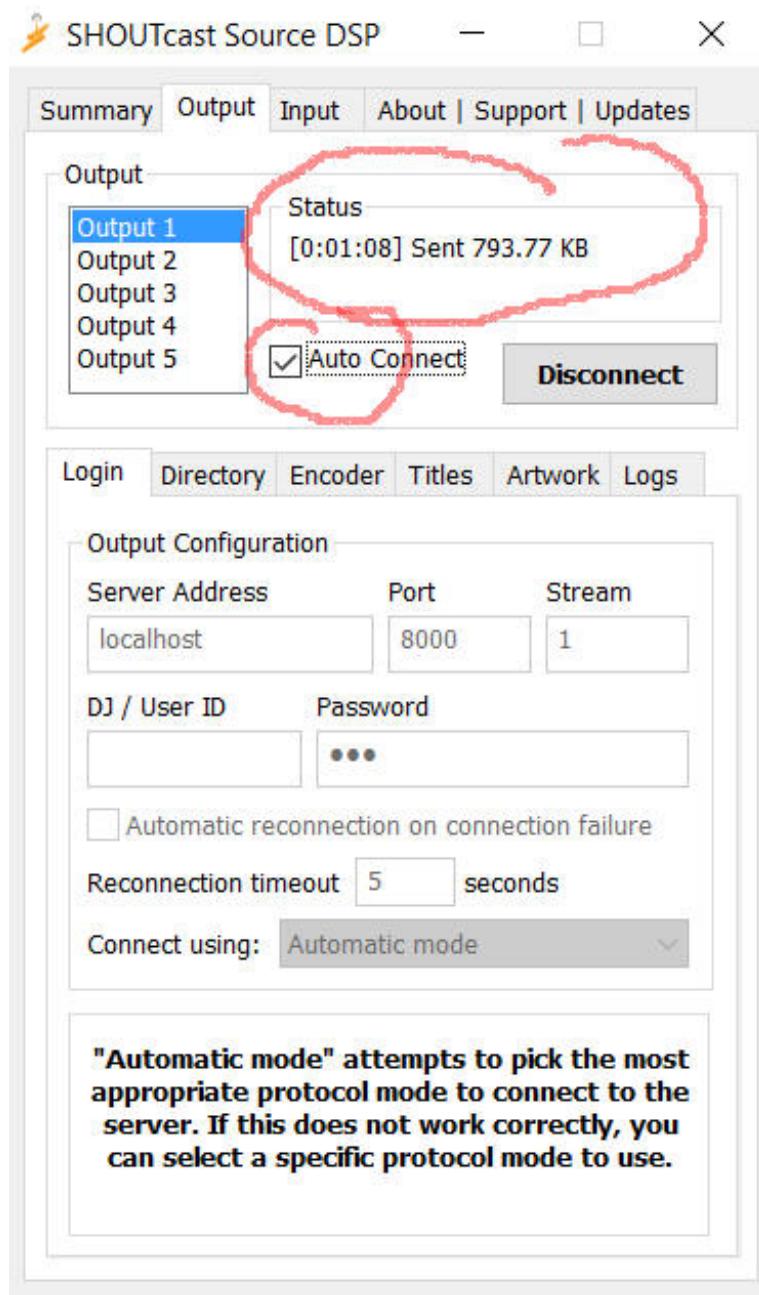
**Server Address:** Enter 'localhost' for the Server Address. If you wish to run Winamp on a different machine, use the Server LAN address.

**Password:** Choose the same password as you used in the Dream grid's password field (not the Admin password).

**Port:** Also enter the same port you used in the DreamGrid setup screen. The default is 8000. If you want others to hear this stream from outside your network, remember to either forward the port or enable the UPNP setting and restart your server.

You can configure more of the screens, but they are not required.

Click **[Auto Connect]** and make certain you see it connect to your Shoutcast server.

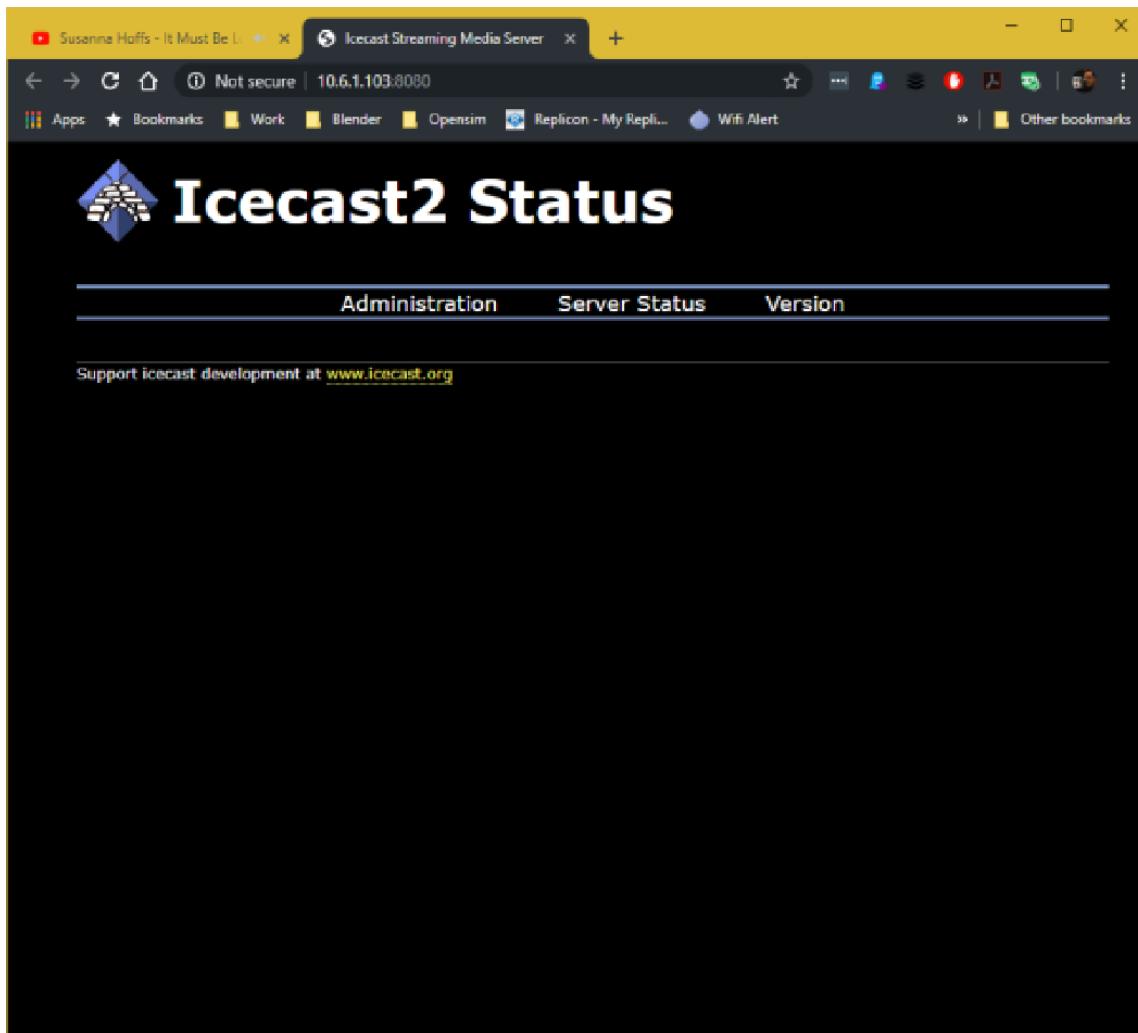


#### SHOUTCAST CONTROL PANEL

Click the Shoutcast [Control, View and Listen] Button to view your Shoutcast web page.

## Control, View and Listen

It should open a web page that looks like this when there is no stream playing.

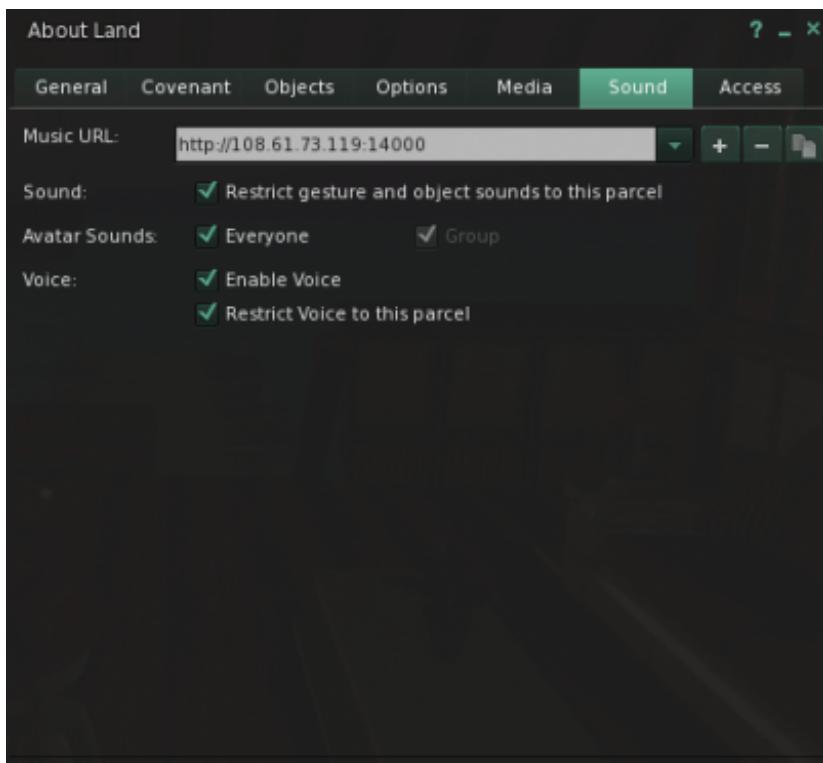


Go find some music in Winamp and press "Play".

The screen should now change to show it is up.

## SETTING UP THE IN-WORLD RADIO

You can use any radio script to set your radio onto the land. A straightforward way is to navigate to the About Land tab and enter the URL into the Sound Tab. For more information see[http://wiki.phoenixviewer.com/land\\_audio\\_tab](http://wiki.phoenixviewer.com/land_audio_tab)



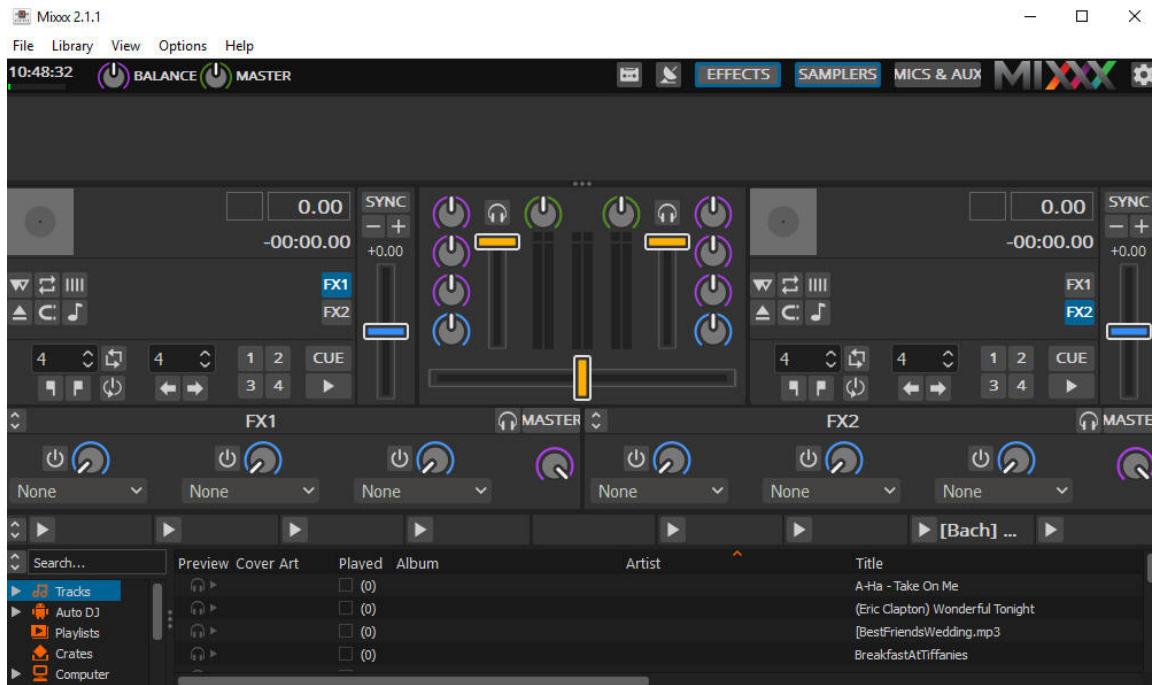
Now enable the media to play in your viewers Sound & Media tab.



For more details, please see[http://wiki.phoenixviewer.com/land\\_audio\\_tab](http://wiki.phoenixviewer.com/land_audio_tab)

## Mixxx

Download and install Mixxx from <https://www.mixxx.org/>. This is what the screen looks like.



### SPECIAL INSTRUCTIONS FOR MP3 FILES:

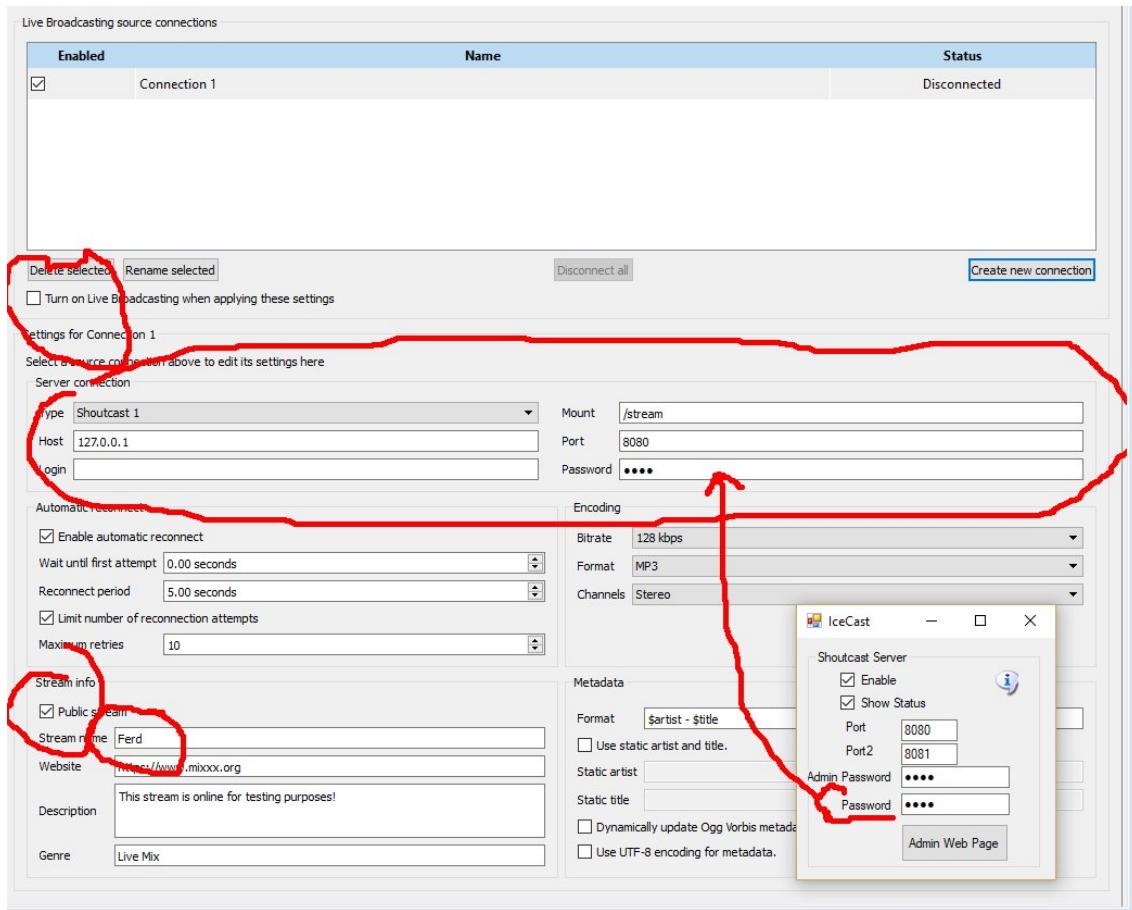
To enable MP3 streaming on Windows, you must follow these instructions:

First, download the lame library from <http://www.rarewares.org>. The download page includes 32-bit and 64-bit versions. Make sure the version you download matches the version of Mixxx that you use, not the version of Windows. If you are on 64-bit Windows but are using 32bit Mixxx, you need the 32bit ("x86") version of the library. Unpack the downloaded ZIP archive.

Copy libmp3lame.dll to the location you have installed Mixxx, probably C:\Program Files\Mixxx\.

## RUNNING Mixxx

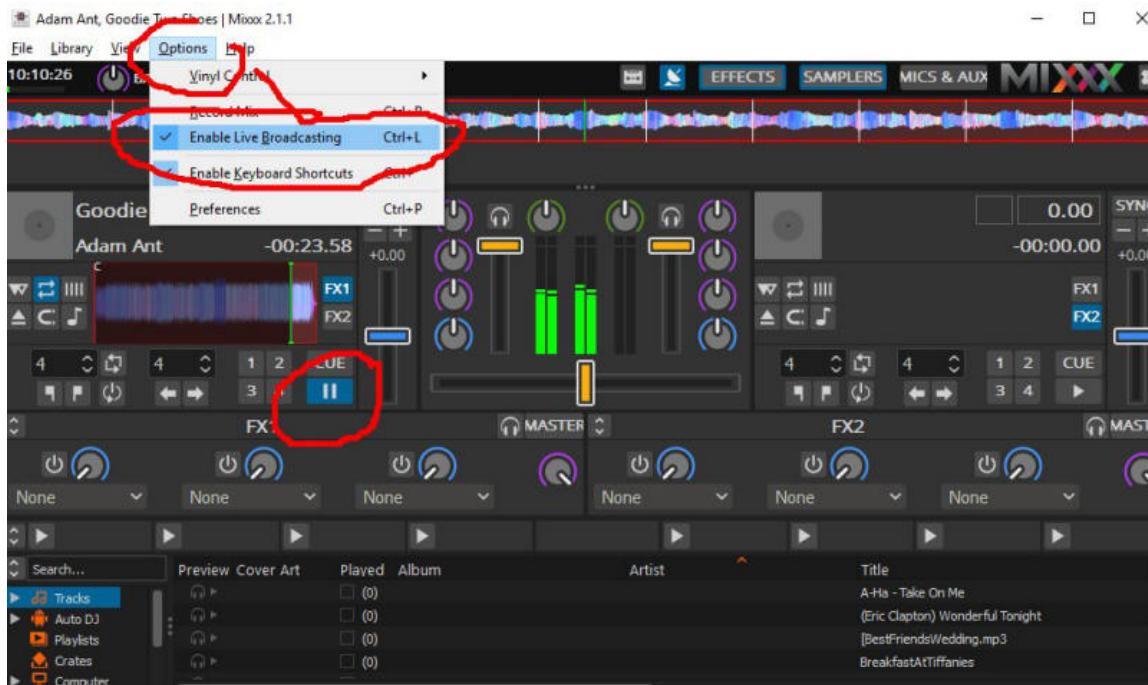
Go to Mixxx's Preferences Screen, then select the "Live Broadcasting" tab on the left. These are the settings I used:



- Check **Turn On Live Broadcasting**
- Set type to **Shoutcast1**
- The standard mount point everyone uses is **/stream**
- Host is **127.0.0.1**
- Port is **8080** from the Dreamworld setup.
- Login is **blank**
- Password is the same password in your Dreamworld setup.
- Check **Public** if you want your stream to be on the Mixxx website. Give it a name.
- Click **Okay** and the screen will gray out and should show no errors.

## Mixx SETUP

On the top of the Mixxx main screen is an **Options** menu. Click **Enable Live Broadcasting**. I have it shown in the photo. Load a track and click play. For me, that was hard to find! It is circled in the picture and shows a pause button.



Use a web browser and navigate to <http://127.0.0.1:8080/stream> and click the play button. You can also click the **Admin Web Page** button. You should hear the music, delayed by maybe 15 seconds. This is normal buffering. Click Stop in Mixxx and the music will play for a bit longer due to the buffering.

The Public URL or Domain Name for your world is entered into your sim instead of 127.0.0.1, so for my simulator, the music URL becomes <http://www.outworldz.com:8080/stream>. This URL must include the 'mount point' of /stream you entered earlier.

Navigate to <http://127.0.0.1:8080>. You should see the standard web page for Icecast. Yours truly, can log in using your administrator password, see the status, and see the mount point.

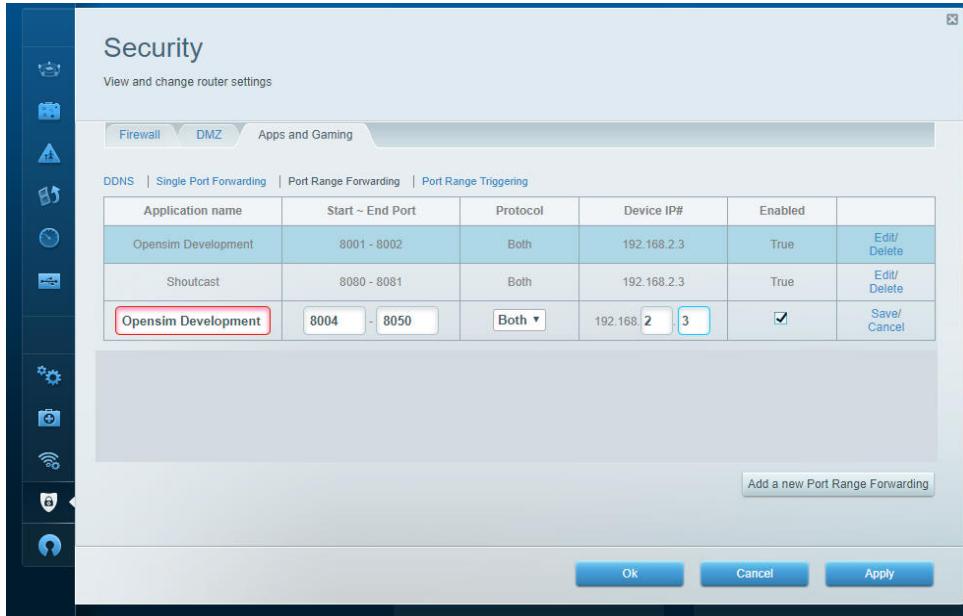
#### TROUBLESHOOTING:

If it cannot connect, make sure Icecast is running in a separate DOS box.

You do not have to run the grid to stream music. It is only used to set up the files and start Icecast. For example, you can run a radio station or use it for Second Life. There is a batch file in /Icecast called 'icecast.bat' that will run the server.

#### PORT FORWARDS:

Add port 8080 and 8081 to your routers Port Forward. You should also check they are not blocked by your firewall or anti-virus. This is my setup:



The Shoutcast setting shown above is used when you are running the Icecast/Shoutcast server.



**IMPORTANT:** this version required changes in DreamGrid, Joomla and in jOpensim. This also the reason why this version will not update as usual with the Joomla updater. Clicking on update in Joomla without following these instructions will result in a broken jOpensim installation. If you also have jOpenSim PayPal in use, you will need to update this component as well.

#### How To UPDATE:

First, update your Joomla installation to version 3.9.23. This can be done by logging into the Administrator panel and clicking the notice. Or click on Components->Joomla Update. **Do not update past Version 3.9.23 to V 4!**

In DreamGrid, go to Setup->Settings-> and then to Joomla/jOpensim.

Press the [Update] button to update to the latest jOpensim. This will take you to this screen:

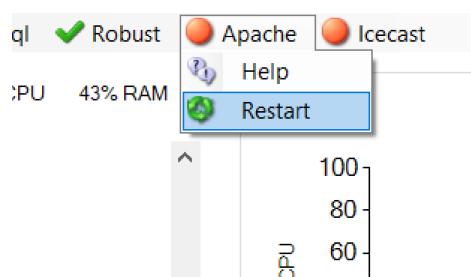
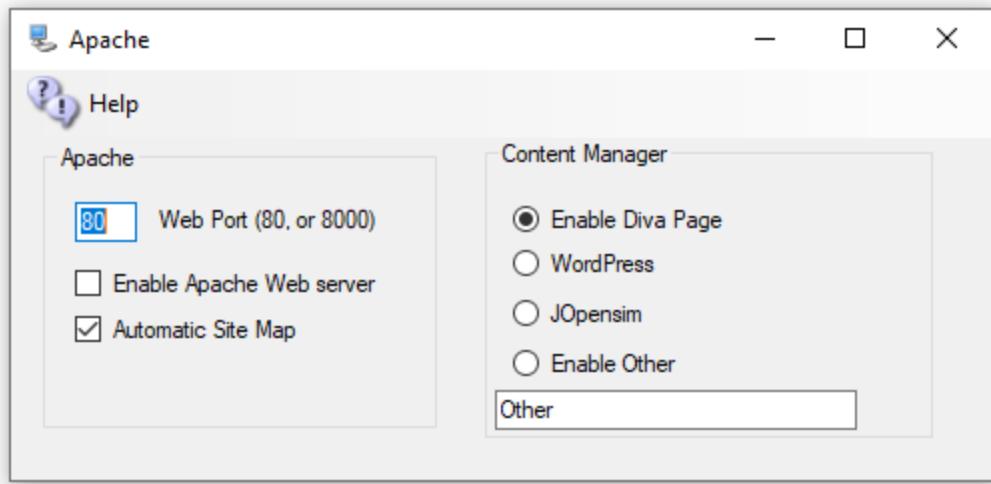
The screenshot shows the Joomla! Extensions Directory (JED) interface. At the top, there are links for Help and Options. On the left, a sidebar menu under the 'Install' tab includes: Update, Manage, Discover, Database, Warnings, Install, Languages, and Update Sites. The main content area has a message about the JED now being available via 'Install from Web'. Below this, there are three tabs: 'Upload Package File' (selected), 'Install from Folder', and 'Install from URL'. A large central area is labeled 'Upload & Install Joomla Extension' with a placeholder for a file upload icon and the text 'Drag and drop file here to upload.' At the bottom of this area is a green button labeled 'Or browse for file' and a note that the maximum upload size is 8.00 MB.

Click the big green “Or Browse for file” and navigate to the Outworldzfiles\jOpensimfiles\ folder. Select “pkg\_jopensim.0.3.2.0.zip” and click Ok. This will update you to jOpensim V3.0.2.0.

## INSTALLING AND RUNNING JOOMLA AND JOPENSIM

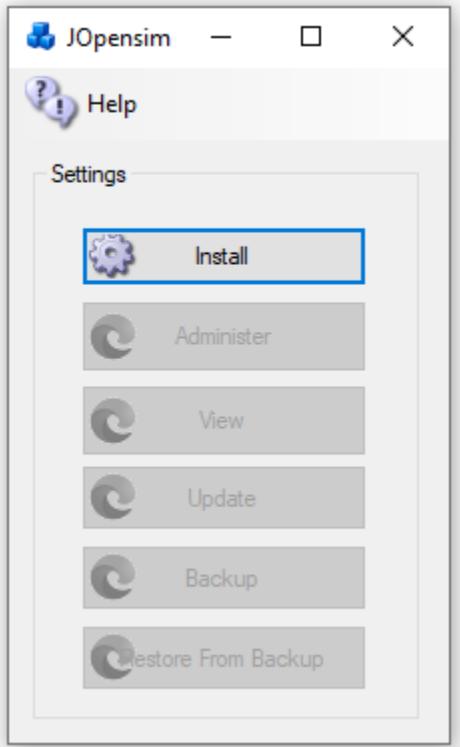
Make sure Apache is enabled. See the Help file for Apache on how to enable it. You must install the C++ Runtimes.

Leave the Apache Content Manager set at “Diva” to prevent redirects. When you finish with Joomla, you can enable JOpensim. This redirects all traffic to your web server to Joomla/jOpensim.



Both the MySQL and Apache icons should be Green.

Click Setup->Joomla/JOpensim and click the Install Button.



It will install the files

You should see the Joomla Setup Page. Fill in the Site Name, a short Description, and pick a Super User Account name and password. Joomla is exposed to the public Internet, so be sure that you use a long and secure password that you have never used before. Write it down as you will need it often!

 Joomla!®

Joomla! is free software released under the [GNU General Public License](#).

**1 Configuration**   **2 Database**   **3 Overview**

Select Language English (United States)

## Main Configuration

Site Name *	DreamGrid <input type="button" value="i"/>	Super User Account Details
Enter the name of your Joomla! site.		Email * <input type="text" value="fred@outworldz.com"/>
Description	My test Webserver <input type="button" value="i"/>	Enter an email address. This will be the email address of the website Super User.
Enter a description of the overall website that is to be used by search engines. Generally, a maximum of 20 words is best.		Username * <input type="text" value="Fred"/>
		Set the username for your Super User account.
Password * <input style="width: 100px; height: 20px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; margin-right: 10px;" type="password" value="*****"/>		<input type="button" value="i"/>
Set the password for your Super User account and confirm it in the field below.		<input style="width: 100px; height: 20px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; margin-right: 10px;" type="password" value=""/>
Confirm Password * <input type="button" value="i"/>		<input type="button" value="i"/>
Site Offline	<input style="background-color: #2e6b2e; color: white; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; margin-right: 10px;" type="button" value="Yes"/> <input style="background-color: #4CAF50; color: white; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px;" type="button" value="No"/>	
Set the site Frontend offline when installation is completed. The site can be set online later on through the Global Configuration.		
<input type="button" value="Next →"/>		

Press Next

- Fill in the Host name as **127.0.0.1**
- Database name as **Joomla**
- Username should be **robustuser**
- Password should be **robustpassword**.

1 Configuration    2 Database    3 Overview

## Database Configuration

← Previous    → Next

Database Type *	MySQLi
This is probably "MySQLi".	
Host Name *	127.0.0.1
This is usually "localhost" or a name provided by your host.	
Username *	robustuser
Either a username you created or a username provided by your host.	
Password	*****
For site security using a password for the database account is mandatory.	
Database Name *	JOpensim
Some hosts allow only a certain DB name per site. Use table prefix in this case for distinct Joomla! sites.	
Table Prefix *	rwlol_
Create a table prefix or use the randomly generated one. Ideally four or five characters long, it may only have alphanumeric characters and MUST end in an underscore. Make sure that the prefix chosen is not already used by other tables.	
Old Database Process *	<input type="button" value="Backup"/> <input type="button" value="Remove"/>
"Backup" or "Remove" any existing tables from former Joomla! installations with the same "Table Prefix".	

Press Next

Verify that there are no errors

1 Configuration    2 Database    3 Overview

## Finalization

← Previous    → Install

Install Sample Data	<input checked="" type="radio"/> None (Required for basic native multilingual site creation)
	<input type="radio"/> Blog English (GB) Sample Data
	<input type="radio"/> Brochure English (GB) Sample Data
	<input type="radio"/> Default English (GB) Sample Data
	<input type="radio"/> Learn Joomla English (GB) Sample Data
Installing sample data is strongly recommended for beginners. This will install sample content that is included in the Joomla! installation package.	

## Overview

Email Configuration	<input type="button" value="Yes"/> <input type="button" value="No"/>
Send configuration settings to <a href="mailto:red@mitsi.com">red@mitsi.com</a> by email after installation.	

## Main Configuration

Site Name	DreamGrid
Site Offline	No
Email	<a href="mailto:red@mitsi.com">red@mitsi.com</a>
Username	Admin

## Database Configuration

Database Type	mysql
Host Name	127.0.0.1
Username	robustuser
Database Name	Joomla
Table Prefix	rwlol_
Old Database Process	<input type="button" value="Remove"/>

Press Install

Congratulations! Joomla! is now installed.

Joomla! in your own language and/or automatic basic native multilingual site creation

Before removing the "installation" folder you can install extra languages. If you want to add extra languages to your Joomla! application select the following button.

Extra steps: Install languages

Note: you will need internet access for Joomla! to download and install the new languages. Some server configurations won't allow Joomla! to install the languages. If this is your case, don't worry, you will be able to install them later using the Joomla! Administrator.

PLEASE REMEMBER TO COMPLETELY REMOVE THE INSTALLATION FOLDER.  
You will not be able to proceed beyond this point until the "installation" folder has been removed. This is a security feature of Joomla!

Remove "installation" folder

Site Administrator

Administration Login Details

Email	fred@outworldz.com
Username	Fred

Click

Remove "installation" folder

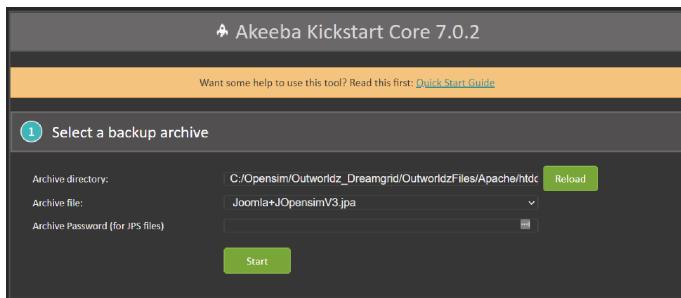
RESTORE DATA

In your web browser go to <http://127.0.0.1/JOpensim/kickstart.php>, or in Setup->Settings->Joomla/jOpensim, click the [Restore] button.

Press <esc> key to close the warning screen.

Select the latest backup jOpensimBackupV{X}.jpa in the pulldown.

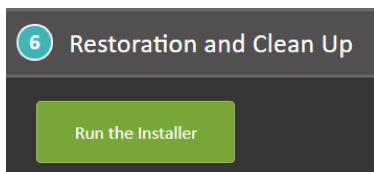
**CAUTION: There is NO PASSWORD. If your browser adds one, please blank it out or the setup will fail.**



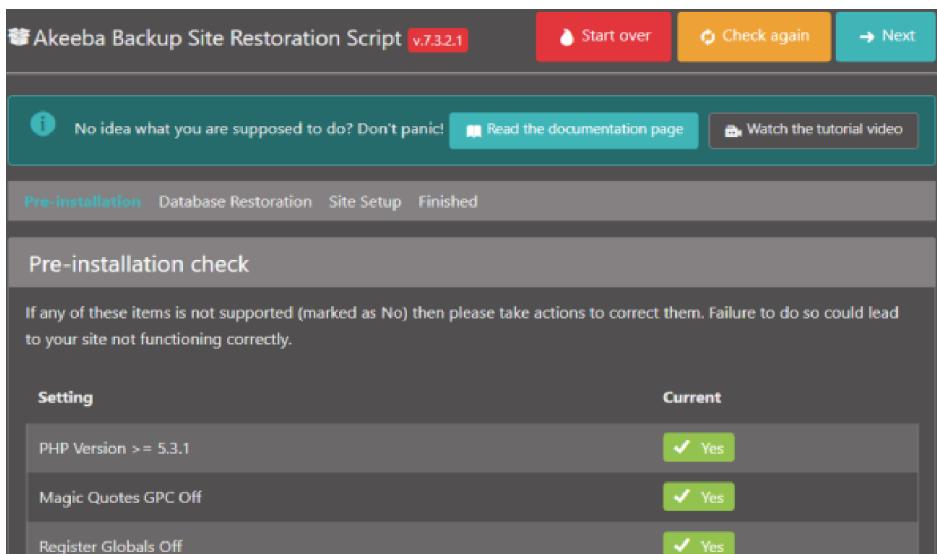
Click Start. It will show it is extracting.



Click Run the Installer



Press Next at Upper Right



Fill in the values:

- Database Host is **127.0.0.1**
- User name is **robustuser**
- Password is **robustpassword**

- Database name is **Joomla**

Leave the table prefix alone, as the name is assigned randomly for security.

### Restoration of site's main database

**Connection information**

Database type	MySQLi (preferred)
Database server host name	127.0.0.1
User name	robustuser
Password	*****
Database name	Joomla
Database table name prefix	k0r1q_

Click Next at the top right

### Database restoration

✓ The database restoration was successful

Click the button below to proceed to the next step

[→ Next step](#)

Fill in the upper part and leave the 'Live Site URL' blank.

### Site Parameters

Site name	DreamGrid
Site e-mail address	fred@outworldz.com
Site e-mail sender name	fred@outworldz.com
Live site URL	
<b>⚠ WARNING!</b> Your web server is running on Windows. Filling in the Live site URL when running a site on Windows will make it impossible to log in to your site's administrator area because of a bug in Joomla!. Please leave this box blank.	
Force SSL	None
Cookie domain	
Cookie path	
Turn on mail sending	No <span style="background-color: #2e7131; color: white; padding: 2px 5px;">Yes</span>

Fill in the bottom part with your Desired Super User Password. You need to remember this! The login id will be Admin with this password, not the prior one you used!

The screenshot shows two sections of a configuration interface:

**Directories fine-tuning**

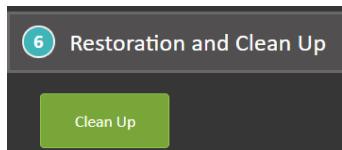
Site root	C:\Opensim\Outworldz_Dreamgrid\OutworldzFiles\Apache\htdocs\Opensim\
Temporary directory	C:\Users\admin\Desktop\Freds Jopensim\OutworldzFiles\Apache\htdocs\Ope
Log directory	C:\Users\admin\Desktop\Freds Jopensim\OutworldzFiles\Apache\htdocs\Ope

**Super User settings**

Super User	admin
E-mail	fred@outworldz.com
Password	*****
Password (repeat)	*****

Press Next at Upper right

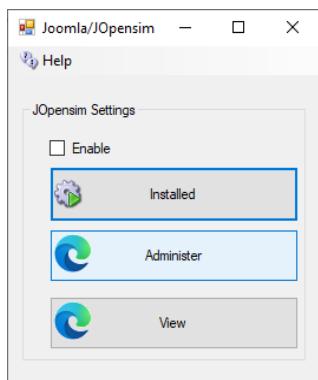
Close this window to return to Kickstart. Click the **Clean Up** button to start using your restored site.



## EDITS

Joomla will require some edits to match your preferences.

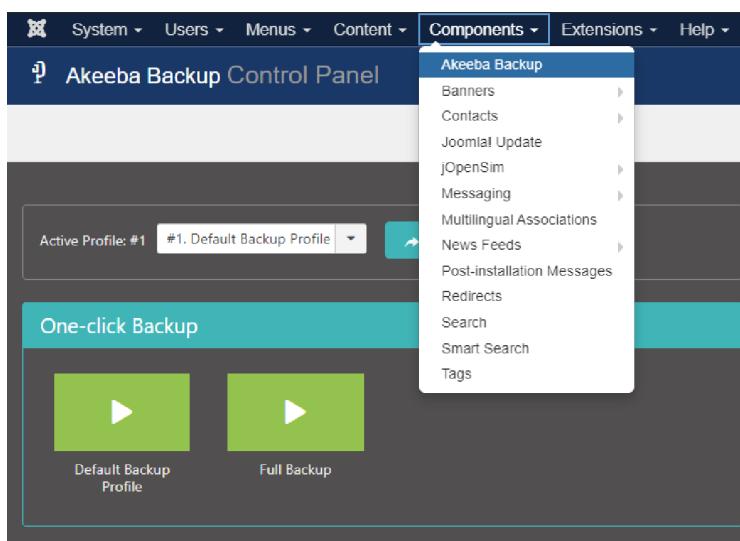
Click the Administer button to log in as "Admin" with your Super User password.



## BACKUPS:

You can back up Joomla and JOpensim with Akeeba backup, which I built into your distribution.

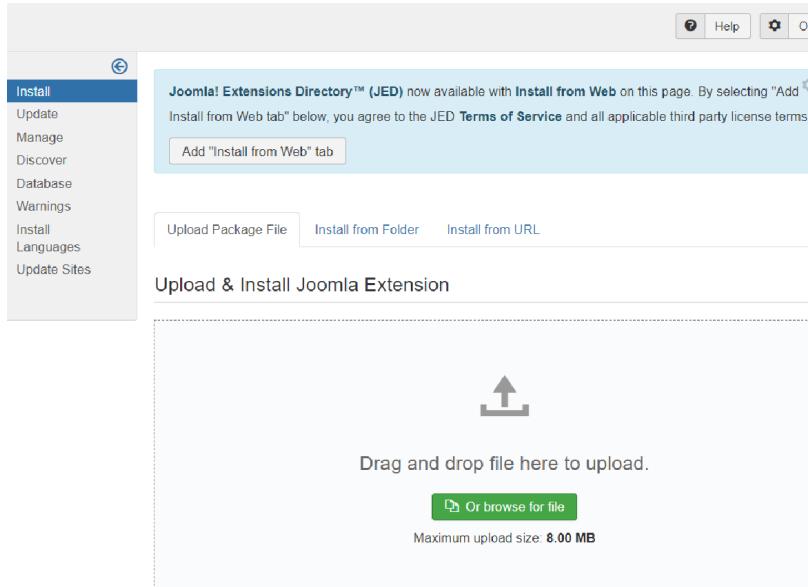
Click Components->Akeeba Backup and select “Full Backup”.



To restore a backup, Click [Restore] in the Dreamrgid jOpensim menu to extract kickstart-core-7.0.2.zip and load the URL as shown in section “Restore the Data”, above.

## UPDATE

Press the Update button to update to the latest jOpenSim. This will take you to this screen:



Click "Or Browse for file" and navigate to the Outworldzfiles\jOpensim\_Files\ and select [pkg\\_jopensim.0.3.2.0.zip](#).  
This will update you to Version 0.3.2.0.

## JOPENSIM MONEY

### **This is NOT available**

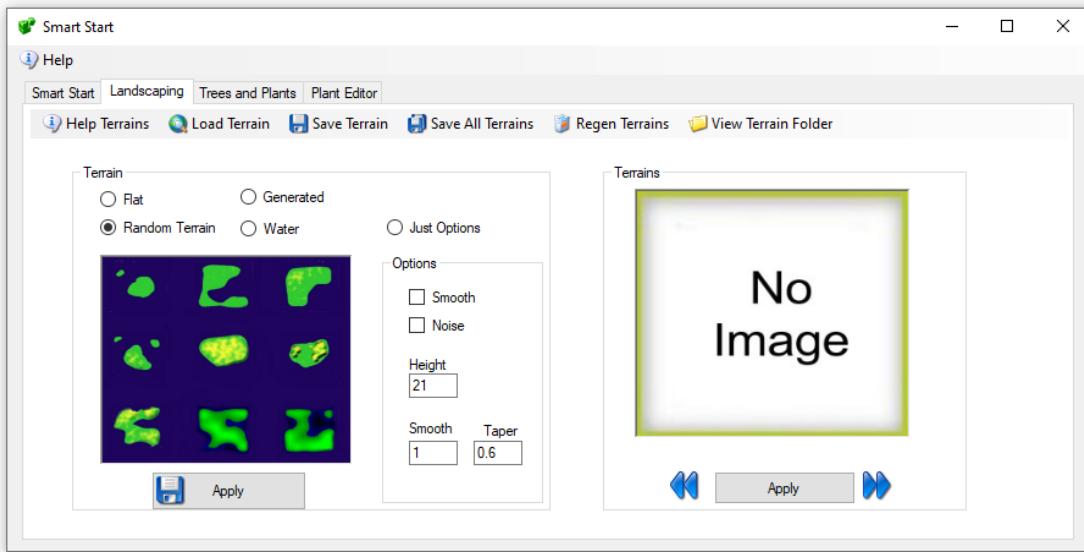
References:

Jopensim Wiki <http://wiki.jopensim.com/>

JOpensim Bugs <https://mantis.jopensim.com/>

## LANDSCAPING

The Landscape modules lets you add terrains and plants to any region.



The left side has 4 types of auto or premade terrains. The right side lets you browse and apply to any region any saved Terrain.

### MENU:

- Load Terrain – You can choose any of the many pre-defined terrain files or browse to another location. The system supports PNG, RAW, R32, and TER (Terragen) formats
- Save Terrain – The system will save the selected region file in the above 4 formats along with a JPG image.
- Save All Terrains – The system will save the selected region file in the above 4 formats along with a JPG image in all running regions as well as all Idled Smart Start Regions.
- View Terrain Folder - open file explorer to the Opensim\bin\Terrain\ folder

### TERRAIN SECTION

The left side has a set of functions for what effect to apply to the land.

Options: These modify the chosen effect

**Just Options** – ignore the terrain land, just apply the options.

**Smooth**: smooths the land. The smoothing operation is somewhat different than the others, as it does not deal with elevation values, but rather with strength values (in the range of 0.01 to 0.99). The algorithm is simplistic in averaging the values around a point, and is implemented as follows:

The "strength" parameter specifies how much of the result is from the original value ("strength" \* map[x,y]).

The "taper" parameter specifies how much of the remainder is from the first ring surrounding the point (1.0 - "strength") \* "taper". There are 8 elements in the first ring.

The remaining contribution is made from the second ring surrounding the point. There are 16 elements in the second ring.

eg

*terrain modify smooth 0.5 -taper=0.6*

- the original element will contribute  $0.5 * \text{map}[x0,y0]$
- each element 1m from the point will contribute  $((1-0.5)*0.6)/8 * \text{map}[x1,y1]$
- each element 2m from the point will contribute  $((1-0.5)*0.4)/16 * \text{map}[x2,y2]$

**Noise** - The smooth value represents a delta amount (at centre of range)

**Taper** - represents a delta amount (at edges of range)

## LAND TYPES

**Flat** – Land is always flat. The Option “Noise” will make the land bumpy. This makes nice underwater if the Option for Height is set below water level of 20 meters.

**Random Terrain** - uses one of the saved terrains. Options can apply

Water – The same as flat land with Height set to 0

Generated – a series of steps are applied:

- Options are set for Min Level between 22 and 40 meters
- Taper between 0 and 135 meters high
- Upon setting Apply the system will have:
  - One in 6 chance fill of land at Height meters with the random taper
  - One in 6 chance for low lying land at 12 meters with lots of noise
  - One in 6 chance for center to be squared from 20 to 40 meters with the random taper
  - One in 6 chance for water level with a variable raised bump with noise

One in 6 chance for water level with a variable raised bump

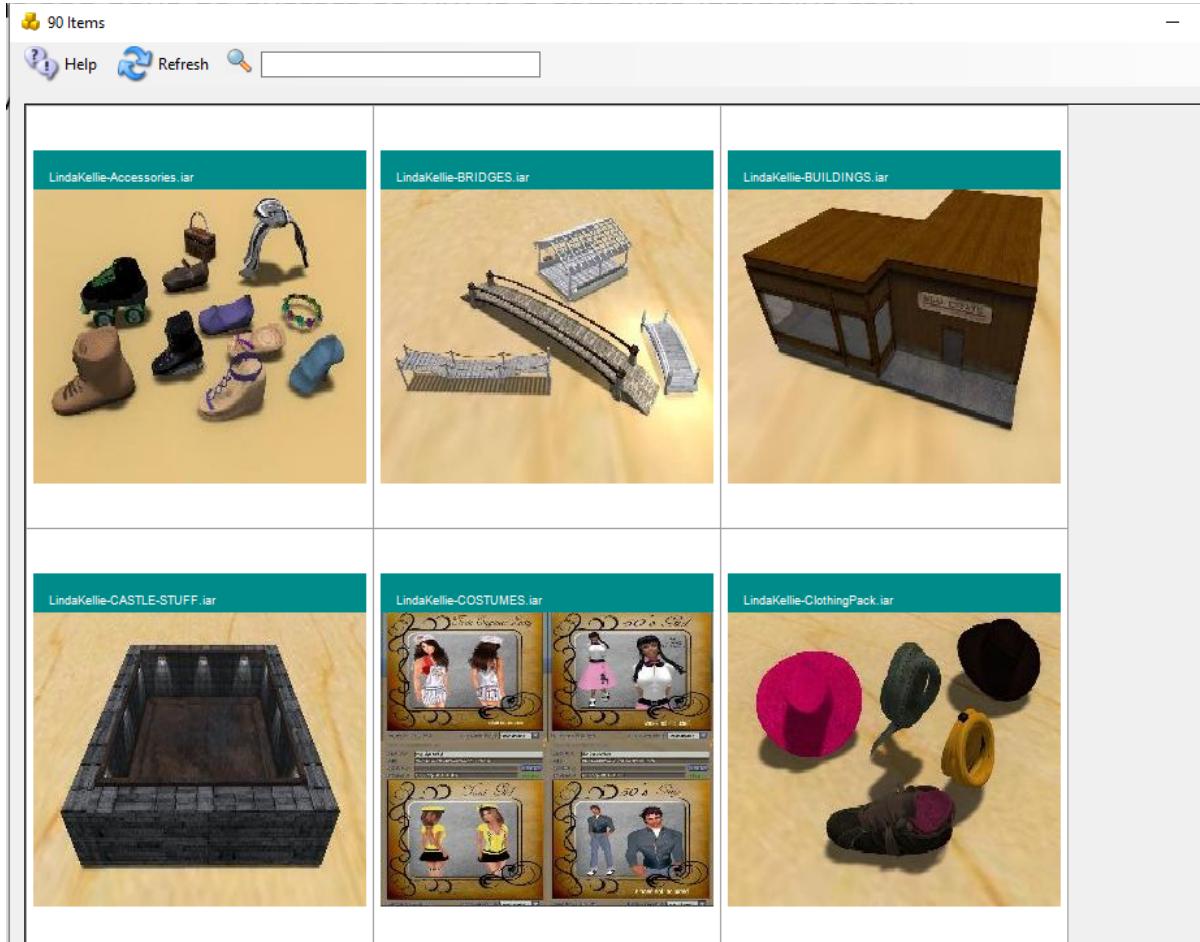
## LOAD IAR

An IAR is an Inventory Archive - all inventory, or an object, image, mesh, or a folder. You click the Menu to load a Free IAR from the Outworldz, and a list of free IARs appears:

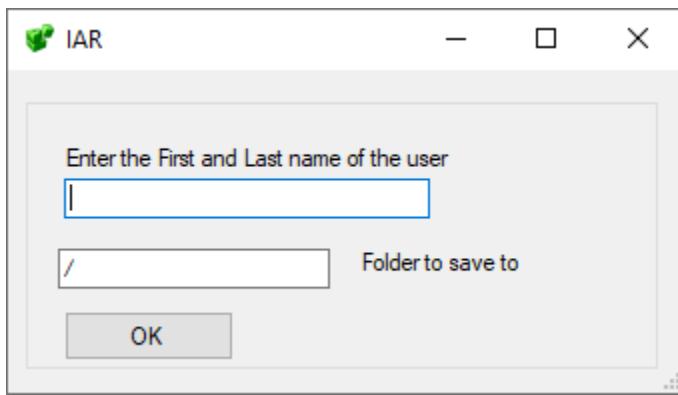
The name, file size, and the credits/license for the IAR appears when you hover your mouse over the photo.

You can search for an IAR.

There is NO PASSWORD used in DreamGrid IARS. Grid Owners are responsible for the contents of the Grid and should be able to backup individual IARS on request.



After clicking a desired Item, the system will show an avatar First and Last Name box.



The default is "/", but you can load your IAR to the Inventory with "/Objects", or to a specific folder, such as /Textures.

The inventory will load in one of the Dos boxes.

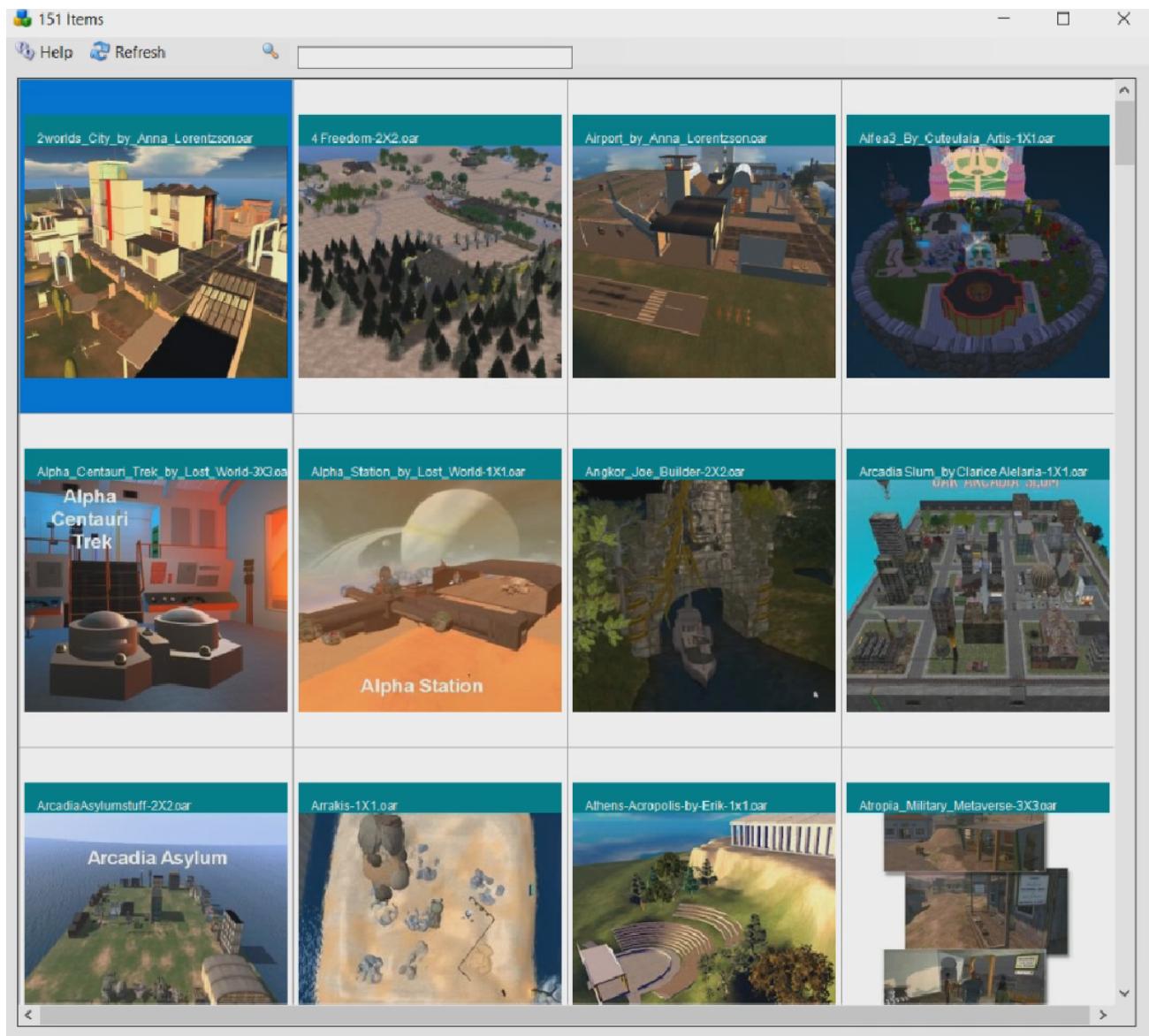
You may need to re-login in order to see your new inventory item.

#### LINKS:

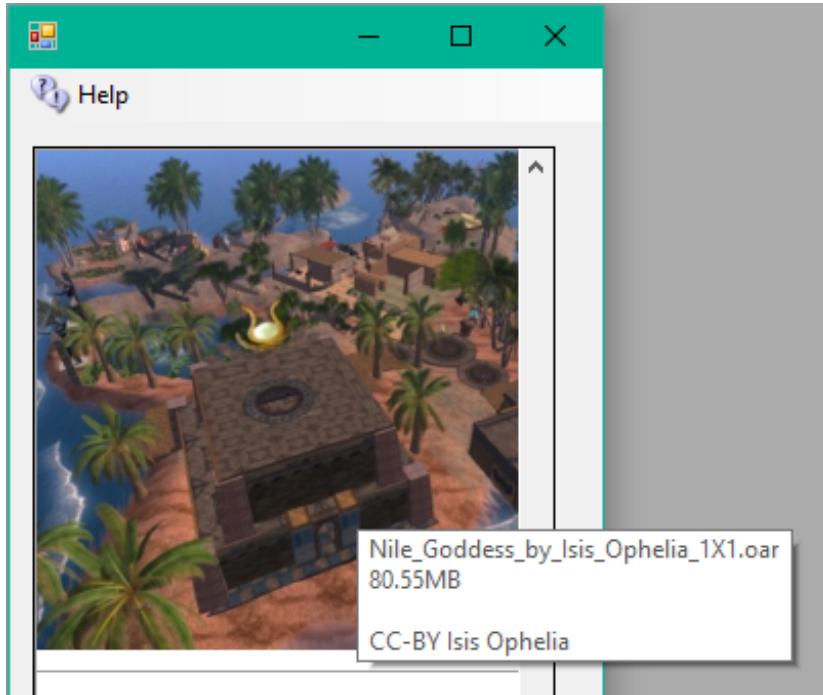
[http://opensimulator.org/wiki/Inventory\\_Archives](http://opensimulator.org/wiki/Inventory_Archives)

## LOAD OAR

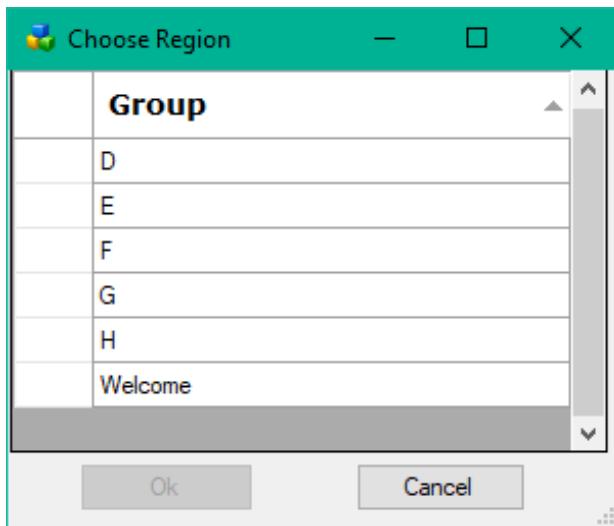
An OAR is an Object Archive - a complete region with content, terrain, and scripts. You click the Menu to load a Free OAR from the Outworldz, and a list of free OARs appears:



The name, file size, and the credits/license for the OAR appears when you hover your mouse over the photo.

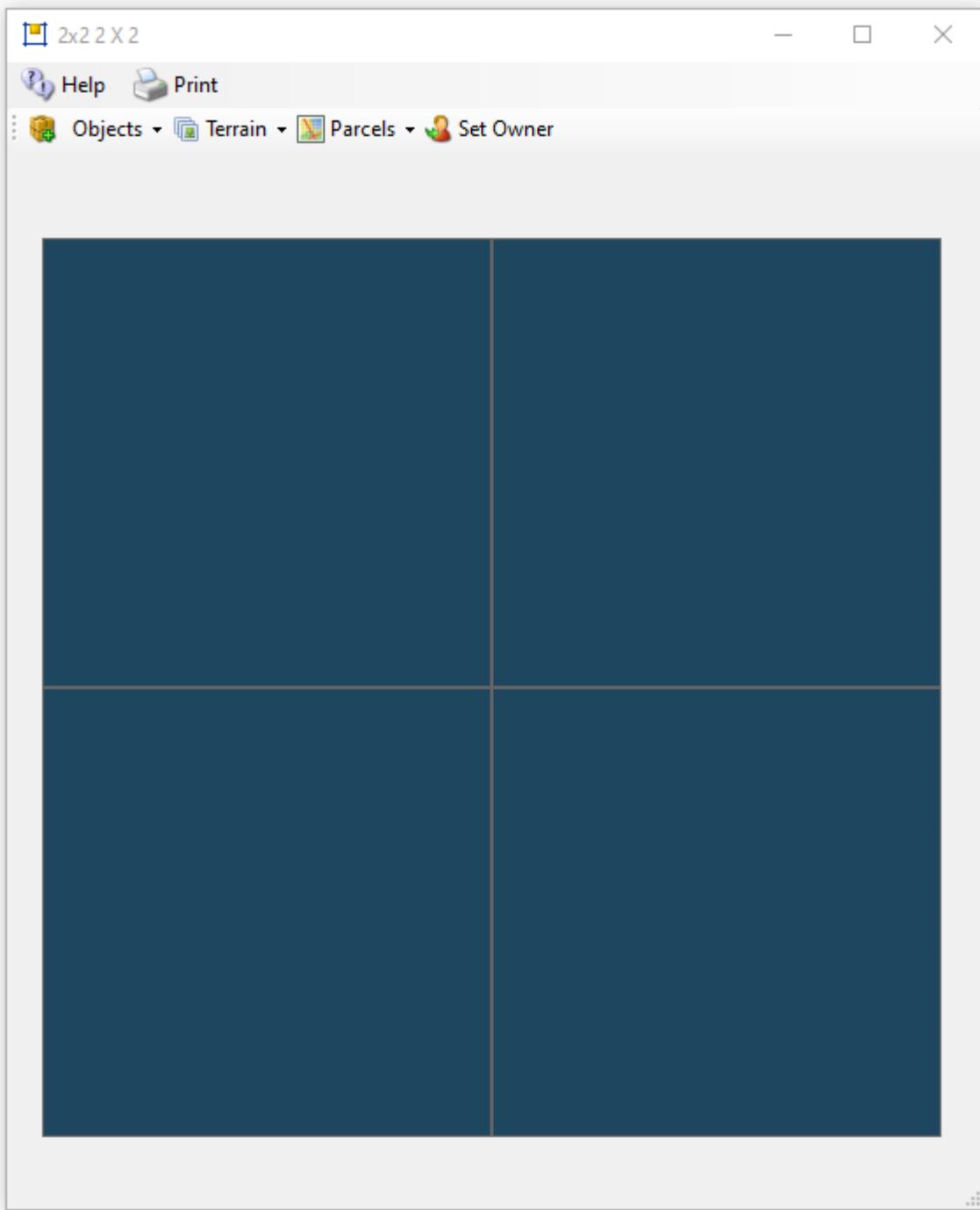


Clicking any photo brings up a region chooser box:

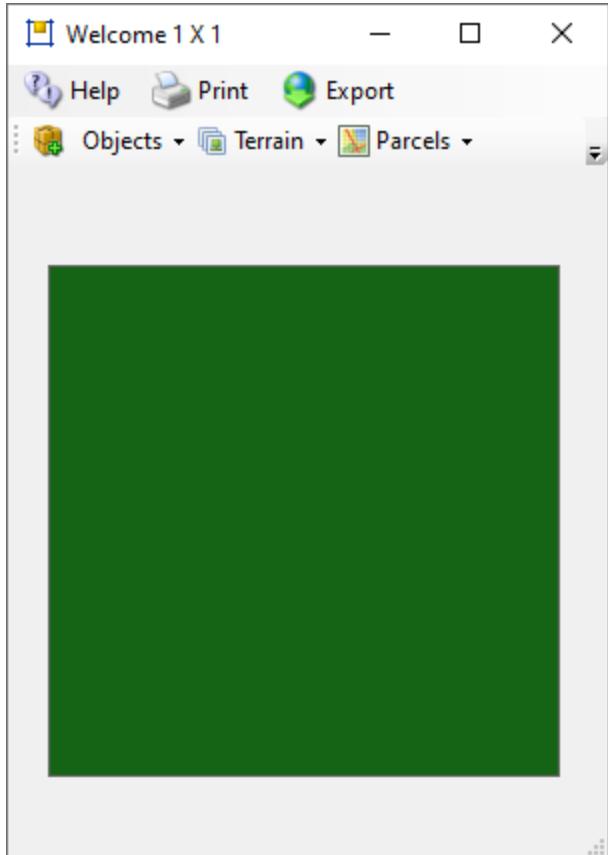


Select the Region you wish to load and click OK. you can also double-click the region.

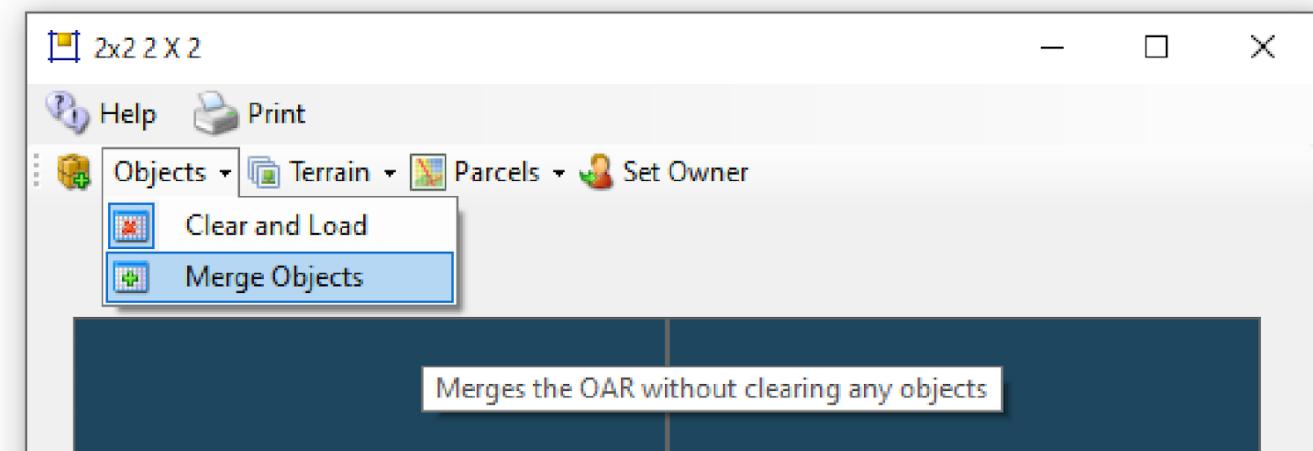
Click a Blue section to choose which section of this Var Region to put this OAR in.



This is a 1X1 region

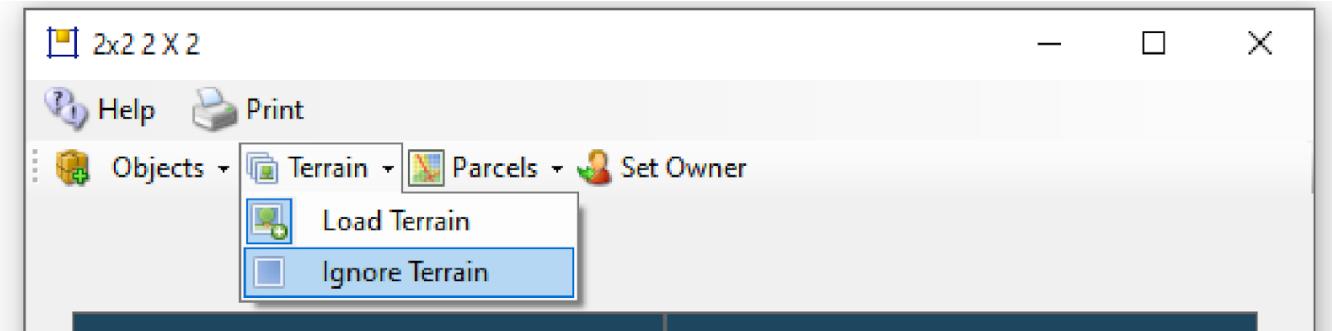


OPTIONS: - MERGE



Merge the contents of the reading OAR with the existing contents in the region, or clear the entire region and load it.

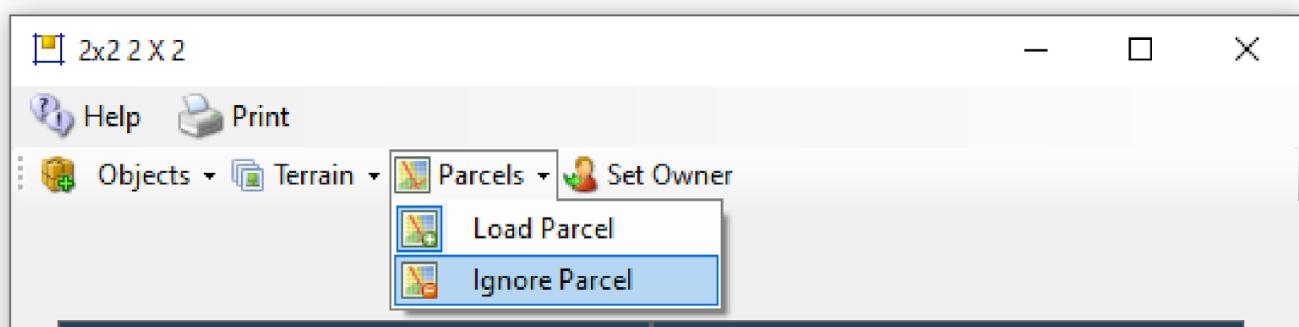
--DISPLACEMENT



Specify a displacement that is added to all data as it is added to the destination region. The displacement MUST be specified as "<x,y,z>". So, for instance, to load an OAR from a 256x256 region into the middle of a larger 512x512 region, the parameter would be --displacement "<128,128,0>". Note that you can specify a "Z" displacement which will move the objects up or down. Thus --displacement "<0,0,1000>" will put all the OAR's objects up high for a sky box.

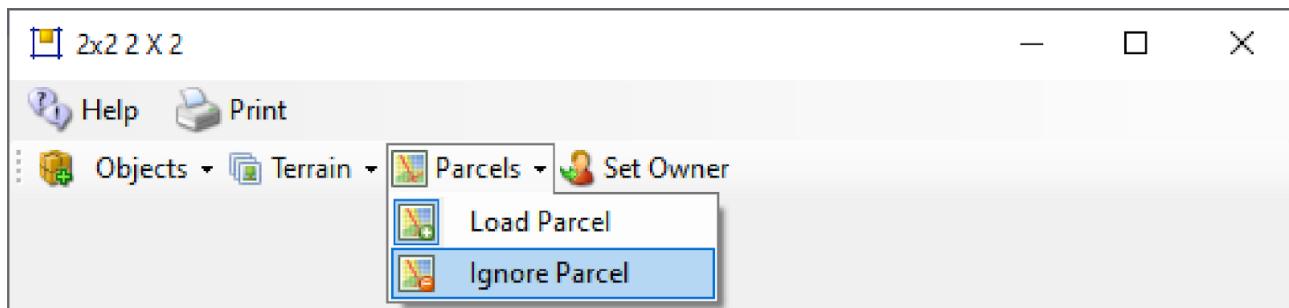
The displacement is applied to the terrain if it is included. The 'z' component is added to the terrain's heights.

--FORCE-TERRAIN



Force terrain loading on --merge. Normally, --merge does not overwrite the existing region's terrain.

--FORCE-PARCELS



Force parcel loading on --merge. Normally, --merge does not overwrite the existing region's parcel data.

--DEFAULT-USER "<FIRST-NAME> <LAST-NAME>"

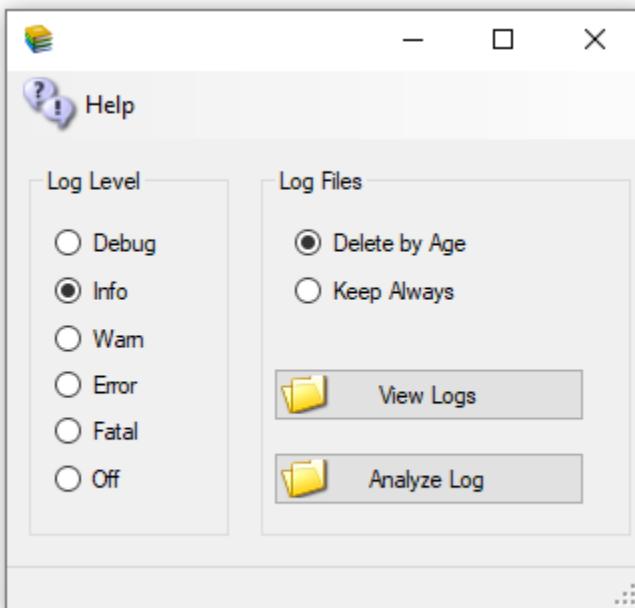
Instead of setting object ownership to the estate owner, assign it to the named user. This only applies to objects that have UUIDs that do not match any user account in the receiving grid's installation. There is currently no option that will force a change of owner for all loaded objects no matter whether they match a user in the receiving installation. One workaround to achieve this would be to save the OAR with the --publish "save oar" option to strip owner information and then reload it.

## LINKS:

[http://opensimulator.org/wiki/Load\\_Oar\\_0.9.0%2B](http://opensimulator.org/wiki/Load_Oar_0.9.0%2B)

## LOGGING

There are multiple levels of logging in Opensim:



- "DEBUG" - Developer level notices are sent to the log, plus the levels below.
- "INFO" - Useful information, plus the levels below.
- "WARN" - Warnings are logged, plus the levels below.
- "ERROR" - Errors are logged, plus the levels below.
- "FATAL" - Only Fatal errors are logged.
- "OFF" - nothing is sent to the log files.

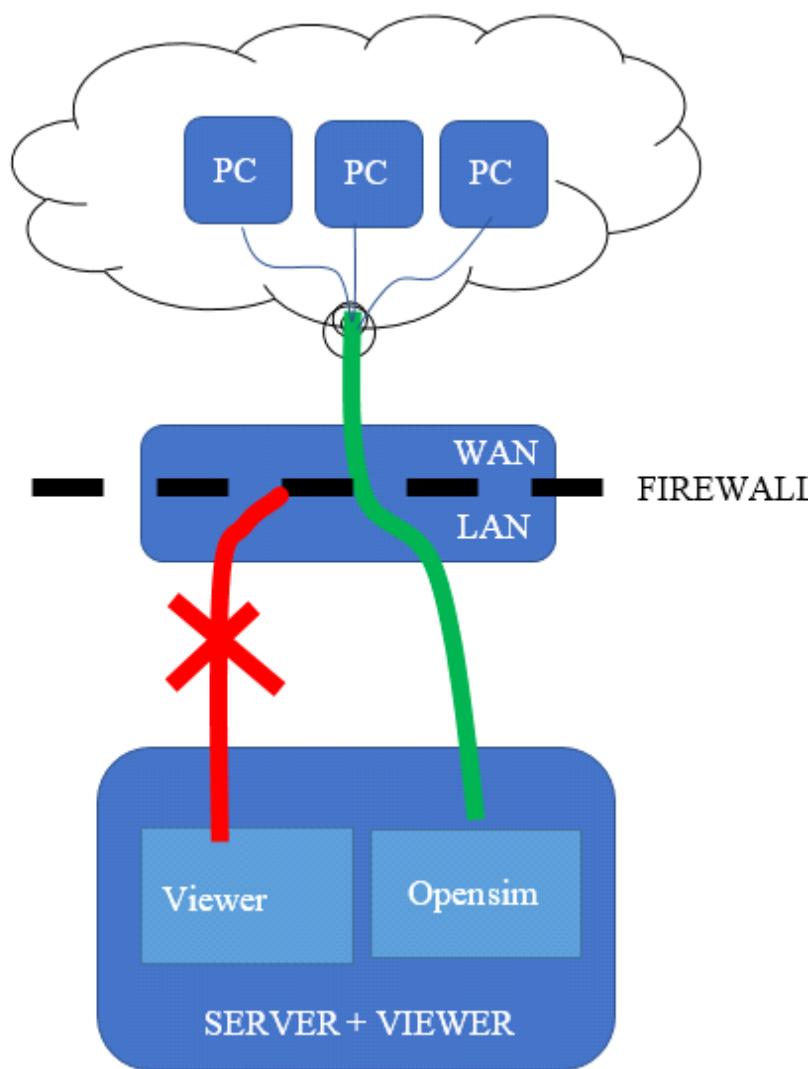
"Logs" are the Robust.Log located in Opensim\bin, and the Opensim logs located in Opensim\Bin\Regions in each DOS Box folder.

The Log File Age settings apply to most of the logs, including Apache. The Age is set in the AutoBackup settings.

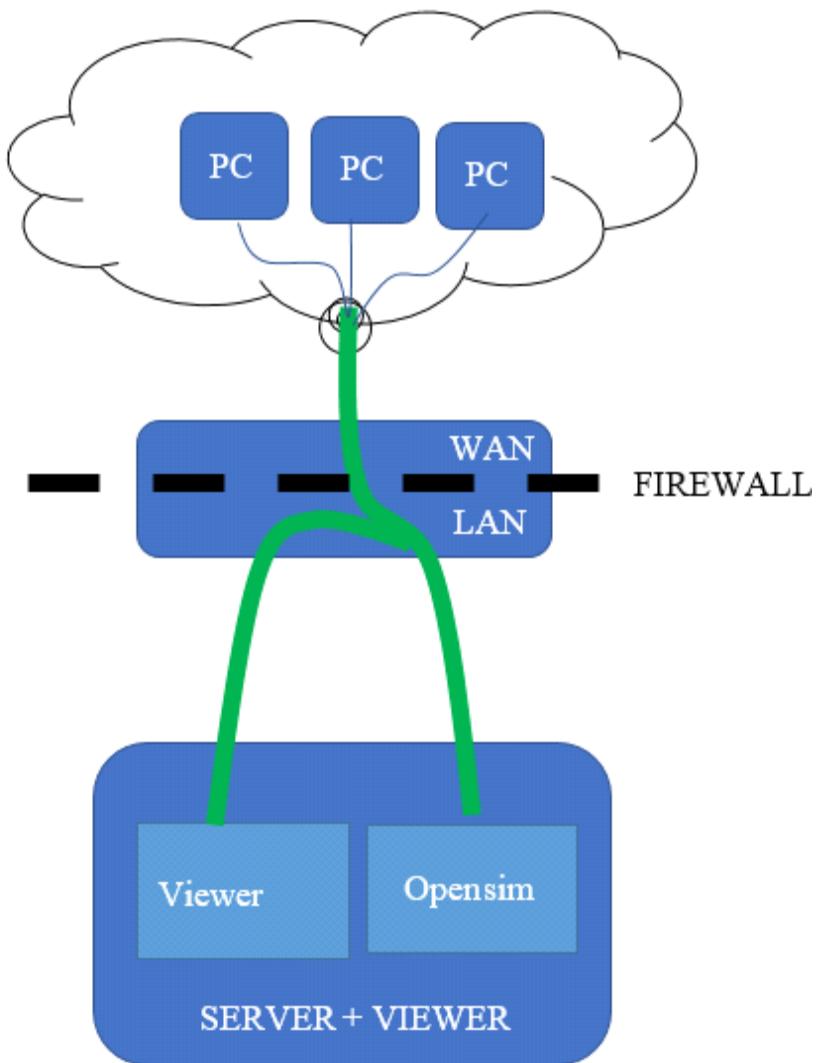
## LOOPBACK

If you are reading this, it is probably because you already know loopback is not working and clicked the Help menu to get here. You can skip down below and go right to "[How To Test for Loopback](#)".

Loopback from your router is necessary in Opensimulator if you are going to be running on the Hypergrid. The usual symptom of a broken loopback is being unable to log in to the server after switching to a Public IP or a Dynamic DNS name. If your router does not support loopback, which is common, you can install a simple fix so it can run a viewer. The loopback adapter lets a viewer on the server reach itself, as the loopback via the router is not functioning.



You cannot get to your own PC using the address of outside of the router.



#### HOW TO TEST FOR LOOPBACK

You can manually test for loopback by starting Opensimulator, then use a web browser to navigate to <http://canyouseeme.org>. Enter port 8002 and click Check Port. This must work. If not, fix the port forwarding issues and come back and try this test again. You may need to Open Ports in the firewall or disable it on the PC temporarily.

Do not install a loopback adapter until the above test passes! There is one more test to do to see if you really need to add an adapter.

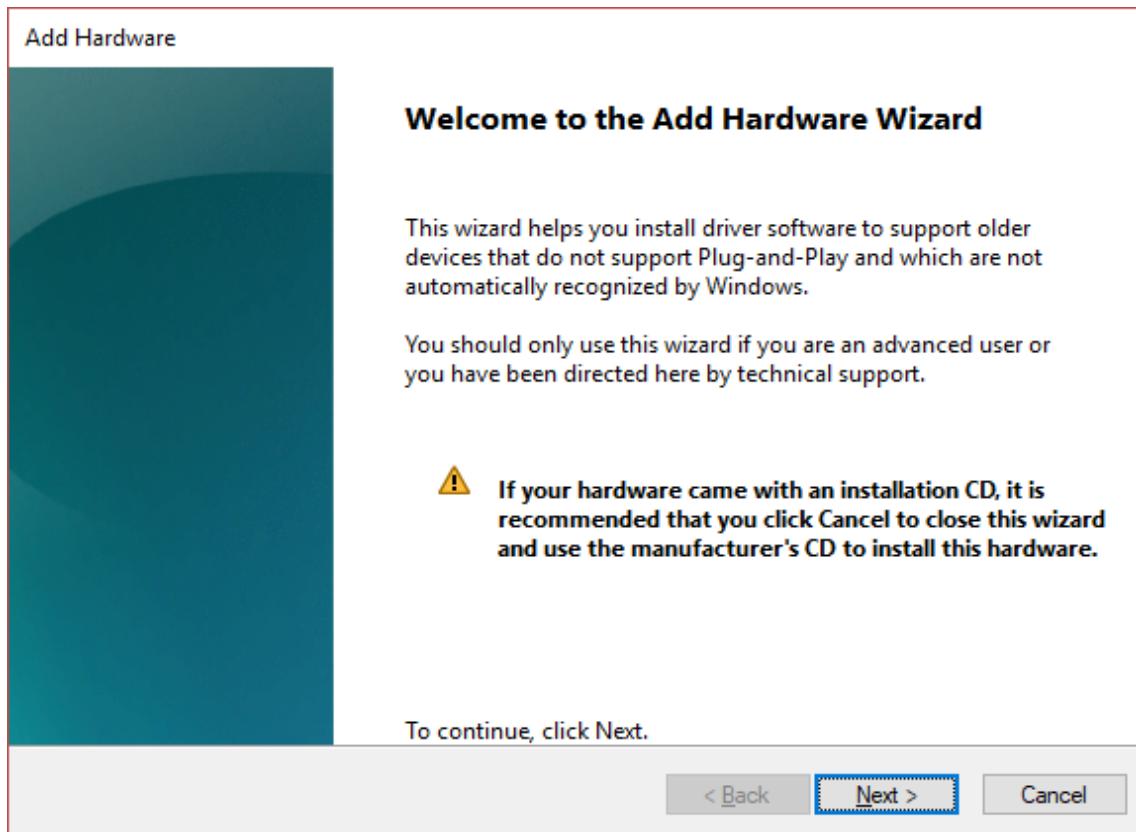
Your ports are known to be working now, so go get the Public IP of your system from <http://canyouseeme.org>. Use a web browser to navigate to [http://\(Public IP\):8002](http://(Public IP):8002). Use your Public IP where it says (Public IP).

You should get a login page. **If you get this page, loopback is working. You do not need to install an adapter** If you do not get this page, loopback is not working in your router.

#### INSTALLING THE LOOPBACK ADAPTER

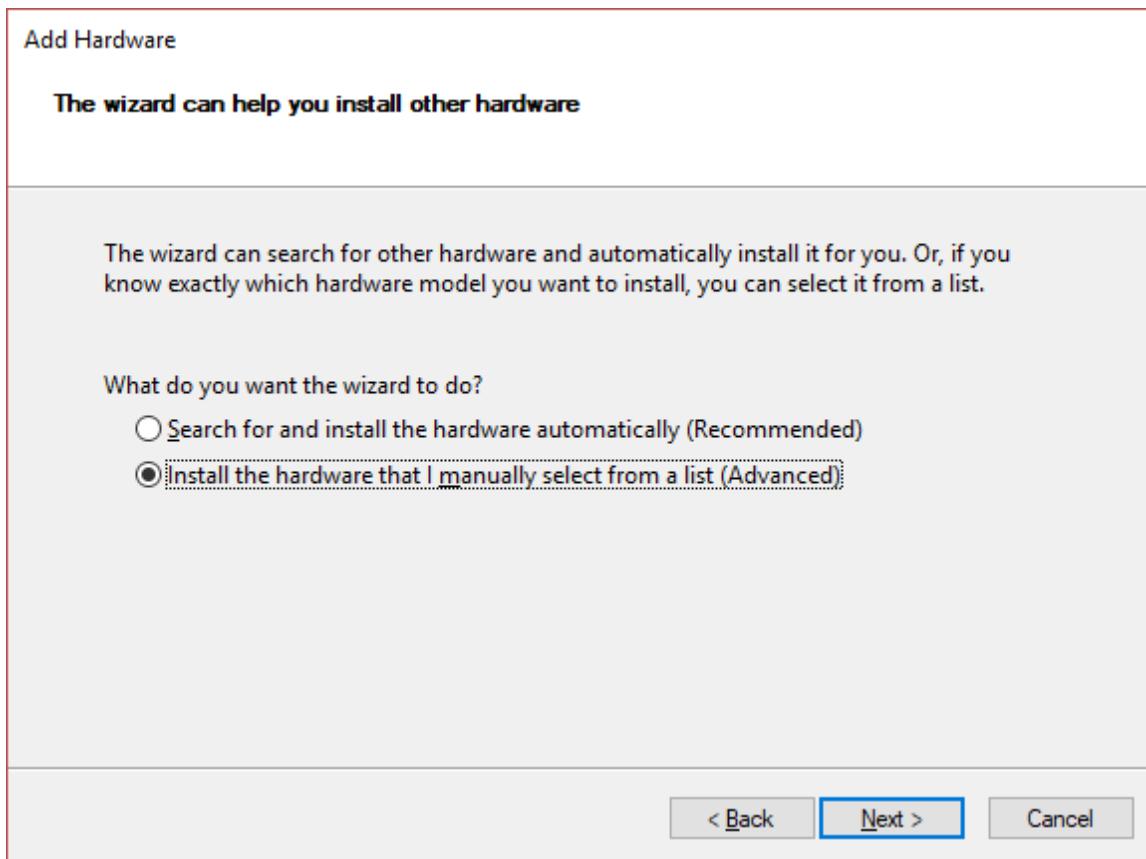
1. Click Start, then type cmd in the search box.
2. When cmd.exe appears, right-click it and choose Run as administrator.

3. In the command prompt, type hdwwiz.exe and press Enter.



4. Click Next.

5. Select **Install the hardware that I manually select from a list (Advanced)**, then click Next.



6. Select Network adapters, then click Next.

## Add Hardware

**From the list below, select the type of hardware you are installing**

If you do not see the hardware category you want, click Show All Devices.

Common hardware types:

-  Media Center Extenders
-  Memory technology devices
-  Miracast display devices
-  Mixed Reality devices
-  Modems
-  Multi-port serial adapters
-  NALDevice
-  Network adapters
-  Network Infrastructure Devices

< Back

**Next >**

Cancel

7. Select **Microsoft** as the manufacturer, select **Microsoft KM-TEST Loopback Adapter** as the adapter for Windows 10, then click Next.

## Add Hardware

Select the device driver you want to install for this hardware.



Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.

### Manufacturer

Mellanox Technologies Ltd.  
Microsoft  
MSFT

### Model

Hyper-V Virtual Switch Extension Adapter  
Microsoft Hyper-V Network Adapter  
**Microsoft KM-TEST Loopback Adapter**  
Wake on Lan pattern Install Section



This driver is digitally signed.

[Tell me why driver signing is important](#)

[Have Disk...](#)

< Back

**Next >**

Cancel

8. Select Next to confirm the installation.

## Add Hardware

The wizard is ready to install your hardware

Hardware to install:



Microsoft KM-TEST Loopback Adapter

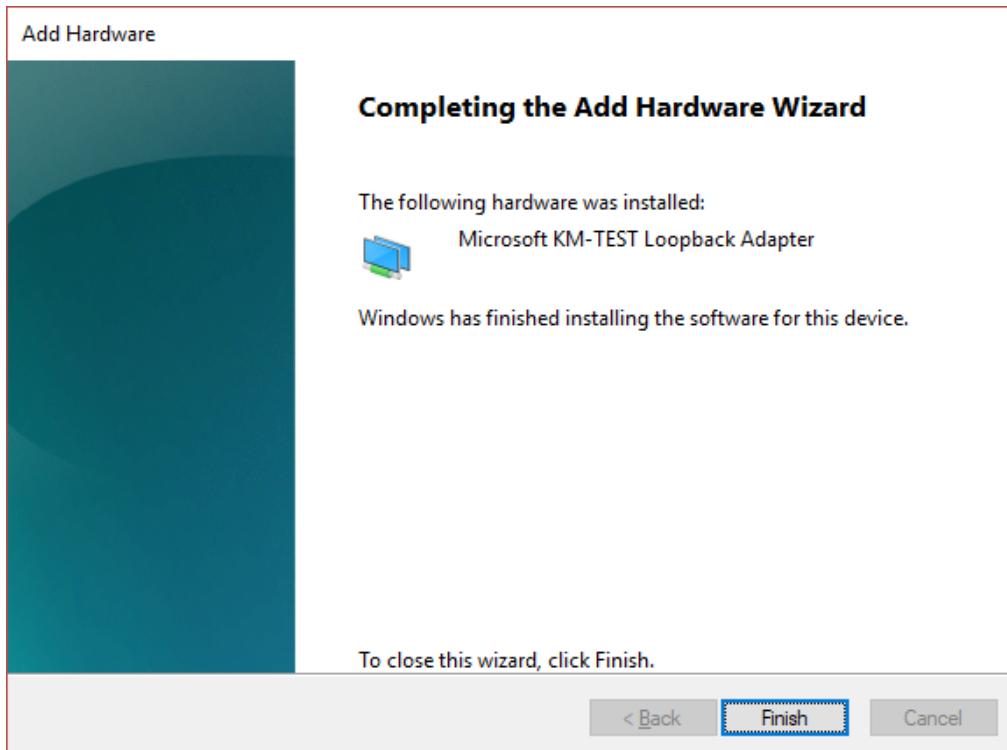
To start installing your new hardware, click Next.

< Back

**Next >**

Cancel

9. Select Finish to complete the installation.



10. Go to your Network Adapters in Control panel and rename the Microsoft Loopback Adapter to just "Loopback".

11. Exit the DreamGrid entirely if it was running, and then start it again. A black DOS box will appear as DreamGrid automatically configures your Loopback adapter.

## LSL SCRIPTING

There are several extra features in DreamGrid to help Opensim LSL work better.

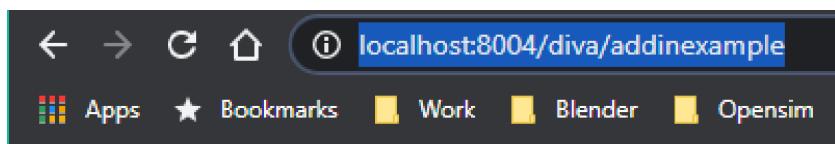
**EasyDatabase** is a way to store name=Value parameters from any script, region, or grid to any other script. See the manual for EasyDatabase.rtf

**Online Regions** can be fetched from <http://YourGrid::8002/Teleports.htm>. This is used by the Region signs you will find in Content->Load Local IARs.

**Item Giver with Notice Script** uses LSL to save the current date, a Name, and a Region to a CSV file. This makes it easy to see what and who got what item by touching a LSL giver script.

You need the password from the file Outworldzfiles\Opensim\bin\ AddinExample.ini.

To test this, fill in some sample data in <http://YourGrid::8004/diva/AddinExample.htm>. This is data associated with the very first region. You must use the port for the region you are in to write, and it must be a POST action.



## Addin Example Form

Avatar Name:

Region :

Password :

After clicking submit, you should see a confirmation the data was stored.

The data will be in Outworldzfiles\Opensim\bin\Name.csv

```

// Give with notice via HTTP
//
// Fill in your server and port, if necessary, port 80 is a default. It will connect to this with the
// parameter: ?name=(Prim Name)

string SERVER = "http://outworldz.com";

// * This function cases the script to sleep for 3.0 seconds.
// * If inventory is missing from the prim's inventory then an error is shouted on DEBUG_CHANNEL.
// * Avatar must be, or have recently been, within the same Region as sending object.
// * Does not create a folder when avatar is a prim UUID.
// o The prim must be in the same region.

//Examples
// When a user clicks this object, this script will give a folder containing everything in the objects
inventory
// This can serve as a unpacker script for boxed objects

default {

    http_request(key id, string method, string body) {
        llOwnerSay("Someone just got " + llGetObjectName());
    }
}

touch_start(integer total_number) {

    llHTTPRequest(SERVER + "?Name=" + llGetObjectName(), [], "");

    list inventory;
    اسم المحتوى
    integer num = llGetInventoryNumber(INVENTORY_ALL);
    integer i;

    for (i = 0; i < num; ++i) {
        name = llGetInventoryName(INVENTORY_ALL, i);
        if(llGetInventoryPermMask(name, MASK_NEXT) & PERM_COPY)
            inventory += name;
        else
            llSay(0, "Don't have permissions to give you \\""+name+"\\".");
    }

    //we don't want to give them this script
    i = llListFindList(inventory, [llGetScriptName()]);
    inventory = llDeleteSubList(inventory, i, i);

    if (llGetListLength(inventory) < 1) {
        llSay(0, "No items to offer.");

    } else {
        // give folder to agent, use name of object as name of folder we are giving
        llGiveInventoryList(llDetectedKey(0), llGetObjectName(), inventory);
        llHTTPRequest(SERVER, [], llGetObjectName());
    }
}
}

```

## MAP OVERIDES

#### Maps

- Use Default
- None
- Simple but fast
- Good (Warp3D)
- Better (Prims, Slow)
- Best (Prims + Mesh, Very Slow)

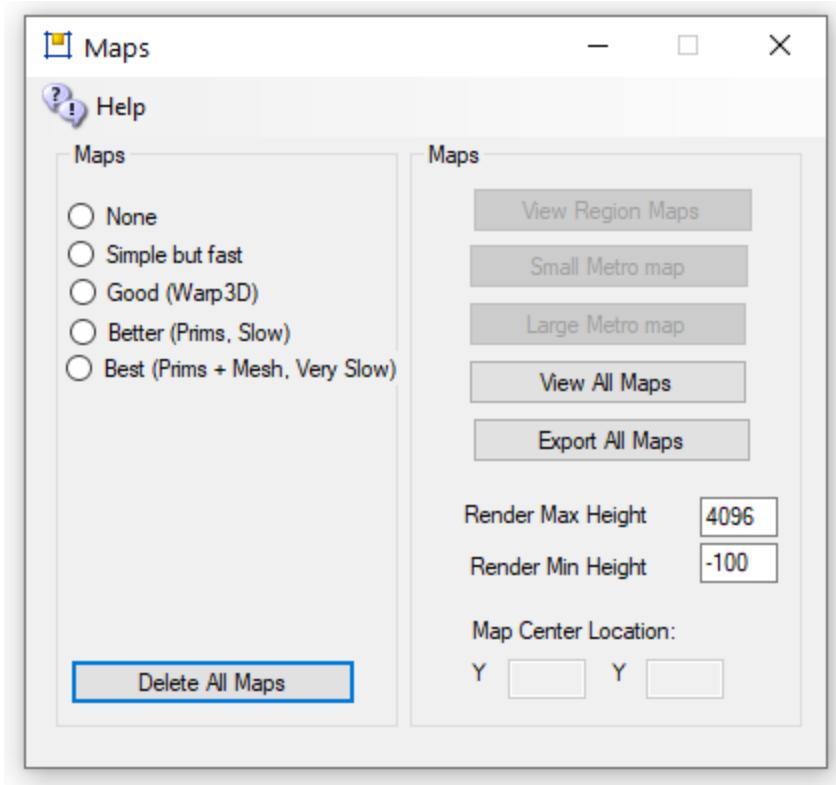
The Map Overrides change this one region's map making.

- **None:** No maps will be made. This is a good setting as the regions will boot very quickly. Any existing maps are kept.
- **Simple but Fast:** MapImageModule is used with just Land showing.
- **Good:** Uses Warp3D module with just Land showing.
- **Better:** Uses Warp3D module with Land, Prims, and land Textures showing.
- **Best:** Uses Warp3D module with Land, Prims, Mesh, Sculpts, and all Textures including prims showing.

## MAPS

Opensim has many different maps settings. DreamGrid has multiple easy-to-use combinations. Opensimulator has several Map tile makers which vary in quality, and speed. It can take an exceedingly long time to boot when using the Better and Best maps. These maps which use the Warp3D engine must load all prims, mesh, and textures, so it takes a long time to generate new maps. Also, any bad textures may cause harmless errors from corrupted assets to appear on your console.

I recommend you run all maps at Best setting once, then set Maps to None. You can remake maps when enough changes have been made.



- **None:** No maps will be made. This is a good setting as the regions will boot very quickly. Any existing maps are not deleted.
- **Simple but Fast:** MapImageModule is used with just Land showing
- **Good:** Uses Warp3D module with just Land showing
- **Better:** Uses Warp3D module with Land, Prims, and land Textures showing
- **Best:** Uses Warp3D module with Land, Prims, Mesh, Sculpts, and all Textures including prims showing.
- **Delete All Maps:** If you delete a region the map will remain. Click this to clear out all maps. You will need to regenerate all maps again by choosing a setting and restarting all regions.
- **View Map Web page:** Enabled if your system is running. Opens a web browser to <http://localhost:8002/wifi/map.htm>.
- **Small Metro Map and Large Metro Maps:** Available only if your Apache/PHP is enabled in Settings Web Pages. These maps are generated by PHP and Apache web server.
- **View All Maps** displays all maps. You can save or print them. Clicking a map causes it to exit.
- **Render Max Height** can be changed to not show skyboxes.
- **Render Min Height** can be changed to not show water or ground structure.

#### MANUAL REGENERATION

Normally you would generate map tiles at startup. You can also manually force map tile regeneration with the console command 'generate map<enter>'.

A) Go to Setup Settings->Maps and erase them all with "Delete All Maps"

- B) Now choose "Best (prims + Mesh Very Slow)"
  - C) Close this window which saves the new Global setting.
  - D) Press Start.
- E) Once all the regions have booted to the DOS boxes, set map back to "None". They can still be making maps. They just need to all be starting up and then you can change the Global Settings.
- The next time you boot, the regions will load very quickly as the maps will not be remade. Maps only need to be cleared when you delete a region or move them around.
- F) Each region has an override setting. If set, the override will choose a different setting for maps.

Example: I leave the global maps off all the time. But I may be working heavily on a region and changing it around, and want that to appear after every reboot. I go to the Regions List and click the Region and set the override to the desired setting, and reboot the region

## MIGRATION FROM DREAMWORLD TO DREAMGRID

Migrating from a Standalone Dreamworld to a Gridded Dreamgrid requires you to take special steps.

Start your original Dreamworld. Dump the database by clicking the Content-> Backup Database menu. This makes a backup in the AutoBackup folder in the Standalone Dreamworld.

Create a new DreamGrid, but before you start, set the robust name to opensim and the robust userid to opensimuser and the robust password to opensimpassword. These are the same as in the lower section for the Regions database. Also fill in the various Setting menus for the name and ports to match the original Standalone Dreamworld.

Then click [Start]. This boots MySQL on the new grid. It will start Robust and a new Welcome region (even if it has the same name, it has a random UUID so will be different). Then shut the grid down gracefully by clicking [Stop]. This left the DreamGrid menu enabled and MySQL running.

Navigate to the DreamGrid's Content->Restore Database menu and browse to the original Dreamworld's AutoBackup folder. Click the .sql file you just made. This will load the OpenSim.sql file into the new grid.

## REGION FILES

You will need to move your region.ini file. You cannot just copy them over in a file explorer unless you make a special pattern of folders.

Open the Region Panel with Ctr-R or go to Setting->Region. Delete the existing Welcome region.

Now click Import and browse to the Opensim\bin\region folder in the OLD dreamworld and import them one at a time.

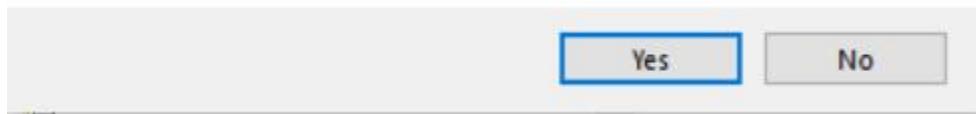
There will be anywhere from one-to-any Region.INI files in your old system. There is no need to load from OAR files.

Use the Import button and locate the original Dreamworld location on your disk. Look in Outworldsfiles\Opensim\bin\Regions. If you are running 0.9.0, look in Outworldsfiles\Opensim-0.9\bin\Regions

## Grouping Regions



New regions can be combined with other regions in an existing DOS box (Yes), or run in their own Dos Box (No)



Yes: If you answer Yes, a Chooser dialog will appear. You must choose which region you want to combine your new region with. This places both regions into a single DOS box.

No: If you answer No, you will get a different DOS box when this region starts.

You should limit the number of DOS boxes by combining your regions into logical groups. A typical system will run 4 to 8 such groups. You can run more, but you will pay a penalty in RAM use for each box.

## STARTING UP

Now click [Start] to boot the new grid. You can log in with the Standalone grids user names at this point. Your inventory should be there. The regions will appear.

## MODULES

### Modules

- Bird Module
- Enable the tide to come in and out?
- Teleport Sign Enable
- Disable All Gloebits
- Disable Foreign Visitors
- Disable All Residents
- Skip Automatic OAR backup
- Announce Visitors

**Bird module** makes flocks of birds possible. See the help manual on Birds. This must be enabled for birds to appear in a region.

**Enable Tides** makes the water level rise and fall in this region. See the help manual on Tides. This must be enabled for tide to appear in a region.

**Teleport Sign Enable** lets you use a standardized Outworldz Teleport Sign to direct visitors in your world. This sign is located in the Content-Inventory IAR Load and Save ->Local IAR menu. There are multiple variations of the sign.

**Outworldz Teleport System.iar** is a standardized sign for all uses.

**Outworldz Teleport System V3.9.iar** is for testing of the Smart Start system and is subject to change.

**Disable all Gloebits** should stop the Gloebits system on this region.

**Disable Foreign Visitors** will prevent hypergrid visitors from entering your region.

**Disable Residents** will prevent all resident from entering your region. Only Estate managers or owners can get in.

**Skip Automatic OAR backup** will prevent the automatic OAR system from backing up this region.

**Announce visitors** will chat any arrivals or departures.

## MOVING A DREAMGRID TO ANOTHER FOLDER OR PC

There are no dependencies outside of the DreamGrid folder to copy to a new location.

### METHOD 1

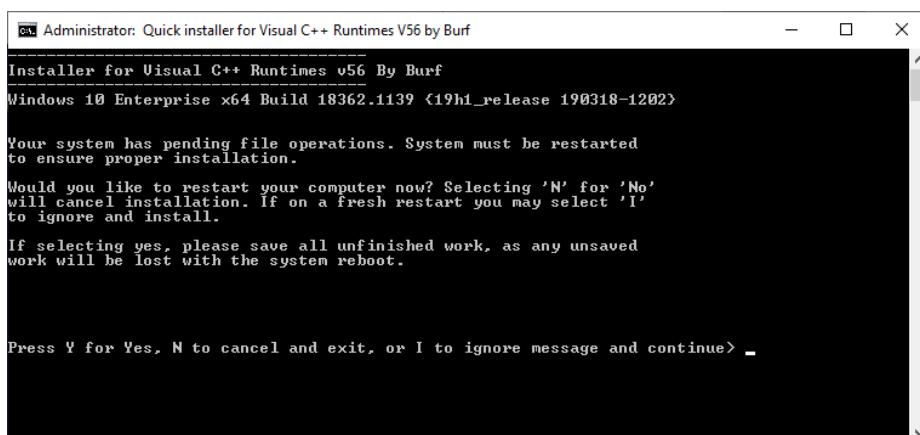
Stop the original grid and go to Setup->Setting->Caches. Select and clear all the caches. These do not need to be copied and are huge. Opensim will recreate them as needed. The states of scripts will be maintained as the .STATE files are not deleted.

Now copy the entire folder from one machine to the other or from one folder to another.

### METHOD 2

Another method is to unzip a new copy of DreamGrid on the destination machine. Then copy the file Outworldzfiles\Settings.ini, Outworldzfiles\mysql\data, Outworldzfiles\opensim\bin\fsassets and Outworldzfiles\opensim\bin\regions to the second machine or folder.

If you are running the Apache web server (for jOpensim Or Maps), install the service packs in Setting->Apache, which is also in the folder MSFT\_Runtimes.



It may ask to reboot. There is no need to reboot. If it asks, type 'i' to ignore, then 'y' to install.

**Router:** You will need to port forward to the new IP if you are on the hypergrid.

**Anti Virus:** If setting up a new computer, you will want to check that any 3rd party anti-virus is not blocking ports. Also add an exclusion to the Opensim\bin folder to the Real-time component of any virus scanner as this area gets heavy use of Script DLLS, and it will cause issues with scripts starting up or being created. Opensim does not create viruses, and all my code is digitally encrypted and signed by Microsoft Authenticode and will not run if even a single bit changes.

### METHOD 3

All these ways to copy the files depends upon copying up to a million or more files. In particular, Msql's ibdata file and the Outworldzfiles\opensim\bin\fsassets folder are extremely large.

#### RUNNING DREAMGRID ON A SERVER

One of the difficulties in moving to a server such as Contabo.com is moving the files to it.

The big problem is mysql\data\ibdata - which is literally your grid and must be moved. There are many ways to do this: Google drive, dropbox, ftp, but most of those require \$\$ or are slow. One way is to use Windows SMB file sharing.

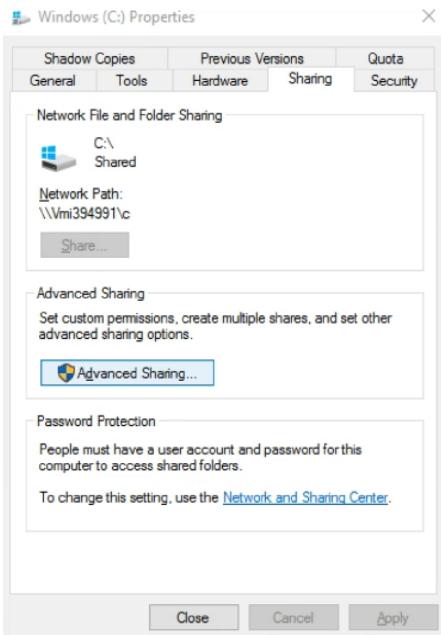
The remote server can appear as a local disk, such as X: or Z: with SMB file shares so you can copy and paste files. This makes it trivially easy to make backups and move OARs and backups off Contabo and store them at your home.

#### LOG INTO YOUR SERVER

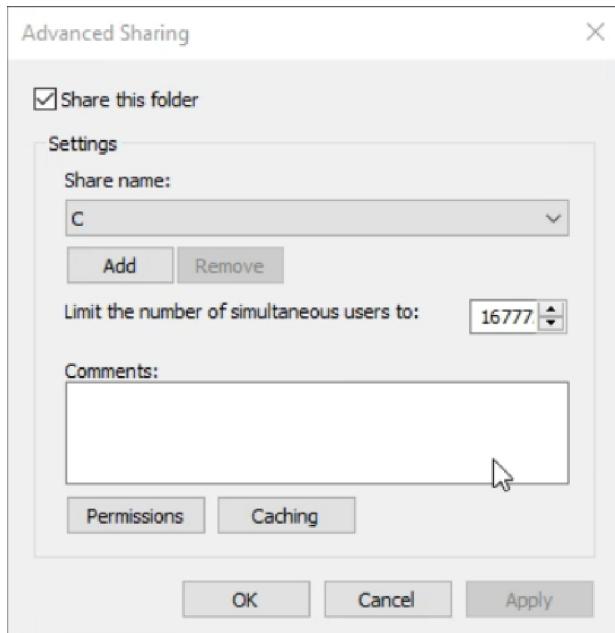
Log in with remote desktop or VNC as an Administrator. You need a strong password for your account! Don't skimp on this step, as your server is exposed to the internet in an intimate way, and it will be probed constantly for weaknesses.

Now choose a folder. The safest way to share is by making a shared folder, such as your AUTOBACKUP folder. If someone guesses your password, then all they get are backups. And you can share the entire drive, too.

Right click a folder or C: and select Properties.

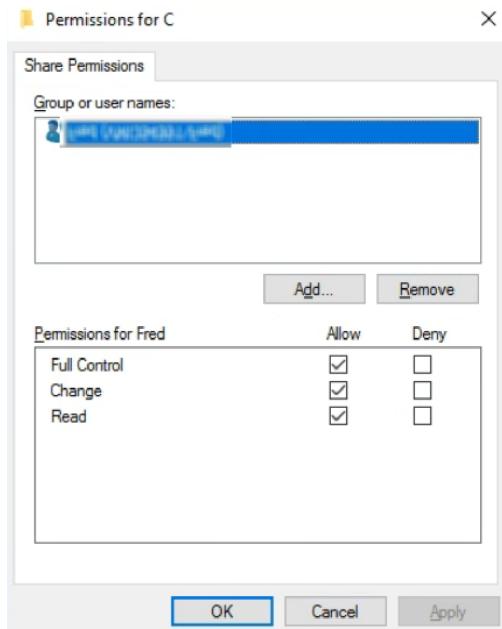


Click Advanced Sharing:



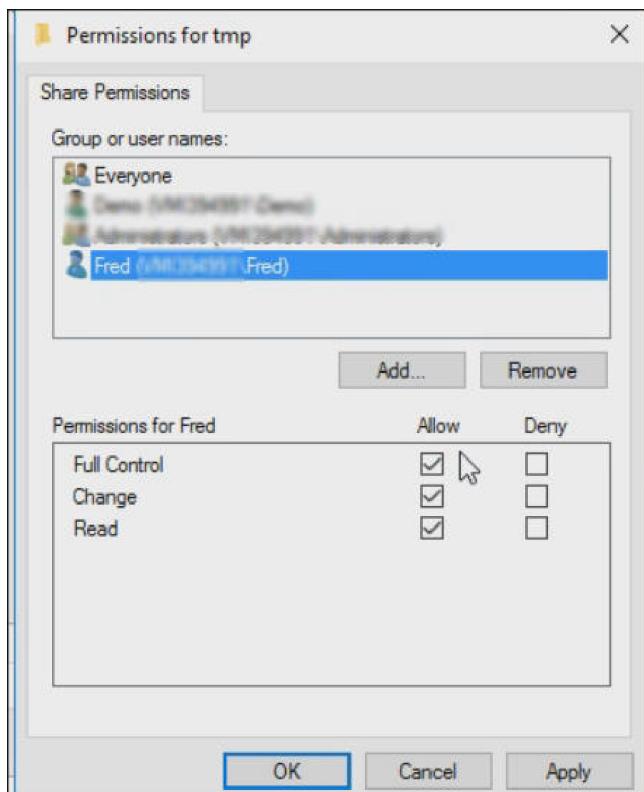
Click Add and give it a name, such as "C", and check "Share this folder"

Click Permissions:



Remove the "Everyone" group and click Add and type in your login name.

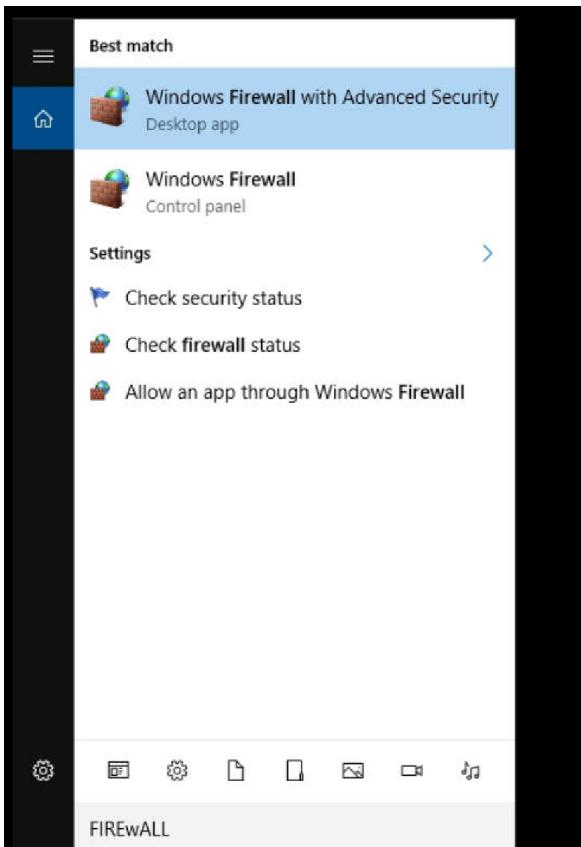
Press OK



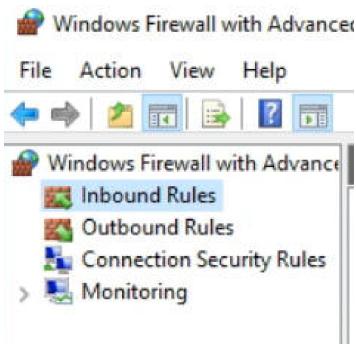
Check "Full control" so all three permissions are lit up.

Click OK

You need to enable some ports in Windows Server. Go to Control panel or search for Advanced Firewall.



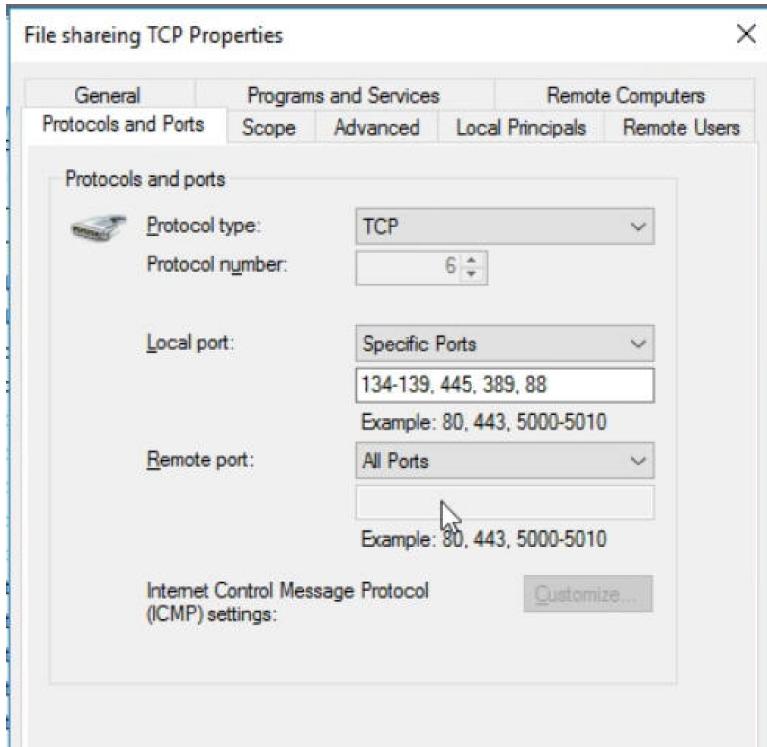
In the firewall screen, click Inbound Rules



On the right side, click New Rule

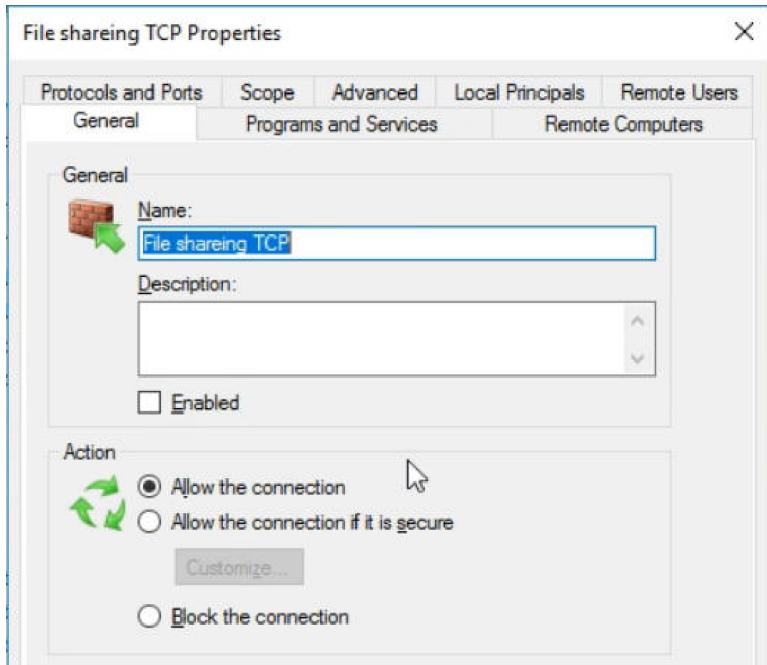


Give it a name such as "File Sharing TCP"



In Protocols and Ports Select TCP and add the following ports:

134-139, 445, 389, 88



Repeat the above steps for a name such as "File Sharing UDP"

Repeat the step "Protocols and Ports" Select **UDP** and add the following ports:

134-139, 445, 389, 88

Click Apply

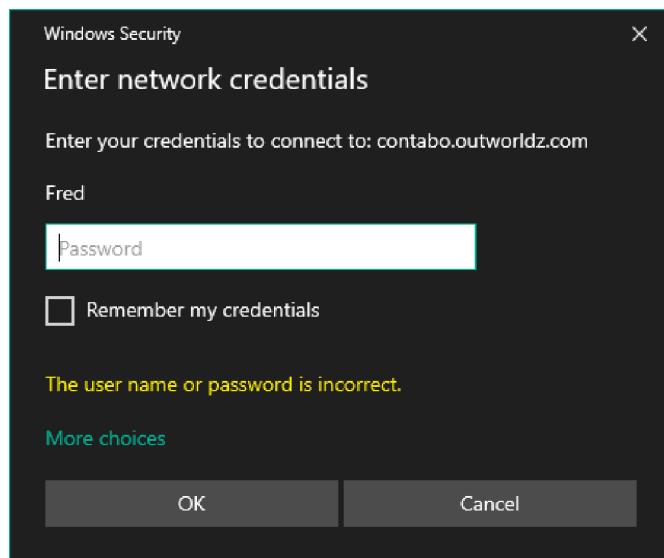
## SHARING FILES TO AND FROM YOUR SERVER

To connect, you can use the IP, DNS name, or Outworldz.net name. This is the same name you connect to Contabo in VNC or Remote Desktop,

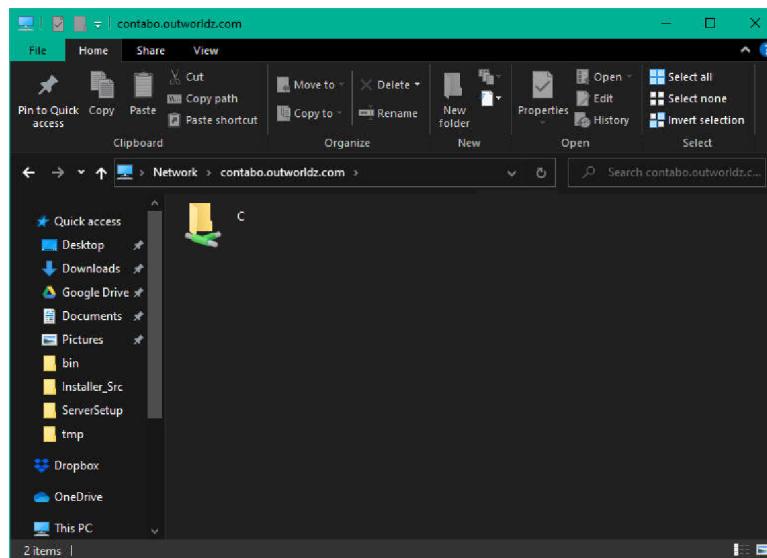
Go to File Explorer in Windows at your Home PC. You can get there by pressing the Windows Logo key and the 'e' key at the same time.

Type two back slashes \\ in the address bar and then the name of your server:

You should get a password prompt:



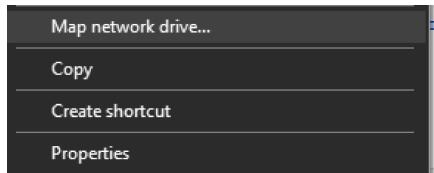
Enter your password and you should see the share name that you set up.



You can use this name and path as if it is local to your PC and drag and drop files to it. Or Copy and Paste.

You can also Map a drive letter to it.

Right click the folder and select "Map Network Drive"



Choose a drive letter and click Apply

Now you can simply go to the drive letter and access your server. [Backups:](#)

Now that your server is set up for file access, you can use programs such as robocopy (free, built into windows), and paid backup programs such as SyncBack to move or copy your grid to your home PC on a regular basis.

Example: I created map drive as X: to a folder on the server and added a batch file named Backup.bat.

I then ran this from the server as X:/backup.bat and it copied my Servers [X:\tmp](#) folder to my home [PCC:\tmp](#) folder.

You can now use robocopy to backup your entire grid, or the Backup folder with one simple command "X:/Backup" by changing the folder names in the batch file.

PS X:\>.\Backup.bat

X:\>robocopy X:\tmp c:\tmp /e

---

ROBOCOPY :: Robust File Copy for Windows

---

Started : Monday, October 19, 2020 11:38:27 PM

Source : X:\tmp\

Dest : c:\tmp\

Files : \*.\*

Options : \*.\* /S /E /DCOPY:DA /COPY:DAT /R:1000000 /W:30

---

0 X:\tmp\

New Dir 0 X:\tmp\A\

---

Total Copied Skipped Mismatch FAILED Extras

Dirs : 2 1 1 0 0 1

Files : 0 0 0 0 0 8

Bytes : 0 0 0 0 27.63 m

Times : 0:00:00 0:00:00 0:00:00 0:00:00

Ended : Monday, October 19, 2020 11:38:28 PM

PS X:\>

## OPTIONS

This has optional items that are part of standard Opensim you may choose to change.

Regions	
1011	Y
1003	Y
1024	Nonphysical Prim Size
64	Physical Prim Max Size
15000	Max Number of Prims in a Parcel
100	Max number of Avatars + NPCs
<input type="checkbox"/>	Clamp Prim Size
723b6f6c-2e47-4b94-a33d-20ba5d586fb4 <b>UUID</b>	

The Options page has the (x, y) Global location of the region on the grid. You can set regions next to each other by changing the X and Y coordinates and restarting the region. The X and Y is the lower left point on the global map.

If you get messages saying that regions overlap, change the coordinates to some substantial number and retry the region boot.

**UUID:** You can only change the UUID of the grid is stopped. Never change the UUID unless you want to start with a blank region again. Altering the UUID will force the system to create a new, blank region the next time the grid starts, and you will be forced to move your region to another spot if it is not deregistered. This is a read-only field when the grid is running. You can only change this by stopping the grid.

**MaxAgents:** The maximum number of agents that can be in the in the region at any given time. The default is 100.

**MaxPrims:** The maximum number of prims that the region will be listed as supporting. However, this limit is not currently enforced by OpenSimulator. Due to LL protocol constraints, the maximum limit that can be shown is 45000.

**PhysicalPrimMax:** The maximum dimensions of a physical prim. This is a single number which applies to X, Y and Z co-ordinates. This will affect resizing of existing prims. Default is 10.

**NonphysicalPrimMax:** The maximum dimensions for a non-physical prim. This is a single number which applies to X, Y and Z co-ordinates. This will affect resizing of existing prims. Default is 256.

**ClampPrimSize:** If true then if a viewer attempts to create a prim which has any dimension larger than the NonphysicalPrimMax, then that dimension is reduced to NonphysicalPrimMax. Default is false.

## PERMISSION OVERRIDES

Permissions

Use Default

Allow Level-based gods

Region Owner is God

Estate Manager is god

**Allow Gods:** God mode is available to selected people if enabled. These levels can be set for individual users in the Web control panel.

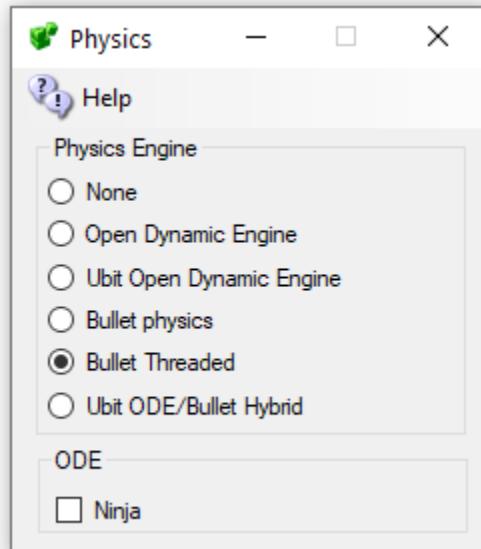
- Level = 0 is a normal user
- Level = 50 (or a level you set) is used to indicate a privileged user (eg who can set up new Hypergrid linked regions)
- Level = 100 is a Wifi admin account user
- Level  $\geq$  200 can become a God

**Estate Owner is God:** If enabled, the region owner may go into God mode.

**Estate Manager is God:** If enabled, any region estate manager may go into God mode.

## PHYSICS ENGINE

The Physics selection box lets you set basic physics, where the only collidable object is a box shape. It supports the original Open Dynamic Engine physics. The **ubODE** engine, by Ubit Umarov, is an advanced version of ODE that is closer to Second Life compatibility with vehicles. Bullet is an award-winning physics engine.



- ODE is a very old physics engine with many limitations. It does support Ninja Physics.
- UBODE is closer to Second Life in vehicle performance.
- Both BulletSim and UBODE support varregions.
- BulletSim provides the best performance and most functionality.
- Bullet in a separate thread prevents physics crashes from crashing the region. It is the default physics engine.
- ODE Ninja physics are documented in another manual.

## LINKS:

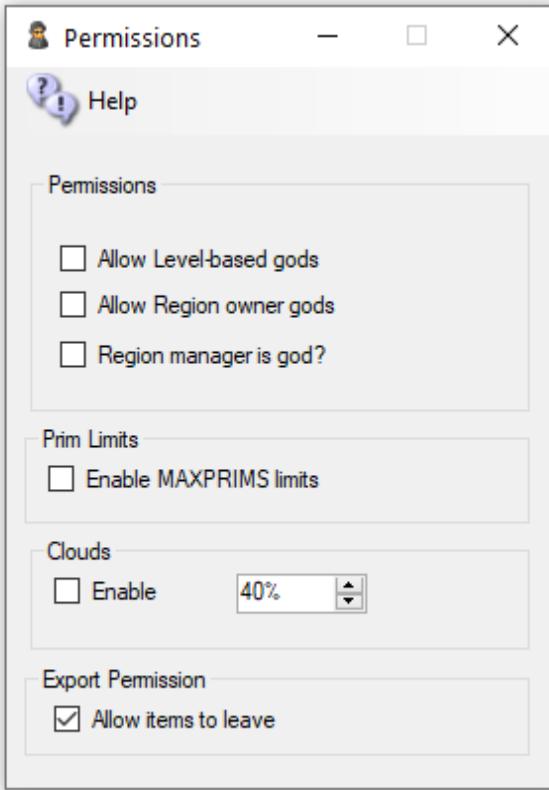
<http://www.ode.org/>

[https://en.wikipedia.org/wiki/Bullet\\_\(software\)](https://en.wikipedia.org/wiki/Bullet_(software))

## PERMISSIONS

Grid god mode allows certain users to take and control permissions over objects. Setting Grid God Mode on allows you to control individual users by editing their access level in the Wifi Users Panel. Any user with a level > 100 will be a grid god. You can set any estate owner or estate manager to be a grid god, too. Users can become Gods by using the Request Admin Level button in the Advanced Viewer menu.

God mode is a useful function. However, making copies of items that are no copy or no transfer and giving them to others could be illegal. Please remember that copyright laws for your country need to be respected.



**Allow Gods:** God mode is available to selected people if enabled. These levels can be set for individual users in the Web control panel.

Level = 0 is a normal user

Level = 50 (or a level you set) is used to indicate a privileged user (eg who can set up new Hypergrid linked regions)

Level = 100 is a Wifi admin account user

Level >= 200 can become a God

**Estate Owner is God:** If enabled, the region owner may go into God mode.

**Estate Manager is God:** If enabled, any region estate manager may go into God mode.

**Prim Limits:** Opensimulator normally does not enforce limits on the number of prims for a region or a parcel. The viewer can show a maximum of 45,000 prims.

You can lower or raise any region limit in the Regions Control panel.

Default: Unchecked

**Clouds:** The original particle clouds from the early days of Second Life are still available for older viewers such as Singularity.

Default: Checked

**Export:** Export Checkbox can disallow export of prims by a viewer. Default -> Allow

## PHYSICS OVERRIDES

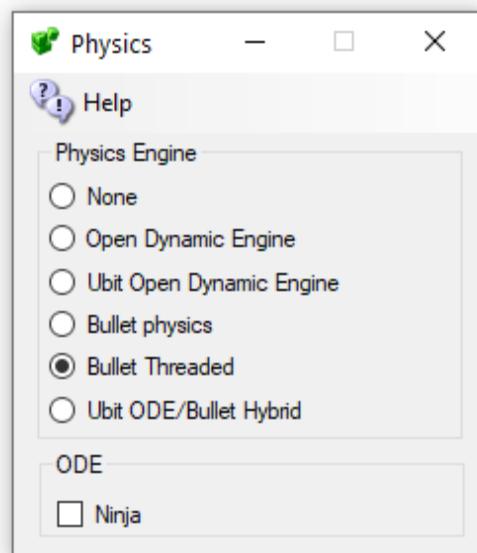
### Physics

- Use Default
- Open Dynamic Engine
- Ubit Open Dynamic Engine
- Bullet physics
- Bullet physics in separate thread
- Hybrid

- ODE is a very old physics engine with many limitations. It does support Ninja Physics.
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## PHYSICS ENGINE

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#### LINKS:

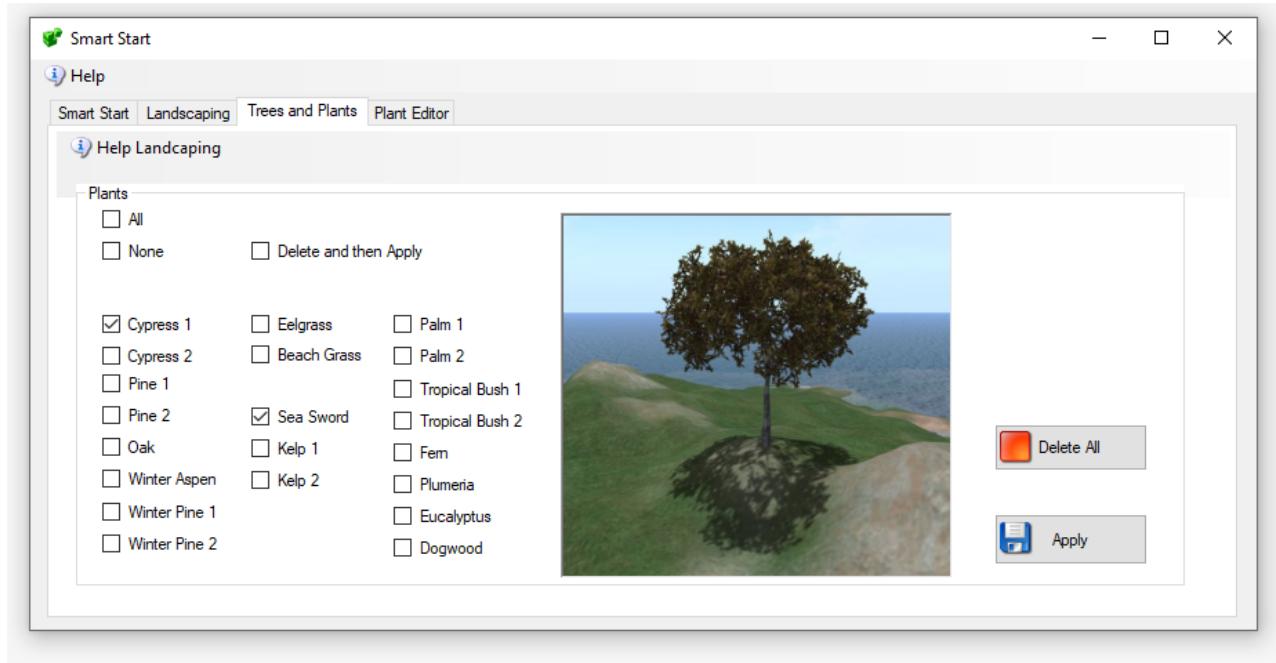
<http://www.ode.org/>

[https://en.wikipedia.org/wiki/Bullet\\_\(software\)](https://en.wikipedia.org/wiki/Bullet_(software))

#### PLANT EDITOR

The Plant Setting lets you easily save, restore and add Trees and Plants to regions. It is used with Smart Start “Automatic Sim Surround” to create regions with water or various landforms as you drive, fly or boat across Opensim.

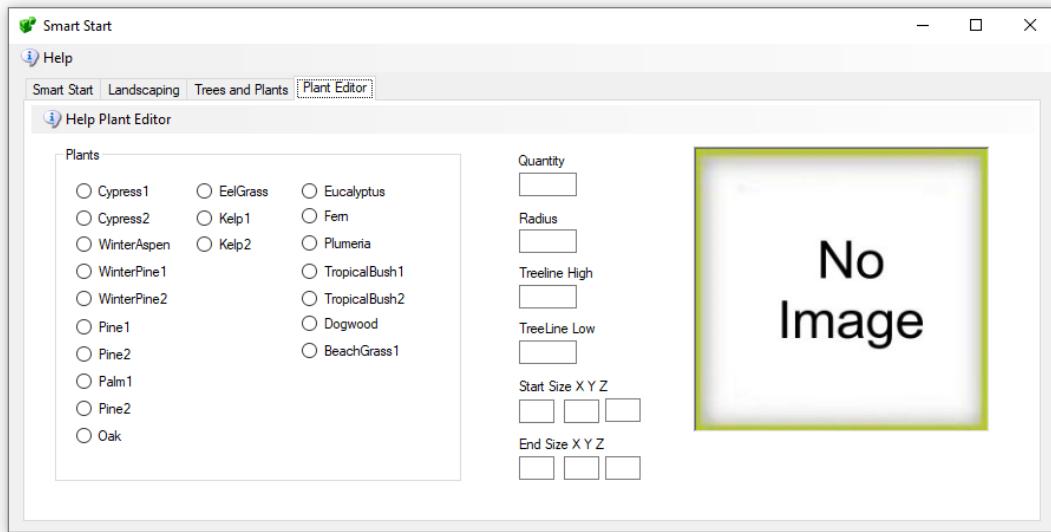
#### TREES AND PLANTS



**Apply:** Plants the tree or plant that is selected. It will be placed on any chosen region when you click Apply.

Delete All. Deletes any AI-planted tree on this region.

## PLANT EDITOR



The Plant editor can modify any of the plants.

First, Choose a plant. They are categorized by a range of heights they will be placed within.

The larger trees are planted higher than grasses. The Eelgrass and Kelp will only be planted underwater.

**Quantity** - A random number of plants, from 0 to N plants, will be created.

**Radius** - The plants start in the middle and are sprayed onto the land in a circle. A radius of ~ 300 seems to fill most of a Standard 256 X 256.

**Tree Line High** – is the highest place a tree is planted.

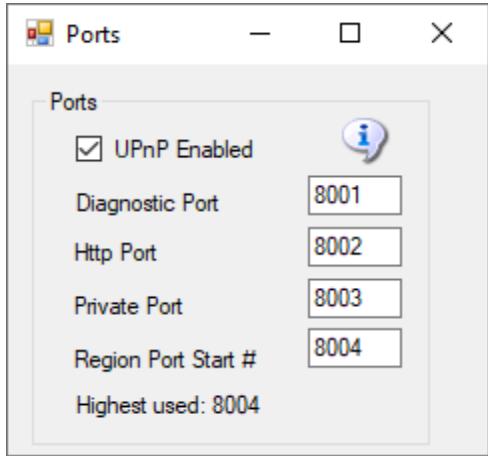
**Tree Line Low** – is the lowest place a tree will be planted. Water is at 20 usually, so a 20 would be right to the edge of a beach.

**Start Size X, Y, Z** – The size of the tree at the start of the growth cycle.

**Stop Size X, Y, Z** – The size of the tree at the end of the growth cycle.

## PORT SETTINGS AND UPnP

Multiple TCP and UDP Ports are used in Opensim. The defaults are shown below.



The defaults are 8001 (Diagnostic), 8002 (Public) , 8003 (Private) and 8004 (Starting Region). If you have manually added more regions, their region ports also need to be open. Each region that is used takes up one port. They start at 8004 and count up by one.

#### PORT FORWARDS:

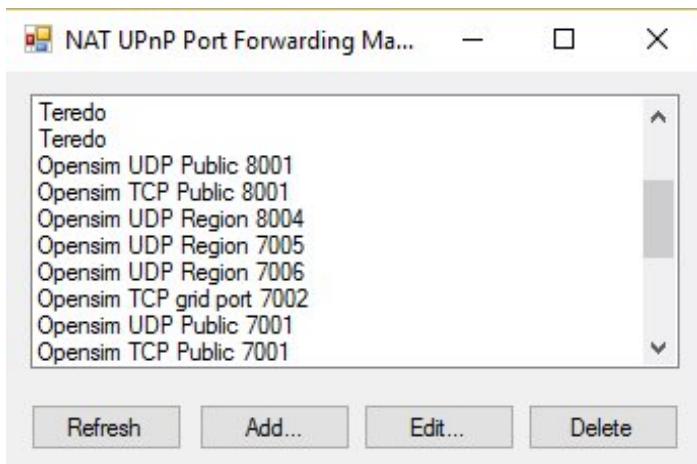
See the section on [Troubleshooting Ports](#) on how to manually set the ports.

**UPnP Enabled:** The Outworldz program uses Universal Plug and Play (UPnP) to automatically allow data to come from the Internet to your computer. This is called "Port Forwarding". UPnP capability may be disabled in your router, or it may not support it.

You may need to stop the SSDP Service to prevent this service from intercepting these messages.

If UPnP is enabled and your router supports it, DreamGrid will automatically open the correct ports. This can be slow and time-consuming, so you may prefer to disable UPnP and set your ports manually

Do you have Plug and Play (UPnP) issues? The DreamGrid help menu has a useful tool to look at uPnP in your router:



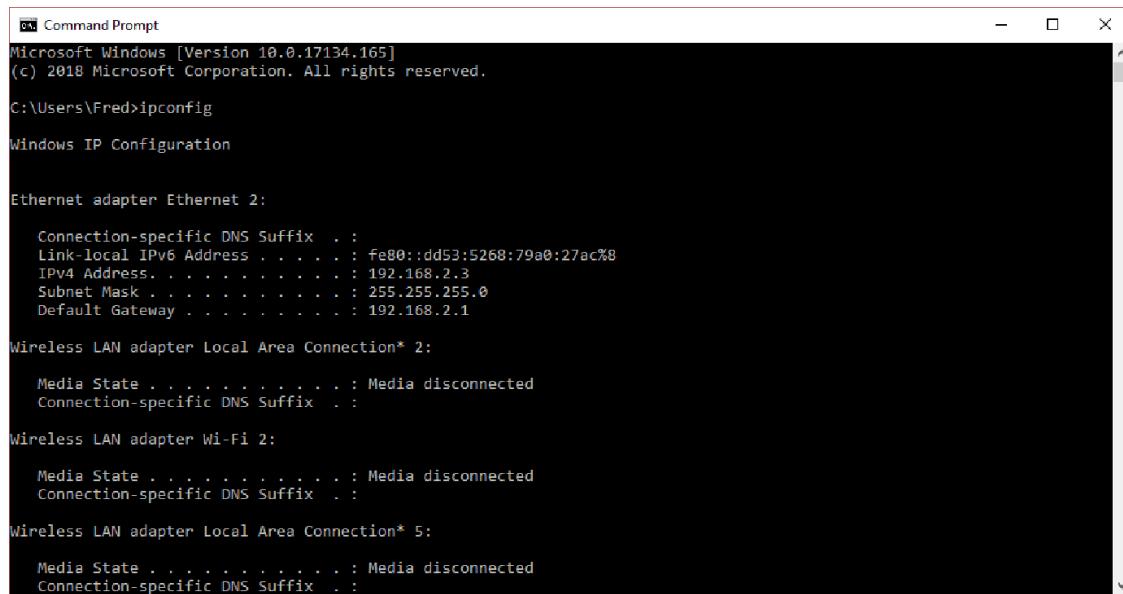
UPnp (Universal Plug and Play) Tool for Windows

You can add, delete, and modify the settings without a password, assuming you have UPnP enabled. This tool is available in Dreamworld and DreamGrid in the Help menu.

#### TROUBLESHOOTING PORTS

A list of routers and instructions is at <http://www.portforward.com> which can help you identify your router type.

Step 1) Get your PC LAN IP address by going to a DOS prompt and typing 'ipconfig'.



```
Command Prompt
Microsoft Windows [Version 10.0.17134.165]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Fred>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet 2:

  Connection-specific DNS Suffix . :
  Link-local IPv6 Address . . . . . : fe80::dd53:5268:79a0:27ac%8
  IPv4 Address . . . . . : 192.168.2.3
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . . : 192.168.2.1

Wireless LAN adapter Local Area Connection* 2:

  Media State . . . . . : Media disconnected
  Connection-specific DNS Suffix . :

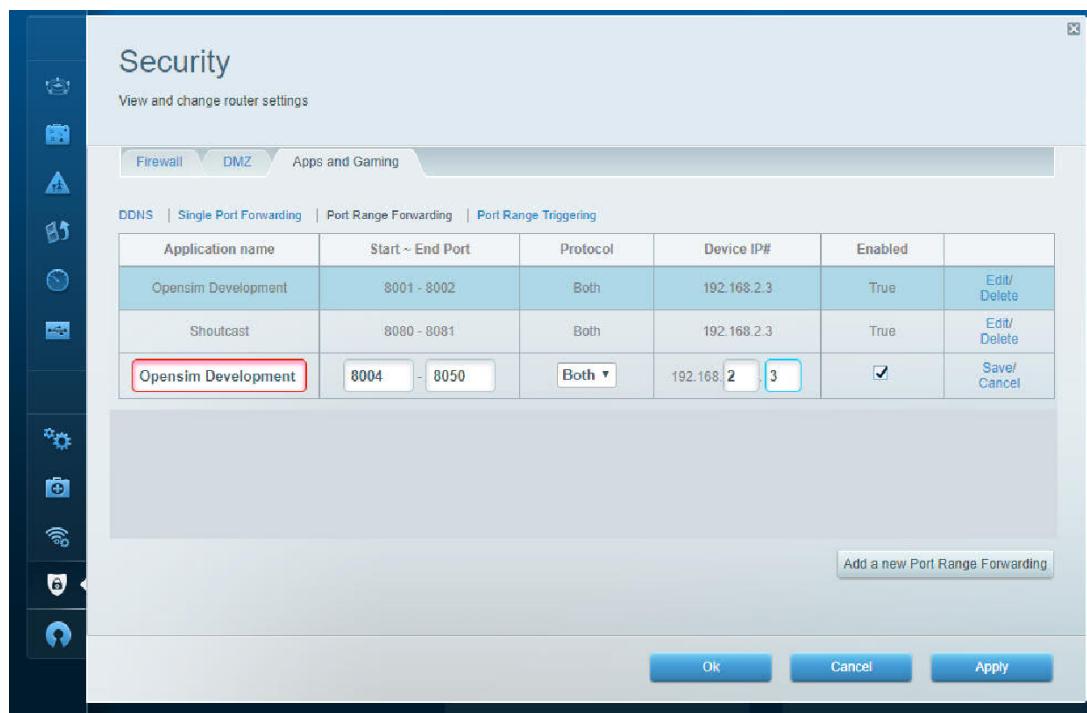
Wireless LAN adapter Wi-Fi 2:

  Media State . . . . . : Media disconnected
  Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 5:

  Media State . . . . . : Media disconnected
  Connection-specific DNS Suffix . :
```

In the above photo, my IP was 192.168.1.3. Yours is likely to be in the range 192.160.\*.\* , but it could also be a 10.0.\*.\* number. For my Linksys, it looks like this:



### IceCAST/Shoutcast

Ports 8080 and 8081 must be added when you are running the Icecast/Shoutcast server.

**Which ports?** You need to Port-Forward 8001, 8002, and 8004-8010 (or higher, I usually open up to 8050) to have room for expansion. You can also add 8080 and 8081 for Shoutcast/Icecast. Do not do 8003 for security

reasons. These can usually be done in ranges, like 8001-8002 and 8004-8010. The latter ones are for regions - you need one port per region, so this would let you have 7 regions. Add more if you want - nothing wrong with opening up to 8020 or 8030 or so. In the above photo, I have opened ports 8004 through 8005.

They need to be open for both TCP and UDP. Your router will have a button or a pulldown to select UDP, TCP, or both. If you do not have a Both or All option, you have to add them twice, once for UDP and once for TCP.

**How do I know this worked?** You can tell if it worked by starting Opensimulator, and then use a web browser to go to <http://www.canyouseeme.org>, and enter 8002 while Opensimulator is running. Then click the Test Button at CanYouSeeMe. If that works, the ports are fine. If this does not work, try disabling your PC firewall. If this works, you must add exclusions to the firewall and then turn the firewall back on.

See **Firewall Issues** for help with the PC firewall.

Keep working with the router, firewall, antivirus exclusions and IP address until this test passes.

#### LOOPBACK:

The second part that must work is loopback - either your router supports it, or not. You can immediately tell if your loopback works after running the above CanYouSeeMe.org tests. You use your web browser to navigate to [http://\(YOUR PUBLIC IP\):8002](http://(YOUR PUBLIC IP):8002). Mine was <http://24.173.0.66:8002>. Of course, your IP address will be different than shown here, so use whatever CanYouSeeMe.org shows you. If the system is working, you get a web page.

If not, you must add a loopback adapter. Go to [https://www.outworldz.com/Outworldz\\_installer/Loopback.htm](https://www.outworldz.com/Outworldz_installer/Loopback.htm) and follow the instructions.

Then go to Hypergrid/DNS Name page and enter your desired Hypergrid name

---

#### FIREWALL ISSUES:

Windows will prompt you to allow Opensim to open ports when it first runs. If you say no, you will not be able to log in. I also set all the ports to be open in firewalls when you first click start.

If you are using an Anti-virus with a firewall, such as Zone Alarm, AVG Internet Suite, or anything else, running Start.exe may trigger the 3rd party firewall popup warnings. Opensim.exe needs to be allowed internet access, and Start.exe must be allowed to make changes to the firewall. If not, it will not work, and you will have to take manual action to fix it.

This code is safe and is digitally signed by me, Fred Beckhusen of Outworldz.com, and is open source and available for inspection at <https://www.github.com/Outworldz>.

You may have to manually add firewall rules to allow incoming traffic on the ports.

1. On the client operating system, go to Start>Run and type firewall.cpl. The Windows Firewall window opens.
2. Click on the “Advanced Settings” link on the left pane. The Windows Firewall with Advanced security window opens.
3. Click on the “Inbound Rules” option.
4. On the left pane, click on “New rule”.
5. Under “Rule Type” select the option “Port” and click next.
6. Select “TCP” and “specific local ports” options.
7. Key in the port number, the port is 8001-8010 (or higher for more regions)
8. Click Next.
9. Select the option “Allow the connection”.
10. Click Next, do not change any option here and click Next again.
11. Specify a name for this rule.
12. Click Finish.
14. Repeat the above but using UDP from step 6

## MORE INFORMATION ABOUT OPENSIM PORTS

Here is more detail about ports and the way they interact with the outside world such as [www.canyouseeme.org](http://www.canyouseeme.org) and to my diagnostics tests.

Put simply, only port 8001 and 8002 can report back to those tools as to being open and can do so only when Opensim is running.

---

### PORT 8001:

8001 is a TCP/HTTP port that is open for help->Network diagnostics. It is unique to Dreamworld and not to Opensim. It is used for a "port forward" test, just like Canyouseeme.org does, and for a loopback test. It collects data on sim's going up and down to change the icons and collects Partner information if two people click the partner prim.

---

### PORT 8002:

Opensim has a web server that web browsers understand, using the same protocol (TCP/HTTP) that tools like [www.canyouseeme.org](http://www.canyouseeme.org) support. Put simply, Opensim is the only thing that listens to port 8002 and answers to http:// GET and POST requests on 8002. Port 8002 is like port 80, the default port for web pages. You can actually set Dreamworld's 8002 port to 80, and it will still work. You can then drop the need to type :8002 at the end of your hyperlink. <http://hg.Osgrid.org> does this. There would be no need to type the :80, as literally http:// means "add a :80 to the end of it".

8002 works with web based 'GET' probe tools. If you do switch it to 80, then you forfeit using an additional web server on your home machine as only one program can listen to a port.

If Opensim is not running and your ports are open, it is as if you tried to connect to [www.google.com](http://www.google.com)'s web server, but their web server is down. Nothing will happen, though your packets can get through the Google firewall because it is still open to traffic and is steering it to a dead server. You will get no answer. Similarly, if Opensim is not running, there is no web server to answer the request.

---

### PORT 8003:

This port is used by Opensim to listen to region traffic. Regions chat to the server database for login, presence, and other services use it to talk to the region so people can teleport from one region to another. In Dream World, regions must be on the same machine. In DreamGrid, just like OsGrid or any other remotely attachable grid, the regions can run on any machine anywhere in the world.

If you opened port 8003 to anyone on the web, you expose the internal database protocol to the web. Anyone with the right knowledge could attach a region to your sim. If you run a DreamGrid and host regions outside your LAN, it is recommended you use firewall rules to only allow access from known IP addresses running approved regions.

---

### PORT 8004 AND UPWARDS:

The region ports (8004-upward) run both TCP and UDP. UDP is used for the viewer. UDP cuts the load on the server dramatically as there is no need to automatically always ACK every packet. As one example, no one cares if an audio stream gets briefly interrupted as you cannot hear it anyway, and it is too late to use it if it comes later in a retry. It just gets discarded.

For multiple regions in a single DOS box, all regions listen for TCP traffic on the last port used in that DOS box. As one example, if one region is in a DOS box by itself, and it is the first region, then it listens on both TCP and UDP on 8004.

If you had two regions in one DOS box, and they start at 8004, then the regions listen to UDP on 8004 and 8005, and both regions listen to 8005 for TCP traffic. You can check that the region is reachable on the Hypergrid only by using port 8005. 8004 will not respond, as it only listens to 8004 on UDP.

As a result, you can test regions with tools like Canyouseeme.org or a web browser

#### LINKS:

Port Testing: <http://www.canyouseeme.org>

## PUBLICITY OVERRIDES

Publicity

Use Default <https://hyperica.com>

Do not publish this region

Publish Items marked for search

Key <https://opensimworld.com>

Publicity override can be used to publish or unpublish one region at a time to Hyperica.com.

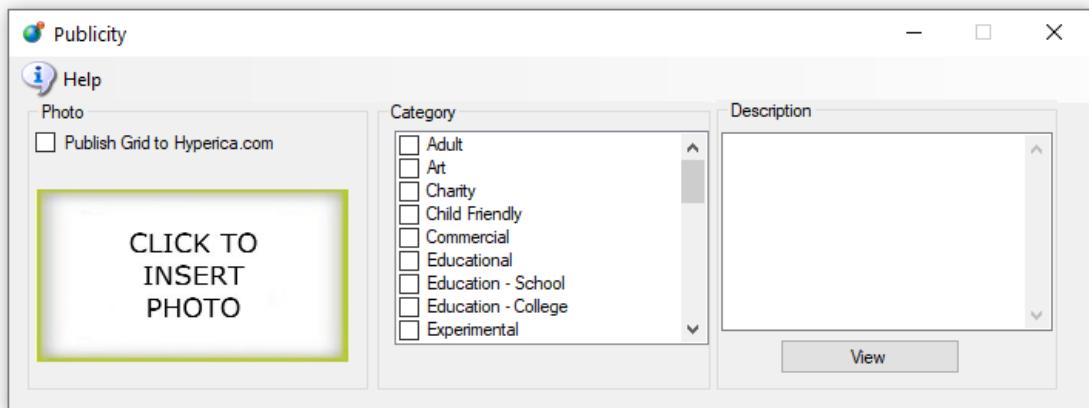
**Use Default** uses the Settings->Publicity.

**Do Not Publish** will not send data to Hyperica.

**Publish Items marked for search** will send your grid location, description and any items you have marked for Show In Search in world.

**OpensimWorld Key:** You can enter your OpensimWorld key here for this region. Then you do not need the scripted box. Also, Smart Boot Regions will be reported as online. This cannot be done by a script.

## PUBLICITY – PUBLISH YOUR GRID



Publish Grid sends shows your grid in the list at [Hyperica.com](https://Hyperica.com):

Categories are used to put you grid into the Destination Guide.

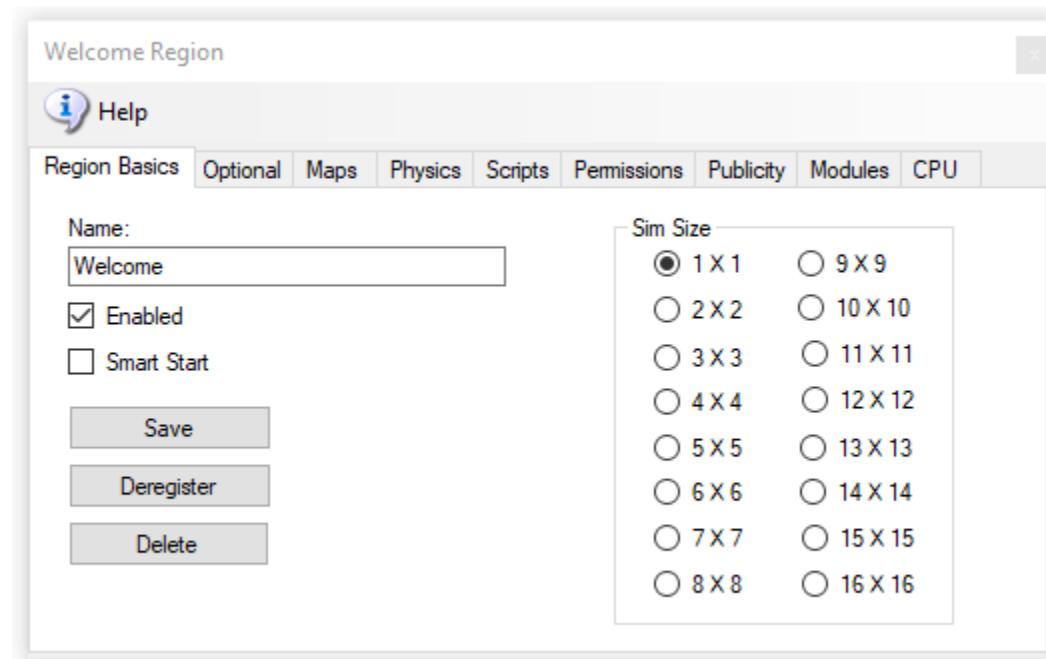
Click to Teleport. Click header to sort. Search button is at the bottom left.				
Hop	WWW	Name	Image	URL
		2BS.Outworldz.net		2BS.Outworldz.net:8002
		2Open		2open2.tk:8002
		3DLES EDUgrid		edugrid.3dles.com:8002

**Photos:** Click the box to load a PNG image and it will appear in your listing.



This panel has setting that are specific to this one region. As an example, if you want maps to made Best quality for just one region, you can set it here. It will override the global maps setting for this region.

## REGION BASICS



Give your region a name and click [Save].

Make sure it is Enabled. Smart Start is discussed in the Manual "Smart Start".

Sims can be any size from 1X1 (256 X 256 Meters) to 16X16, with 64 regions. Larger regions take more RAM and cut the frame rate down considerably.

If you click [Delete], the region INI file will still be there, but the file name will change to .bak from .ini and will be ignored. This should automatically Deregister the region.

[Deregister] will remove the region from the Robust reservation list but not remove the region. A region that shuts off is deregistered automatically. But a crashed region cannot deregister itself.

The result is that you cannot place another region with a different UUID in the same registered place. Deregistering the region lets you move another region to the original position.

Smart Start Regions remain registered when powered down so that they appear on the map and appear as available. If your region still will not start due to it overlapping, type this into the Robust console:

```
deregister region id <UUID Goes Here>
```

Regions are stored by DreamGrid in OutworldzFiles\opensim\bin\Regions in folders by each DOS box name. The DOS box folder has a Region folder in it that holds the Region.ini file. See [Rules for INI files](#) at the bottom of this Help file for more details.

## OPTIONS

This has optional items that are part of standard Opensim you may choose to change.

**Regions**

1011	Y	1003	Y
1024	Nonphysical Prim Size		
64	Physical Prim Max Size		
15000	Max Number of Prims in a Parcel		
100	Max number of Avatars + NPCs		
<input type="checkbox"/>	Clamp Prim Size		
<b>723b6f6c-2e47-4b94-a33d-20ba5d586fb4</b>		UUID	

The Options page has the (x, y) Global location of the region on the grid. You can set regions next to each other by changing the X and Y coordinates and restarting the region. The X and Y is the lower left point on the global map.

If you get messages saying that regions overlap, change the coordinates to some substantial number and retry the region boot.

**UUID:** You can only change the UUID of the grid if it is stopped. Never change the UUID unless you want to start with a blank region again. Altering the UUID will force the system to create a new, blank region the next time the grid starts, and you will be forced to move your region to another spot if it is not deregistered. This is a read-only field when the grid is running. You can only change this by stopping the grid.

**MaxAgents:** The maximum number of agents that can be in the region at any given time. The default is 100.

**MaxPrims:** The maximum number of prims that the region will be listed as supporting. However, this limit is not currently enforced by OpenSimulator. Due to LL protocol constraints, the maximum limit that can be shown is 45000.

**PhysicalPrimMax:** The maximum dimensions of a physical prim. This is a single number which applies to X, Y and Z co-ordinates. This will affect resizing of existing prims. Default is 10.

**NonphysicalPrimMax:** The maximum dimensions for a non-physical prim. This is a single number which applies to X, Y and Z co-ordinates. This will affect resizing of existing prims. Default is 256.

**ClampPrimSize:** If true then if a viewer attempts to create a prim which has any dimension larger than the NonphysicalPrimMax, then that dimension is reduced to NonphysicalPrimMax. Default is false.

## MAP OVERRIDES

**Maps**

- Use Default
- None
- Simple but fast
- Good (Warp3D)
- Better (Prims, Slow)
- Best (Prims + Mesh, Very Slow)

The Map Overrides change this one region's map making.

1. **None**: No maps will be made. This is a good setting as the regions will boot very quickly. Any existing maps are kept.
2. **Simple but Fast**: MapImageModule is used with just Land showing
3. **Good**: Uses Warp3D module with just Land showing
4. **Better**: Uses Warp3D module with Land, Prims, and land Textures showing
5. **Best**: Uses Warp3D module with Land, Prims, Mesh, Sculpts, and all Textures including prims showing.

## PHYSICS OVERRIDES

Physics

Use Default

Open Dynamic Engine

Ubit Open Dynamic Engine

Bullet physics

Bullet physics in separate thread

Hybrid

- ODE is a very old physics engine with many limitations. It does support Ninja Physics.
- UBODE is closer to Second Life in vehicle performance.
- Both BulletSim and UBODE support varregions.
- BulletSim provides the best performance and most functionality.
- Bullet in a separate thread prevents physics crashes from crashing the region. It is the default physics engine.
- ODE Ninja physics are documented in another manual

## SCRIPT OVERRIDES

Script Engine

Use Default

X Engine

Y Engine

Script Timer Rate (0.2)

Frame Rate (0.0909)

- **XEngine** is and older and very stable Opensimulator script engine.

- **YEngine** is a new engine that has better support for the `llSleep()` command. YEngine offers some features that improve performance and prevent timeouts. The problem with using `llSleep` function in Opensim scripts is that it may cause a script to freeze, requiring a reset. This is due to the way XEngine deals with running multiple scripts at once.
- The parse in Yengine is also like Second Life as it uses the same order when evaluating a series of expressions. XEngine parsed the order in the opposite direction from Second Life.
- **Script Timer Rate** is normally no faster than  $1/5^{\text{th}}$  of a second. It should rarely, if ever be faster than this. There are many less laggy ways to code a LSL system!
- **Frame rate** is how fast physics and other 'steps' are run. It is normally set to  $1/11^{\text{ths}}$  of a second, which is  $1/5^{\text{th}}$  of Second Life's rate. Some systems can benefit by running this slower or faster.

## PERMISSION OVERRIDES

### Permissions

- Use Default
- Allow Level-based gods
- Region Owner is God
- Estate Manager is god

**Allow Gods:** God mode is available to selected people if enabled. These levels can be set for individual users in the Web control panel.

- Level = 0 is a normal user
- Level = 50 (or a level you set) is used to indicate a privileged user (eg who can set up new Hypergrid linked regions)
- Level = 100 is a Wifi admin account user
- Level  $\geq$  200 can become a God

**Estate Owner is God:** If enabled, the region owner may go into God mode.

**Estate Manager is God:** If enabled, any region estate manager may go into God mode.

## PUBLICITY OVERRIDES

Publicity

Use Default <https://hyperica.com>

Do not publish this region

Publish Items marked for search

Key <https://opensimworld.com>

- Publicity override can be used to publish or unpublish one region at a time to Hyperica.com.
- **Use Default** uses the Settings->Publicity.
- **Do Not Publish** will not send data to Hyperica.
- **Publish Items marked for search** will send your grid location, description and any items you have marked for Show In Search in world.
- **OpensimWorld Key:** You can enter your OpensimWorld key here for this region. Then you do not need to scriptred box.

## MODULES

Modules

Bird Module

Enable the tide to come in and out?

Teleport Sign Enable

Disable All Gloebits

Disable Foreign Visitors

Disable All Residents

Skip Automatic OAR backup

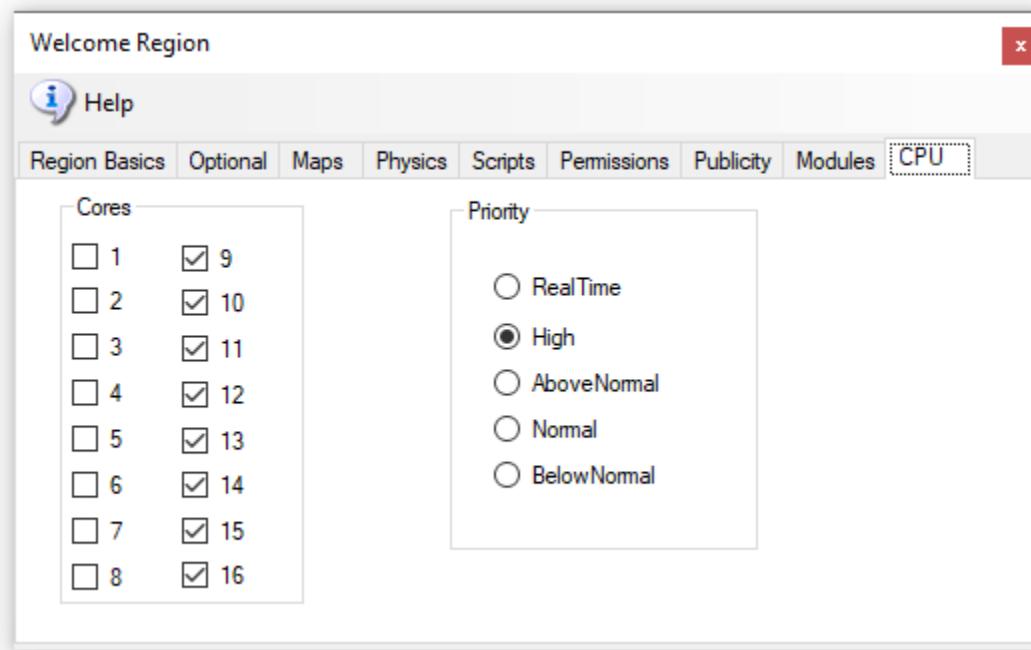
Announce Visitors

- **Bird module** makes flocks of birds possible. See the help manual on Birds. This must be enabled for birds to appear in a region.
- **Enable Tides** makes the water level rise and fall in this region. See the help manual on Tides. This must be enabled for tide to appear in a region.
- **Teleport Sign Enable** lets you use a standardized Outworldz Teleport Sign to direct visitors in your world. This sign is located in the Content-Inventory IAR Load and Save ->Local IAR menu. There are multiple variations of the sign.
- **Outworldz Teleport System V2.5.iar** is a standardized sign for all uses.

- **Outworldz Teleport System V3.9.iar** is for testing of the Smart Start system and is subject to change.
- **Disable all Gloebits** should stop the Gloebits system on this region.
- **Disable Foreign Visitors** will prevent hypergrid visitors from entering your region.
- **Disable Residents** will prevent all resident from entering your region. Only Estate managers or owners can get in.
- **Skip Automatic OAR backup** will prevent the automatic OAR system from backing up this region.
- **Announce visitors** will chat any arrivals or departures.

## CPU

The CPU tab lets you choose one or more cores for the region to run on. You can also set priority for the region.



You can choose to set the process priority to Normal, High, Above Normal, Below Normal, or RealTime. Based on the time elapsed or other boosts, the base priority level can change when a process needs to be put ahead of others for access to the processor.

The processor affinity is the set of processors it has a relationship to. In other words, those cores it can be scheduled to run on.

A process thread can migrate from processor to processor, with each migration reloading the processor cache. Specifying a processor for a thread can improve performance under heavy system loads by reducing the number of times the processor cache is reloaded. The system schedules threads on their preferred processors whenever possible.

### BEST USE OF “REAL TIME,” VS HIGH, OR USING “LOW”

A scenery/low script region has no need for any optimization. It is already low lag, and load load. You need to think about these system-wide, and what the regions are doing under load.

You could just dedicate all such regions to Core 1 and set priority normal. If one person was in one of those regions, it would seem 'normal' to them even if all other cores were hard at work. Opensim loves cores, so this may not be ideal, but it does protect that region from the other CPU cores.

**Limit:** Scripts or physics may need to be limited. A limit may be needed on large Satyr Farms. They make a great number of changes to prims which can swamp a server with MySQL writes. I can show you a half dozen regions on two different grids that write to SSD's as fast as possible - 7 to 15 MB a second! I upgraded one to more cores and it just wrote even faster. So these sims really need to be much lower in priority for CPU. It's horrible - a Contabo machine costing \$50 a month is barely capable of running one region because of Satyr Farm!

**Unlimited:** The opposite example would be a racing simulation, where you want more responsiveness. Set that region to a higher priority. Look at [@Cuteulala Artis](#) wonderful organ simulation in your free OARs list near

the bottom. This wonderful creation requires a faster script timer in region settings to play properly. It could potentially benefit from a higher priority above 'Normal' on a heavily loaded server.

**Dedicated Cores** is something else. To increase performance even more, you can dedicate one or more cores or more to a DOS box. Default is all cores are served to all DOS boxes. A dedicated core is more efficient as the system does not share the cores with other tasks and the hardware scheduler can make smarter decisions about this one DOS box.

Dedicated Cores are a marketable product. SL sells a dedicated core with one 256 X 256 region in it for \$229 a month. We are not SL, obviously , but if someone wanted to sell a dedicated core for more than the usual fee, they can now.

Src:<https://secondlife.com/land/private-pricing>. It has a higher value than sharing a machine with all others.

Assume you are running a high CPU load on an 8-CPU Intel machine with hyperthreads so 16 cores are available. (AMD is not hyperthreadable). Assume also that the GUI in DreamGrid is lagging, or Windows is not being very responsive. You can set all your regions to use, lets say 14, of those 16 cores so two cores would be left for Windows and DreamGrid GUI, Robust, and Mysql, and other tasks without being bothered by Satyr Farm. ( I currently do not have code to dedicate a core to Robust and Mysql, but I will add that soon)

#### RULES FOR INI FILES

DreamGrid has several simple rules for \*.INI files that differ slightly from stock Opensim.

- No Duplicates: Do not leave a Region.ini in one folder and the same Region.ini in another. All files such as Region.bak are ignored.
- The only thing you need to put in the **SOME DOS BOX NAME\Region\** is one or more Region.INI files.
- All other files, such as Opensim.ini are automatically re-created when you start the region.
- The INI file name must match the [Region Name] inside it. This example region [Welcome] must be saved as "Welcome.ini".
- Only one [Region Name] is allowed in an INI file.
- Use multiples of 256 such as 256X256, 512X512, and so on.
- Each region size can be anything from 256 X 256 to 1024 X 1024, or higher. Huge region sizes such as 4096 X 4096 can be used for flying or car racing. If you go over 8192 X 8192, you can expect it to be slow and laggy as the land size gets exceptionally large as it grows exponentially.
- You can replace 4 single regions with a single 2X2 region and there will be no lag when crossing the (nonexistent) border. Vehicles can move smoothly anywhere. Also, NPCs can move about freely. Look in any region settings panel and you will see a "size" box. Check the 2X2 box, save it, and restart the region. It will grow North and East and will be 4 times larger, overall. You will also need to move it in X and/or Y or delete the other regions as regions cannot overlap. You can shrink them, too, but objects that fall off the right and top edge will be lost.

Example of how regions are organized in the file system:

- Opensim\bin\Regions\\*\*SOME DOS BOX NAME\*\*\Region\Fred.ini
- Opensim\bin\Regions\\*\*SOME DOS BOX NAME\*\*\Region\Rak.ini

These two regions **Fred** and **Rak** will be in a single Dos box named "**SOME DOS BOX NAME**".

If you rename the folder "**SOME DOS BOX NAME**" to "**Internet**", they will be in a DOS box named "**Internet**". If you create a new folder named "**HEY**", like this:

Opensim\bin\Regions\\*\*HEY\*\*\

And then MOVE Region\Rak.ini into it:

Opensim\bin\Regions\\*\*HEY\*\*\Region\Rak.ini

You will end up with a DOS box named "**Hey**" with the Region named "**Rak**" in it.  
The other Dos box will have just Fred in it:

Opensimulator\bin\Regions\\*\*SOME DOS BOX NAME\*\*\Region\Fred.ini

## REGION LIST

Open the Region Panel with Ctrl-R or go to Setting-Region.

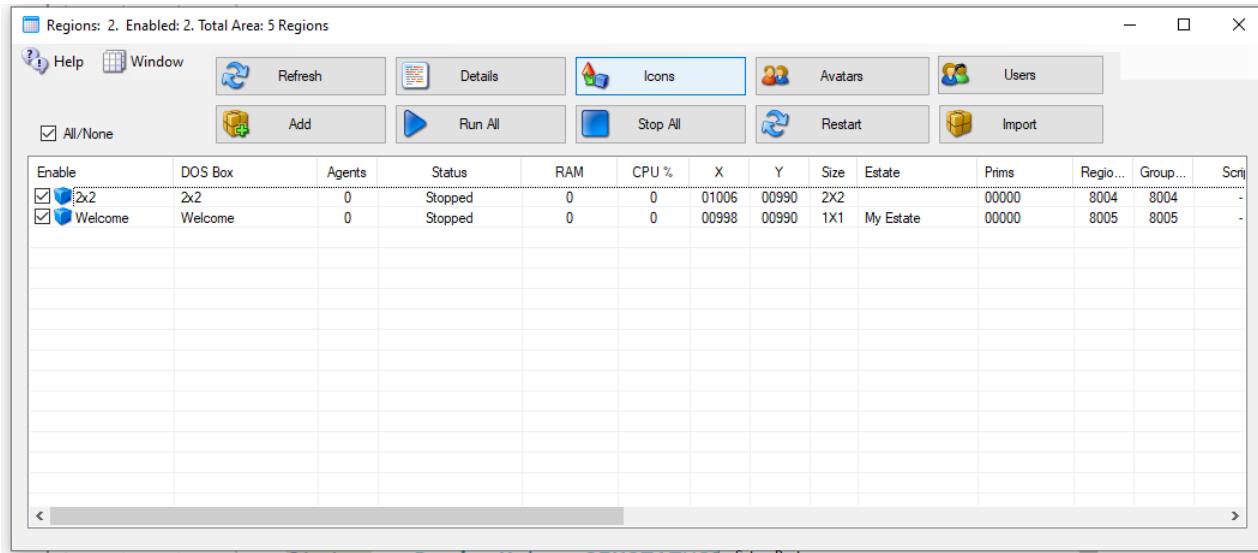
There may be many Region.INI files in your system. These show up in this panel. The default is an island called "Welcome".

REFRESH BUTTON

Click Refresh to rescan the system status and update this panel.

DETAILS BUTTON

This screen shows the regions plus all the details on each region.



The Detail view can be sorted by Name, Group, Agents or Status by clicking the column name.

#### ICONS BUTTON

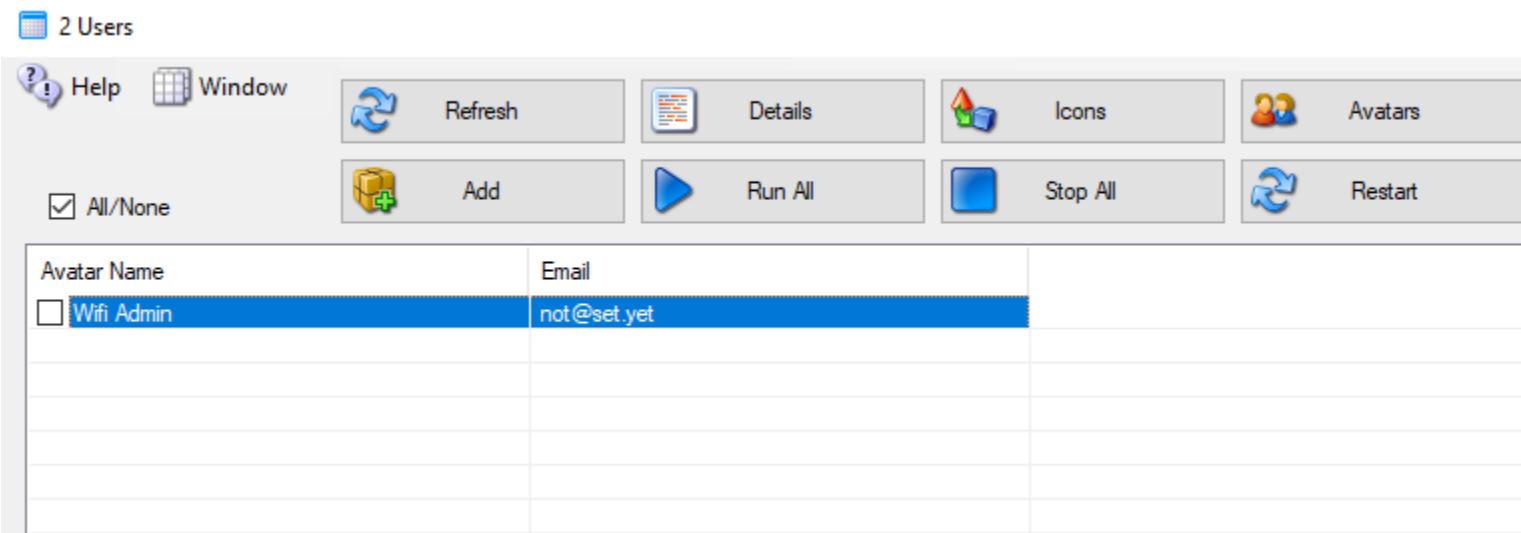
This screen shows the Icon on each region. Clicking a Region opens the Region Editor.

#### AVATARS BUTTON

This screen shows the Hypergrid and Local Visitors to your regions. If you have a viewer on the server, you can click the person and it will generate a Teleport link to that person.

#### USERS BUTTON

This screen has a list of all registered users on your system.



You can Checkmark each user to send an email to them. The Email button appears to top right

#### ADD

Click the Add button to make a new region. You only need to give it a name and save it.

## RUN ALL BUTTON

Runs all Checked regions.

## STOP ALL BUTTON

Stops all regions.

## RESTART BUTTON

Restarts all checked regions.

## IMPORT BUTTON

This button lets you find region.ini files from other system, such as the standalone Dream World or backups, and import the file into DreamGrid in a new or existing DOS box.

---

## FILE FOLDER ARRANGEMENT

DreamGrid uses a slightly different folder setting than stock Opensim. You cannot just copy them over in a file explorer unless you make a special pattern of folders, with an extra set of folders inside it.

The format is:

Opensim\bin\Regions\DOS Box Name\Region\RegionName.ini

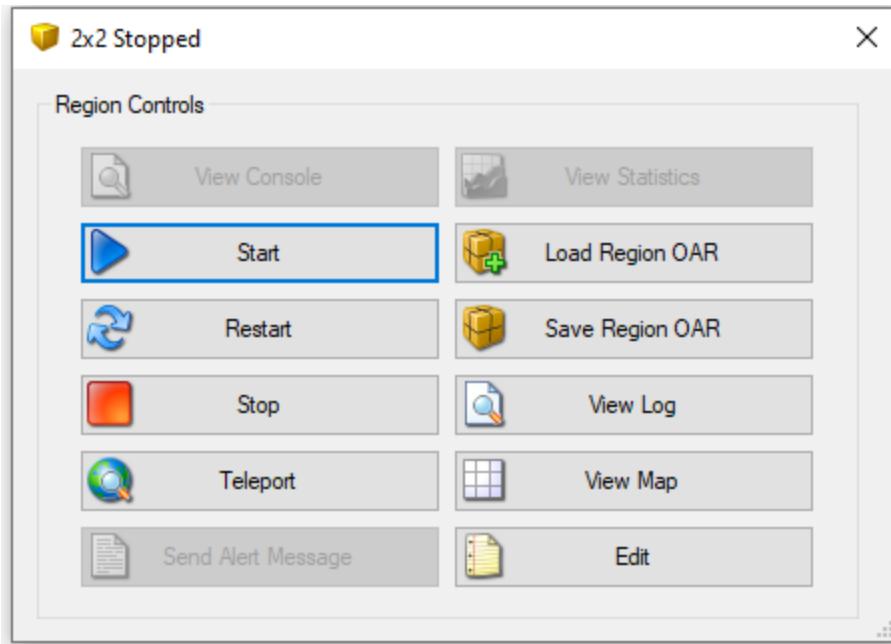
DreamGrid has several simple rules for \*.INI files that differ slightly from stock Opensim.

- The INI file name must match the [Region Name] inside it. This example region [Region Name] must be saved as "Region Name.ini".
- Only one [Region Name] is allowed in an INI file.
- All contents of a Region file are made by Dreamgrid and will be overwritten. See the Region Control Panel to change the settings.

---

## CLICKING A REGION

A new panel appears if you click a region:



#### VIEW CONSOLE BUTTON

Shows the DOS Box console window.

#### START BUTTON

Starts this one region.

#### RESTART BUTTON

Restarts this one region.

#### STOP BUTTON

Stop this one region.

#### TELEPORT BUTTON

Generates a Teleport to the region in the viewer.

#### SEND ALERT MESSAGE BUTTON

Send a region wide message to all users in the region

#### LOAD REGION OAR BUTTON

Loads an OAR into the region

#### SAVE REGION OAR BUTTON

Saves an Oar from the region

#### VIEW LOG BUTTON

Views the Opensim.log file

**VIEW MAP BUTTON**

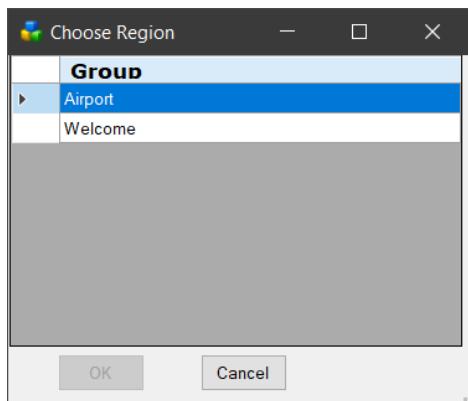
Shows the region Map.

**EDIT BUTTON**

Edits the region.

## REGION STATS

The region stats are a web-based data collector. First, choose a region:



The first screen shows general statistics:

The screenshot shows a web browser window with the URL `10.6.1.14:8018/SStats/`. The page displays general statistics and detailed logs for the 'Welcome' region.

**General Statistics:**

# Users Total	# Sessions Total	Avg Client FPS	Avg Client Mem Use	Avg Sim FPS	Avg Ping	KB Out Total	KB In Total
4	20	143.1638	377206.2	62.49995	59.18057	22825.65	55361.76

**Logs:**

1. Welcome **Welcome**

Dilatn	SimFPS	PhysFPS	AgntUp	RootAg	ChldAg	Prims	ATvPrm	AtvScr	ScrLPS
0	0	0	0	0	0	0	0	0	0
FrmMS	AgtMS	PhysMS	OthrMS	OutPPS	InPPS	NoAckKB	PndDWN	PndUP	
0	0	0	0	0	0	0	0	0	

**ActiveLog:**

```
15:22:34 - [SCENE] : Loading land objects from storage
15:22:35 - [SCENE] : Loading objects from datastore
15:22:35 - [SCENE] : Loaded 2 objects from the datastore
15:22:35 - [SCENE] : Initializing script instances in Welcome
15:22:35 - [SCENE] : Initialized 1 script instances in Welcome
15:22:35 - [RADMIN] : Default avatars not loaded
15:22:35 - [OPENSIM] Enabling remote managed stats fetch. URL = /ManagedStats/
15:22:50 - [XEngine] : Performing initial script startup on Welcome
15:22:50 - [XEngine] : Completed starting 1 scripts on Welcome
```

The client screen shows the types of viewers that have visited

A screenshot of a web browser window displaying a report titled "SStats/clients.report". The browser's address bar shows the URL "10.6.1.14:8018/SStats/clients.report". The page content is a table with three columns: "ClientVersion", "Count%", and "SimFPS". The first two rows show the count and percentage for two specific client versions. The subsequent rows list various regions and their corresponding client versions, counts, and simulation frame rates (SimFPS). The table has a header row with bolded column names.

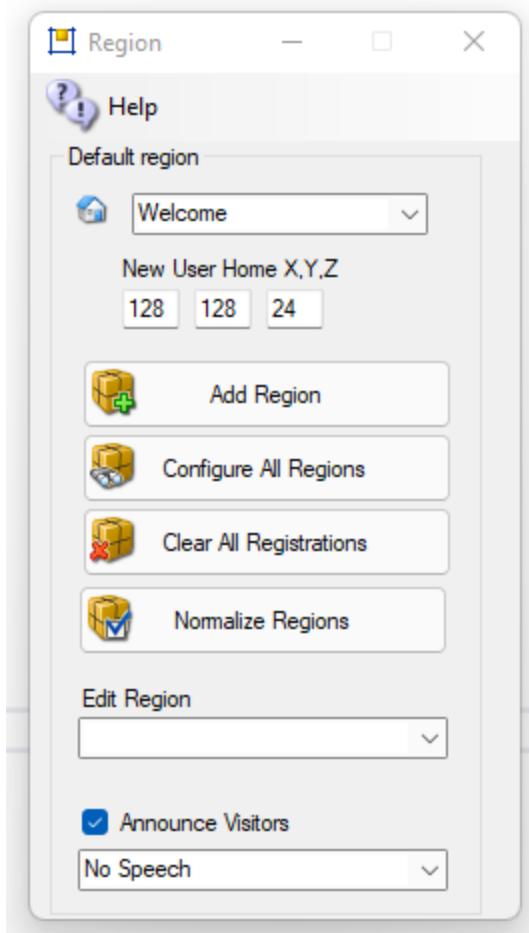
ClientVersion	Count%	SimFPS
<a href="#">Firestorm-Releasex64 5.0.11.53634</a>	15/75%	56.38665
<a href="#">Firestorm-Releasex64 6.0.2.56680</a>	5/25%	80.83985
Region	ClientVersion	Count%
9e235325-235c-481a-8798-3b5256637732	Firestorm-Releasex64 5.0.11.53634	2/100% 81.25302
a1fe4303-93f9-4edd-a581-ea639d568d61	Firestorm-Releasex64 5.0.11.53634	1/100% 104.8917
ab8d7880-278e-22e4-8c33-0803210c9b44	Firestorm-Releasex64 5.0.11.53634	1/100% 73.53123
ae823f8a-edcc-4351-b797-0e1072b35555	Firestorm-Releasex64 5.0.11.53634	4/100% 62.15864
Welcome	Firestorm-Releasex64 5.0.11.53634	6/54.54546% 34.21323
Welcome	Firestorm-Releasex64 6.0.2.56680	5/45.45455% 80.83985
caec64ef-4cac-44a2-9987-2cc7db7857d8	Firestorm-Releasex64 5.0.11.53634	1/100% 50.95684

The Sessions screen shows the visitor list

FirstName	LastName	SessionEnd	SessionLength	Client
Ferd	Frederix	9/23/2019 - 4:04 PM	2 Minutes	Firestorm-Releasex64 6.0.2.56680
Test	User	7/2/2019 - 4:25 PM	2 Minutes	Firestorm-Releasex64 5.0.11.53634
		7/2/2019 - 5:27 PM		Firestorm-Releasex64 5.0.11.53634
		7/2/2019 - 9:09 PM	2 Minutes	Firestorm-Releasex64 5.0.11.53634
Test	User	7/16/2019 - 3:02 PM	14 Minutes	Firestorm-Releasex64 5.0.11.53634
		7/16/2019 - 3:08 PM		Firestorm-Releasex64 5.0.11.53634
		7/16/2019 - 3:21 PM	10 Minutes	Firestorm-Releasex64 5.0.11.53634
		7/25/2019 - 7:16 PM	2 Minutes	Firestorm-Releasex64 5.0.11.53634
		7/25/2019 - 10:13 PM	23 Minutes	Firestorm-Releasex64 5.0.11.53634
		8/20/2019 - 4:17 PM	2 Minutes	Firestorm-Releasex64 5.0.11.53634
		8/20/2019 - 6:50 PM		Firestorm-Releasex64 5.0.11.53634
		8/20/2019 - 7:18 PM	2 Minutes	Firestorm-Releasex64 5.0.11.53634
		8/20/2019 - 7:48 PM		Firestorm-Releasex64 5.0.11.53634
		8/20/2019 - 8:37 PM		Firestorm-Releasex64 5.0.11.53634
		8/27/2019 - 4:42 PM	4 Minutes	Firestorm-Releasex64 5.0.11.53634
Test	User	9/16/2019 - 2:47 PM	14 Minutes	Firestorm-Releasex64 5.0.11.53634
		9/16/2019 - 4:21 PM	2 Minutes	Firestorm-Releasex64 6.0.2.56680
		9/16/2019 - 5:40 PM		Firestorm-Releasex64 6.0.2.56680
		9/23/2019 - 4:00 PM		Firestorm-Releasex64 6.0.2.56680
		9/23/2019 - 4:06 PM		Firestorm-Releasex64 6.0.2.56680

## REGIONS

**Region Settings** holds various defaults for all regions.



**Default region for visitors:** This is your “Welcome” region. Hypergrid visitors and people who log in for the first time get sent to this region. The region must be online.



**New User Home X, Y, Z:** Users that create accounts on the web page will land at this spot on your Welcome region. Their home is set here. Default: 128,128,24

**Add a Region:** will bring up a dialog form for adding a new region.



**Configure All Regions:** will open all regions for editing.



**Clear All Registrations:** You may get an error when you add a region where another region once existed or overlapped. This operation will remove all registrations of all regions from the database. All regions, including Smart Boot regions re-register when the grid is booted.



لماذا هذا مفید؟ crashed region will leave behind this registration, and you cannot place another region in the same spot. Pressing this will deregister all regions so all regions can be moved. This button deletes all regions from the “present and accounted for”, region table in Robust.

This requires that the grid not be running. See below for more details in [Troubleshooting](#).

**Normalize Regions:** The Javascript web map requires that the lower left corner starts at 1000,1000. This will move all regions so that the chosen region is at 1000,1000. All regions maintain their relative positions.

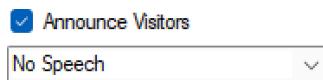


**Edit Region:** will bring up a dialog form to edit the selected region.



**Announce Visitors:** This is a global enable. Visitors that arrive in a region are chatted using Opensimulator's Concierge module. The region must also have an override for “Announce Visitors” in the Modules section of the Region settings.

**Speech Selection box:** This setting uses a Microsoft or a 3<sup>rd</sup> party Speech Synthesizer to announce when visitors arrive or leave. You can choose Zira or David voices, or add a 3<sup>rd</sup> party voice by purchasing and installing a SAPI compatible voice.



This speech feature will not work on Contabo/ Windows Servers without there actually being a sound card. A virtual sound card from one of these source may fix that.

<https://github.com/duncanthrax/scream> Scream - Virtual network sound card for Microsoft Windows

<http://virtualsoundcarddriver.com/> Virtual Sound Card Driver

<https://www.e2esoft.com/vsc/> e2eSoft VSC is a Sound Card Emulator

<https://www.vb-audio.com/Cable/> VB-CABLE is a virtual audio device working as virtual audio cable. It creates Virtual Sound Card

<https://vac.muzychenko.net/en/> Virtual Audio Cable (VAC) is an audio bridge between applications that transmits sounds, but it creates Virtual Sound Card

## TROUBLESHOOTING:

**Region Error:** if you add a region where another already exists, you may get this error.

```
2021-03-27 09:53:51,132 ERROR [GRID CONNECTOR]: Registration failed: Region overlaps another region when
contacting http://192.168.2.139:8003/grid
2021-03-27 09:53:51,137 ERROR [STARTUP]: Registration of region with grid failed, aborting startup due to
Region overlaps another region at OpenSim.Region.Framework.Scenes.Scene.RegisterRegionWithGrid() in
C:\Opensim\Outworldz_Dreamgrid\OutworldzFiles\Opensim\OpenSim\Region\Framework\Scenes\Scene.cs:line 2384
at OpenSim.OpenSimBase.CreateRegion(RegionInfo regionInfo, Boolean portadd_flag, Boolean do_post_init,
IScene& msscene) in
c:\Opensim\Outworldz_Dreamgrid\OutworldzFiles\Opensim\OpenSim\Region\Application\OpenSimBase.cs:lin
e 499
```

Robust says:

```
09:59:23 - [GRID SERVICE]: Register region conflict in scope 00000000-0000-0000-0000-000000000000. Region overlaps another region
```

One solution is to deregister it by hand. Go to robust and type this:

```
show regions < enter>
```

you get a list of all regions.

```
ROBUST# show regions
  Name          ID           Position    Size   Flags
Region 1016, 1007 0e871ad3-41ec-4eb5-8aad-96d9b5561803 1016,1007 256x256 RegionOnline
Region 1017, 1010 0f75a6ba-bbc0-4489-846d-a3aaa286c3ae 1017,1010 256x256 RegionOnline
Region 1017, 1008 1b47af46-9364-4cde-909c-a3173d98291f 1017,1008 256x256 RegionOnline
Region 1015, 1007 2302b841-11d3-4c2c-9ebb-0fce4c26bea 1015,1007 256x256 RegionOnline
Region 1013, 1009 4e69b298-c084-466f-b450-f34fbffa2238 1013,1009 256x256 RegionOnline
Region 1015, 1009 74f9d745-fa42-450b-96e5-0770eae37928 1015,1009 256x256 RegionOnline
Region 1016, 1009 a357ccd6-43d6-45ff-8563-35f09345908e 1016,1009 256x256 RegionOnline
Region 1017, 1007 c8775e97-a1d-4164-8db8-ec205e46a148 1017,1007 256x256 RegionOnline
Welcome         c91ceea4-77f5-40f6-afad-36f822097a4d 1016,1008 256x256 DefaultRegion,
RegionOnline, DefaultHGRegion
Region 1015, 1008 dce9b253-789f-497a-b040-7df958262c69 1015,1008 256x256 RegionOnline
Region 1017, 1009 e819b0f7-86d7-4391-9064-67f6cb8708cd 1017,1009 256x256 RegionOnline
Region 1016, 1017 eab4f2bb-c92f-42fe-be92-30b29ba5a61b 1016,1017 256x256 RegionOnline
```

Find the region at the same coordinates as the one you are trying to boot. The one that is conflicting on my test server is this one at 10156,1009

```
Region 1016, 1009      a357ccd6-43d6-45ff-8563-35f09345908e 1016,1009      256x256      RegionOnline
```

This UUID is different than the one there previously. So it will not let the new region steal it.

Copy the UUID from, above: **a357ccd6-43d6-45ff-8563-35f09345908e**

Type in this:

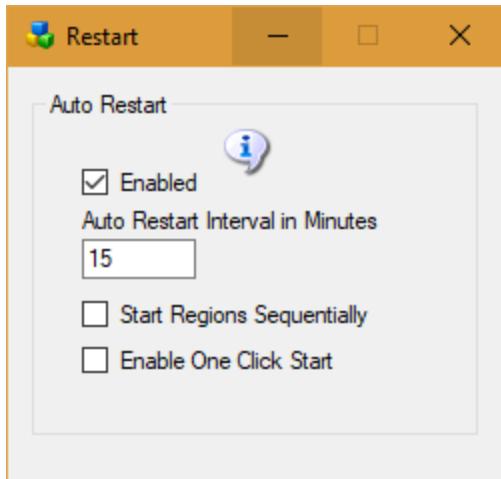
```
deregister region id <PASTE UUID HERE>

ROBUST# deregister region id a357ccd6-43d6-45ff-8563-35f09345908e
Deregistered Region 1016, 1009 a357ccd6-43d6-45ff-8563-35f09345908e
ROBUST#
```

## AUTO RESTART AND STARTUP SETTINGS

Opensim uses up increased RAM as people arrive and leave. Periodic restarting of regions is necessary to clear memory. You can set up a restart timer here.

Dreamgrid will not restart a region if avatars are present. It will restart the region only after all avatars leave.



**Enable:** If enabled, the auto restart interval will be set to 1440 minutes, which is one day. If disabled, the regions will try to run forever.

**Auto restart Interval:** The number of minutes a region runs before it restarts.

0 = Off

720 is 1/2 day. 1440 is one day. 2880 is 2 days.

If Autobackup is enabled, this interval will be extended beyond the Autobackup Interval by 30 minutes to allow Autobackup to complete.

**Start Regions Sequentially:** Unchecked= start a new region every few seconds. This can overwhelm the database, memory and/or CPU on some systems. Checking this box will start each region sequentially it will wait for it to boot completely before starting the next. It will extend the waiting period up to 3 minutes. per region.

**Enable One Click Start:** If set, running Start.exe will automatically start Opensim without needing to click the second [Start] button.

## RUNNING THE GRID MANUALLY

After the first run of DreamGrid, you can run Opensim, MySQL, and Robust without it.

The batch file **Go.bat** starts a command prompt with an instance of Opensim in it (an instance is a set of sims). The batch file launches Opensim with the settings it needs for the INI files and the Log file.

Step 1: Navigate to Outworldzfiles\ mysql\bin and run “**StartManually.bat**”. This will boot Mysql. StopMysql.bat is there which wil gracefully stop MySQL. You can also run (as an Administrator) InstallAsAService.bat so you do not need to start/stop MySQL. It will install itself in Services.msc and start when Windows runs.

**StartManually.bat**

Do not close the MySQL box. Use this batch file:

```
StopManually.bat
```

Step 2. Run “Outworldzfiles\Opensim\RunRobust.bat” which starts Robust

```
RunRobust.bat
```

Step 3.Run Outworldzfiles\Opensim\go.bat, which starts any region by Instance (Dos Box) Name.

```
go Welcome
```

This is the batch file "StartManually.bat" which does multiple items in sequence:

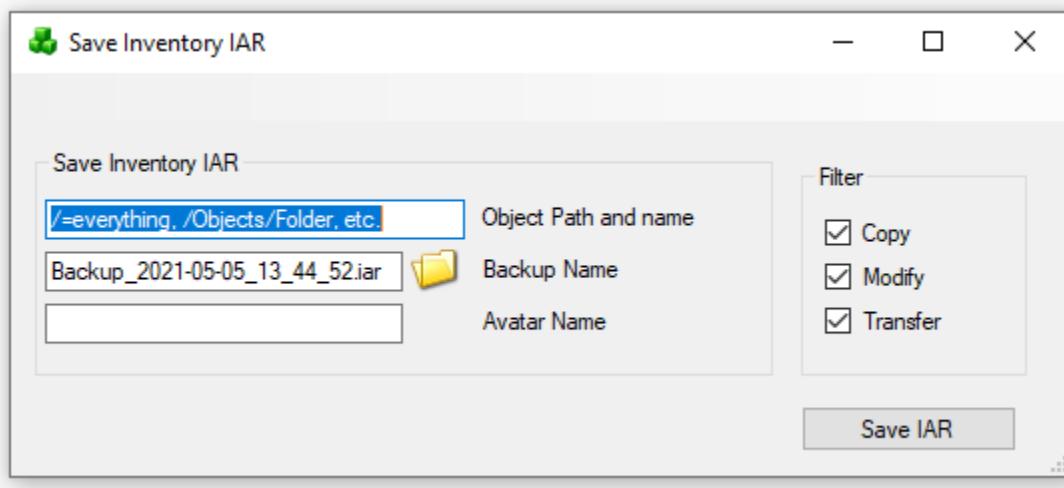
@remarkable batch file to start DreamGrid manually.

```
cd mysql\bin
start startmanually.مضرب
cd opensim
call runrobust.مضرب
call go Welcome
call go AnotherRegion
add more region names here
```

## SAVE IAR

OpenSimulator Inventory Archives (IARs) are a means by which inventory folders and items can be saved offline to a single file (an IAR). This file can then be loaded into a different OpenSimulator installation.

Like Opensim Archives, IARs save all the necessary asset data to fully restore the items including textures, sounds, scripts, and objects contained in the inventory of other objects.



The command to save an IAR on the region console is

```
save iar [-h|--home=<url>] [-v|--verbose] [--noassets] [--perm=<permissions>]
<user-name> <path> [<filename>]
```

where <user-name> is the name of the user to save inventory.

<path> is the path to an inventory item or folder. If the path is for a folder, that folder and all its contents (both descendant folders and items) are saved. If the path is for an item, then only that item is saved.

Components of the path are separated by a forward slash (""). If you need to specify a path with spaces, you can surround the whole thing with double quotation marks (eg "Folder A/Folder B")

You can specify that the contents of a folder should be saved rather than the folder itself using the \* wildcard. For instance, "a/b/\*" will save the contents of folder b but not folder b itself.

If a name or folder contains a forward slash ("") then it can be escaped with the backslash (ie "\") to stop it being seen as a path separator. Back slashes themselves need to be escaped with another backslash (ie "\\").

One further issue here is that it is not possible to distinguish between identically named folders or items on the path - the workaround is to rename your items/folders if you need to specify them in the path :)

filename> is an optional filename for the IAR. If none is supplied, then the filename user-inventory.iar is used in the current directory. I recommend that IARs have the .iar extension.

## SWITCHES

If the --noassets option is specified, then the archive will be saved without assets. This can be handy if you are backing up the asset database separately and do not want the expense of including all the assets in each archive.

--home=<url> is the URL of this world's profile service. It is not required that the profile service is operational; the information will be saved, and it will be displayed wherever the archive will be loaded. NOTE: the older --profile option (the previous name of this switch) produced IARs that are not compatible with OpenSimulator 0.7.0.2 and earlier; do not use this option if you want to produce a compatible IAR.

--verbose prints out verbose saving messages

When the C/MX switches are set, the --perm option is specified, and items with insufficient permissions will not be saved to the IAR. This can be useful for grids that allow their customers to export their inventory to IARs, because it ensures that exporting to IAR cannot be used to bypass content permissions.

<permissions> specifies which permissions are required. It is a string that contains one or more of these characters:

"C" = Copy  
"T" = Transfer  
"M" = Modify

## Examples

Here is an example. Suppose you have an inventory structure like this

My Inventory

```
|  
+-- FolderA  
|  
|   +-- FolderB  
||  
|   |   +-- ItemX  
|  
+-- ItemY
```

If you type:

```
save iar John Doe FolderA PASSWORD my-items.iar
```

then FolderA and everything in FolderA (FolderB, ItemX and ItemY) will be saved into an IAR called my-items.iar.  
On the other hand, if you type

```
save iar John Doe FolderA/FolderB/ItemX PASSWORD my-items.iar
```

then only ItemX will be saved.

If there is a space in the path to the item, for example if John Doe's folder was named "Folder A" instead of "FolderA", then quotes around the path are necessary on the command line:

```
save iar John Doe "Folder A/FolderB/ItemX" PASSWORD my-items.iar
```

#### SAVING AN ENTIRE USER'S INVENTORY

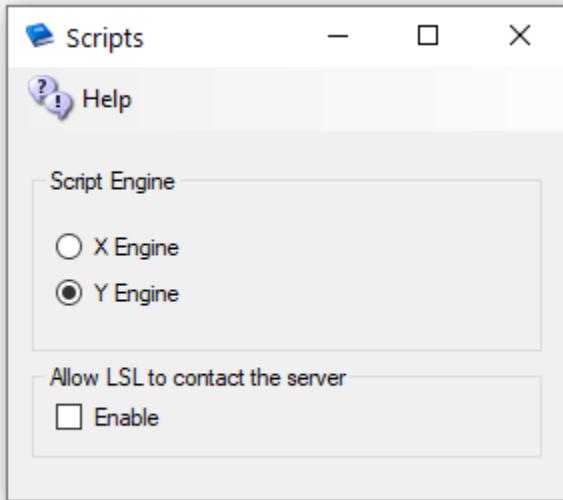
With save iar you can save your entire inventory as well as the contents of particular folders or individual items.

For instance, typing

```
save iar John Doe / password
```

#### SCRIPT SETTINGS

Default Engine for scripts is XEngine.



YEngine is a new engine that has better support for the `llSleep()` command. YEngine offers some features that improve performance and prevent timeouts.

The problem with using `llSleep` function in Opensim scripts is that it may cause a script to freeze, requiring a reset. This is due to the way XEngine deals with running multiple scripts at once.

The parse in Yengine is also like Second Life as it uses the same order when evaluating a series of expressions. XEngine parsed the order in the opposite direction from Second Life.

#### ALLOW LSL TO CONTACT THE SERVER:

By default, OpenSimulator does not allow scripts to make HTTP calls to addresses on the simulator's LAN. This stops LSL from scanning your ports inside your firewall. If you need to allow scripts to make some LAN calls, enable this checkbox. We recommend that you do not enable this unless you are very sure about what you are doing. When disabled, it will allow access to no ports on the server. You can see more in Opensim.proto - search for OutboundDisallowForUserScripts.

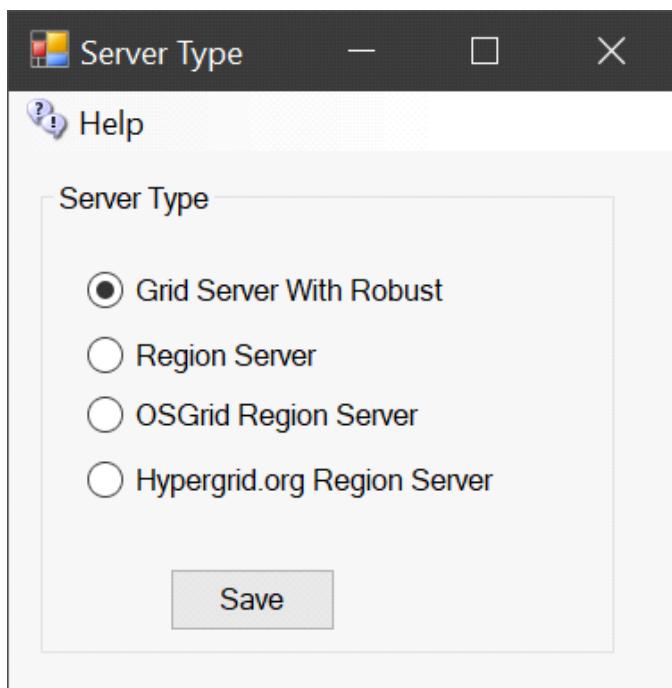
Default: Unchecked

#### ROBUST AND SERVER TYPE

This menu item "Server Type" lets you choose from either a Grid Server with Robust, or from different Region Server choices to connect to another grid.

**You MUST first run as a regular grid, then switch to a region server. DreamGrid needs certain tables in robust, even though regions do not use them.**

**After it boots, stop the grid, drop the Welcome region it created, and make a new region at a free spot coordinate on the OsGrid map. Then you can change to a region server.**



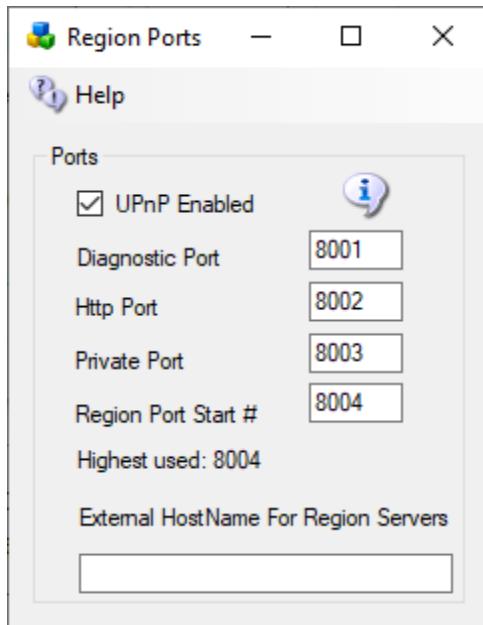
## GRID SERVER WITH ROBUST

A grid server is modeled after the World Wide Web, with independent domains. Content is spread across small, independent and on large domains, independently, yet interlinks. Robust is the service that lets Hypergrid users enter each world. A Grid Server can also support regions locally. A grid server can host as many Region servers as its memory and CPU capacity allows.

## REGION SERVER

A Region server uses a separate DreamGrid Robust Grid Server for all assets and login services. Only regions and their content are stored locally. The grid server may be on the same LAN, or on another WAN. A Region Server always uses the same Domain Name and port as the Hosting server.

In cases where the Grid server is on a different WAN IP address, you must also enter the Region Servers IP address or domain name in the Region Ports setting:



UPNP may be checked, if so, there is no need to port forward. It will be unchecked if it does not work. If you have more than a few regions, it is faster to port forward all ports and leave UPNP off.

The Diagnostic port default is 8001. This is

The HTTP port is set to 8002, or whatever your Host server is set to. 8002 is the default.

Private Port MUST be the same as the Robust Private Port. Default is 8003. This port is blocked at the Robust server. You must go to the host server and port forward that Port 8003 and make sure that the Windows firewall only allow the region server in by its IP Address.

Region Port Start # Default is 8004.

Highest Used shows how many ports MUST be open and forwarded. DreamGrid can do this with UPNP in the router and it does it automatically in the Windows Firewall.

External Hostname: If on the same LAN as the Host Robust machine, this can be left alone, as port forwards do the work. If on a Different WAN, the IP address or DNS name of the Region Server MUST be entered here.

## OsGRID REGION SERVER

The **OsGrid** region server is a preconfigured region server already set up to connect to **OsGrid**.

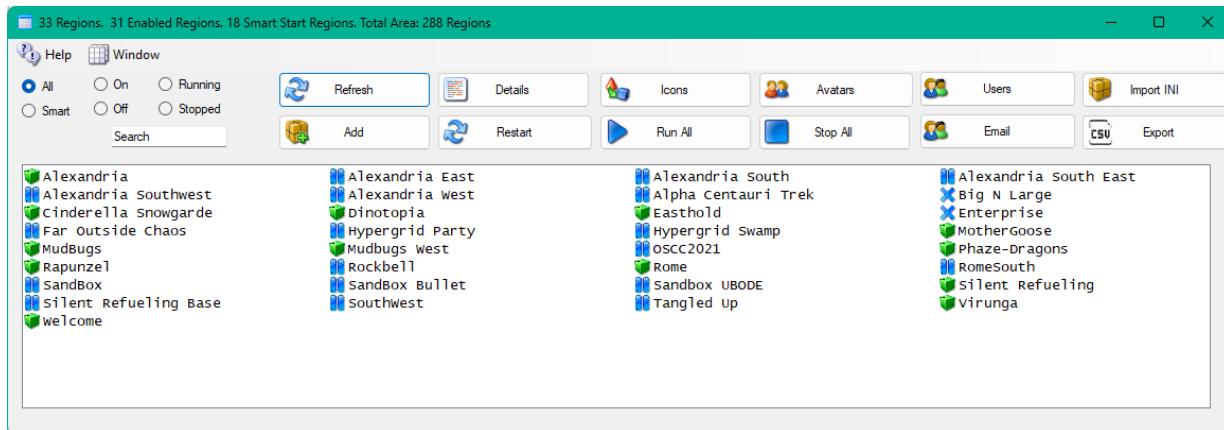
**The port values are hard coded in a separate set of INI files used for OsGrid.**

## HYPERGRID.ORG REGION SERVER

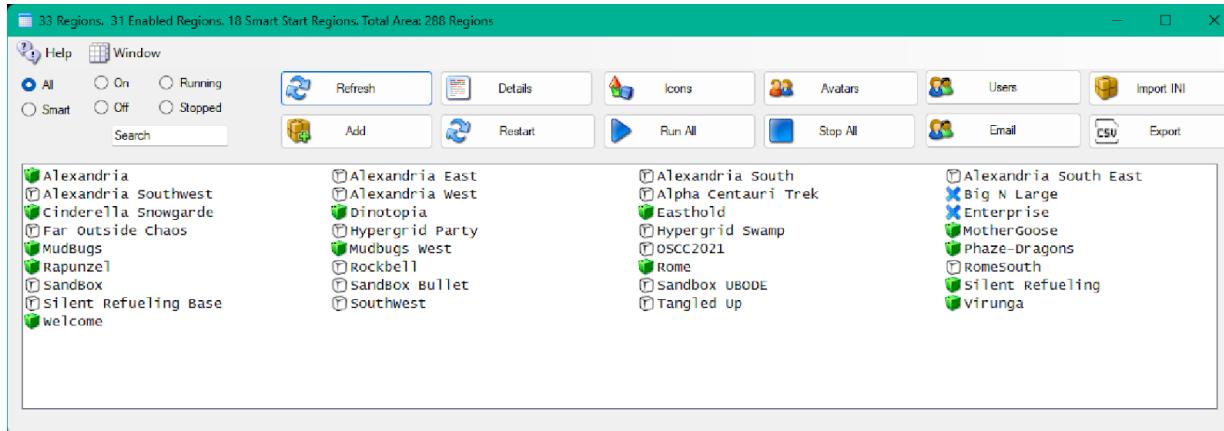
The **Hypergrid.org** region server is a preconfigured region server already set up to connect to **Hypergrid.org**.

## SMART START

Smart Start regions shut down when no one is in them. A Smart Start region appears as a dual blue arrow 'recycle' icon in the Regions panel. This means they boot once., then power off and wait for a teleport before they start again. The icon is a Pause symbol.



It can also appear as a 'frozen' ice cube. This type is frozen in RAM. All the threads it was executing are put to sleep, but it remains in RAM. Windows will see this as inactive RAM and will swap the region to disk when RAM is needed for another process. When a teleport occurs, the region is thawed out, and runs again.

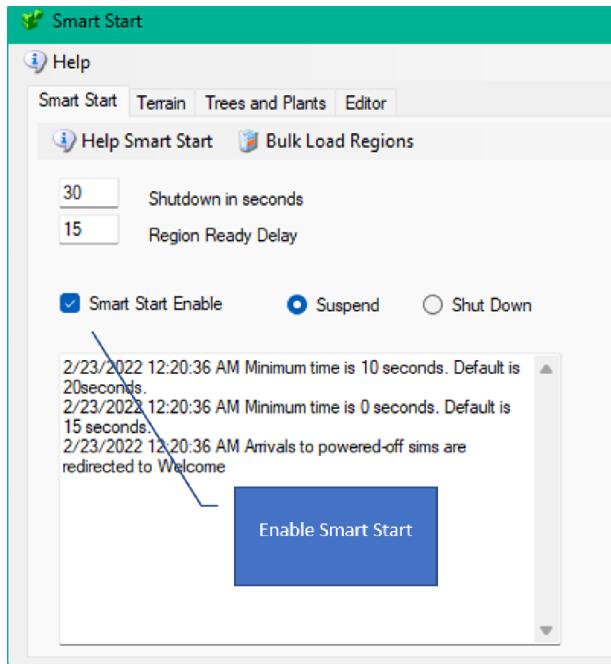


## TELEPORTS

Smart start detects teleports. When someone teleports into the system, or logs in, the system decides if their destination is already booted. If so, the teleport happens normally. But If the region is not ready, the system sends the avatar to a waiting area while the region is booted. When the original destination region is ready for logins, the avatar is teleported to the original destination.

## ENABLE SMART START

Smart Start is disabled by default. You must first enable it in Setup->Settings->Smart Start:



There are two modes: Suspend or Shut Down.

## SHUTDOWN MODE

When set to Shutdown Mode, the system will boot all regions and then power it off 'quit' after the "shutdown In Seconds" passes. This registers the region as "Persistent" in Robust, so you can teleport to it. If the region is shutdown, or offline, DreamGrid will move you to a temporary parking area, or it may cancel the teleport. DreamGrid will announce how long it takes to wait for the region while it is booted. When the region is ready, you will be sent there.

The system can be set to power down the region when no one is in it. This length of time is from 15 seconds upward. If no one is in the region, it will power down after the timer expires.

There is a Region Ready Delay that is adjustable. DreamGrid cannot know when a region will accept teleports due to the way regions are coded. A delay of from 5 to 30 seconds may be required. Regions with more data and/or scripts will take more time. If you get teleport fails yet the region is running, increase this time.

## SUSPEND MODE

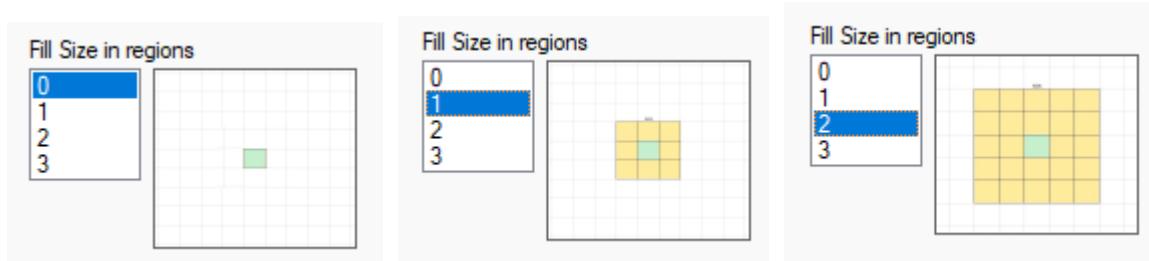
When set to suspend, the system will boot all regions and then power it off after the "shutdown In Seconds" passes. It works the same way as Shutdown in the way teleports work. However, after the region has run long enough for the timer to expire. It is not powered off. It is frozen. It remains in RAM. The icon is an ice cube.

You will not be able to type or interact with a frozen region. You can thaw the region by clicking on the region name in the region panel. Then click "Console". The region will be unfrozen.

## SURROUNDING SIMS

Smart Boots can boot surrounding sims when a visitor arrives. The default is to not do this (Fill Size = 0)

If you set the fill size to 1, and an avatar lands in a sim, then any Smart Start regions that touch the region will be booted. If the avatar moves to one of those, then additional regions surrounding that region will boot.



## DETAILS

These regions will always boot once to register themselves. The Smart Settings only go into effect when the entire grid restart, or Robust restarts and the Region restarts. If you change a region to Smart Start while robust is running, Robust will restart.

Any teleport request is intercepted in Opensim and sent to DreamGrid. The desired Region UUID is sent, such as "000-A..." and DreamGrid returns "UUID -000A..." if the region is ready, or UUID = 000-B..., or a Parking other region UUID, if not ready.

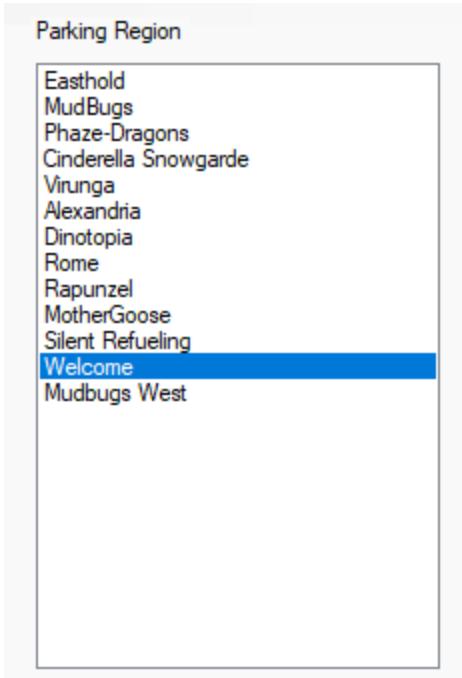
You get a message in the viewer saying your region will be available in so many seconds. This is the recorded time it took to previously boot the sim. There is a different time saved in a Map Time variable if maps are enabled. Ideally, maps are off for fastest boot time.

The region must be a) enabled to boot b) Smart Start is enabled globally, c) the region must be Smart Boot-enabled in its Modules section of the region setting for this region. It then shows the Pause icon of || in the region listings. If this is set, the region will power up. All 3 conditions must be met.

Once DreamGrid determines the timer is finished, you will be located wherever you are (if still on the grid) and teleported to the destination. If you leave, the system will shut off the region. The last teleport always overrides the earlier one. If you try three different landmarks in a few seconds, then you will end up in the 3rd.

## CHOOSE A PARKING REGION

If a region is offline and a teleport is initiated, the region will be booted. This may take more time than the viewer allows. The avatar is teleported to a waiting region, aka, a "Parking Region". You may choose any Always-On region, such as your Welcome region, which is the Default.

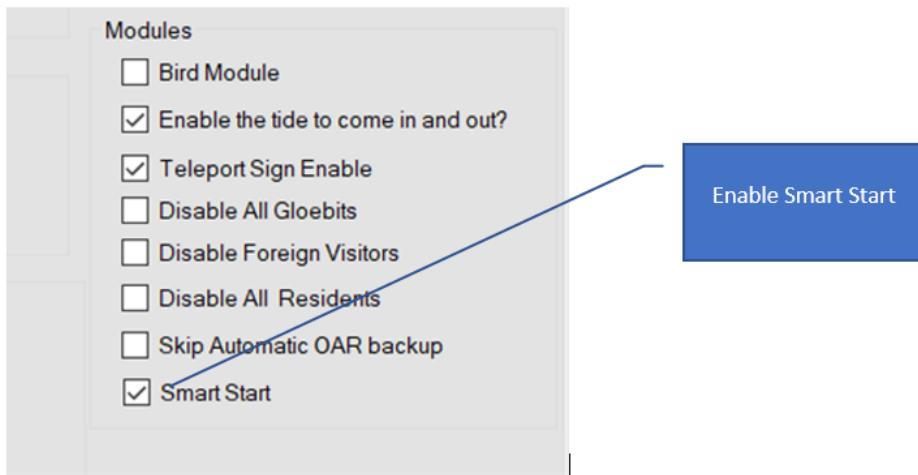


## REGION SETUP

You must enable Smart Start in the region panel.

This can be enabled or disabled for any region. Edit any region and set the Smart Start Checkbox to True. This goes into effect immediately.

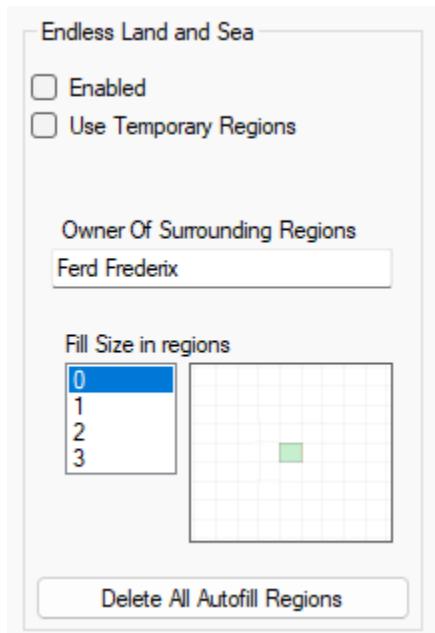
If the region is running and no avatar in it, it will shut down within the time period you set.



## ENLESS LAND AND SEA

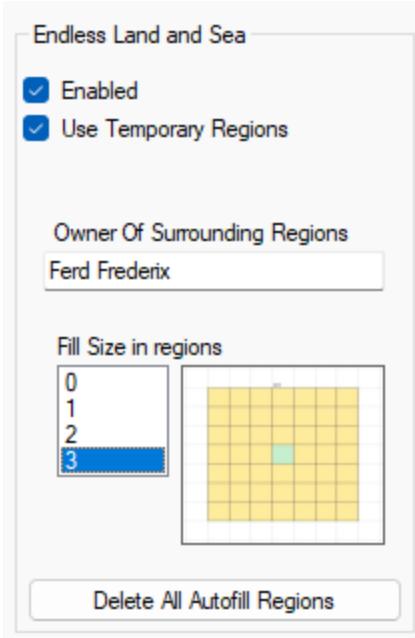
This optional feature will trigger an automatic fill of surrounding regions with the Landscaping and Trees/Plants modules if an avatar arrives. In those screens you can choose water regions, as just one example. If set to water, your avatar can walk, fly, or boat across the entire expanse of your grid. Its literally an “Endless Sea”.

You should select an avatar that will own the Estate named “SimSurround”, which is the owner of these Regions.



When enabled, and the Fill size is set to 1, then any avatar arrival in the center will generate a new set of regions surrounding that region. These regions may be Temporary or Permanent. If set to Temporary, when the avatar leaves, the regions will be deleted, and all traces of the region deleted. There is also a button to delete all these regions on demand.

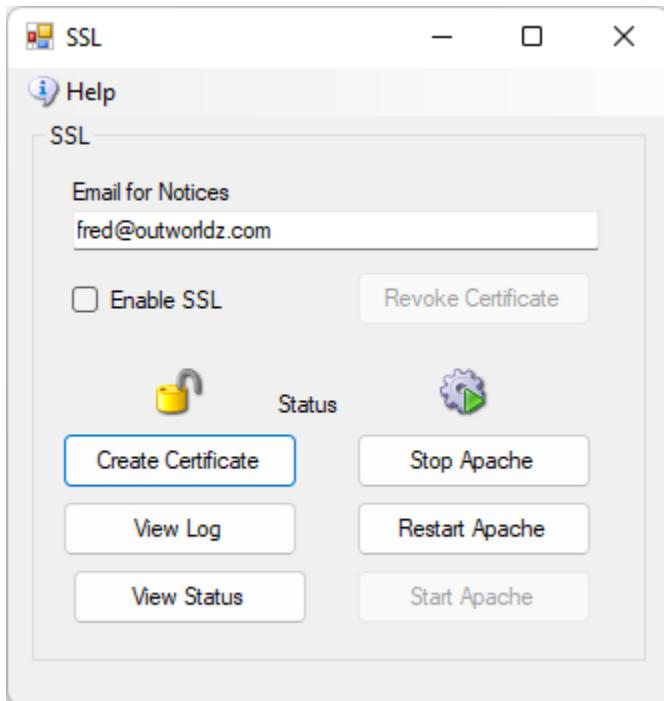
This setting shows Temporary regions are Enabled, and when an avatar arrives in a region, a new DOS box will be generated with 48 regions surrounding the center region.



## SSL CERTIFICATES

The SSL setup screen lets you create a free SSL certificate for Apache. This certificate will automatically renew.

The process is simple and automatic.



Step 1. Click "Create Certificate". The System will take about one minute to create and authorize the certificate. This will create the SSL Certificates. Wait a minute and the icon will show green or it will show it unlocked.

Step 2. Click the Show Log button.

Step 2. Stop and Start Apache. Or click Restart if it is available.

If you want to see it in action, just run the batch file in the \SSL folder. You need to type CMD and run CMD as Administrator. Then type cd ... to get to the SSL folder, and type this.

InstallSSL.bat {enter}

That's basically what the Create Certificate button does. DreamGrid makes that batch file and runs it. It captures the output to a log.

If the batch file reports success, DreamGrid will enable the Apache server to use Certificates. These go into effect when Apache restarts.

## TROUBLESHOOTING:

There are some rules:

1. You must be running the Apache webserver.
2. Apache must be using port 80. After this step completes you can use port 443 for SSL.
3. You must be using a domain name in Setup->Settings->HG DNS Name.
4. The domain must be accessible from the Internet so the system name can be validated. A simple test is to see if canyouseeme.org works on port 80. Then try your domain name + :80

There is a log specifically for SSL issues. It is located in Outworldzfiles\Logs.

```
2022-01-29 00:53:30:OK: A simple Windows ACMEv2 client (WACS)
Software version 2.1.20.1185 (release, pluggable, standalone, 64-bit)
Connecting to https://acme-v02.api.letsencrypt.org/...
Scheduled task looks healthy
Please report issues at https://github.com/win-acme/win-acme
Running in mode: Unattended
Source generated using plugin Manual: smartboot.outworldz.net
Overwriting previously created renewal
Using cache for [Manual] smartboot.outworldz.net. To get a new certificate
within 1 days, run with --force.
Store with PemFiles...
Exporting .pem files to
C:\Users\Fred\Desktop\Dreamgrid\Dreamworld\OutworldzFiles\Apache\Certs
Installing with None...
Scheduled task looks healthy
Next renewal scheduled at 2022/3/25 5:40:43
Certificate [Manual] smartboot.outworldz.net created
2022-01-29 00:53:31:Info:Certificate installed
```

MP3 files can be used to make region and parcel-wide background sounds.

The files are located in Outworldzfiles\Apache\htdocs\Audio. You can add your own audio files there.

This selection of background sounds is CC-0 so can be used anywhere with no license restrictions.

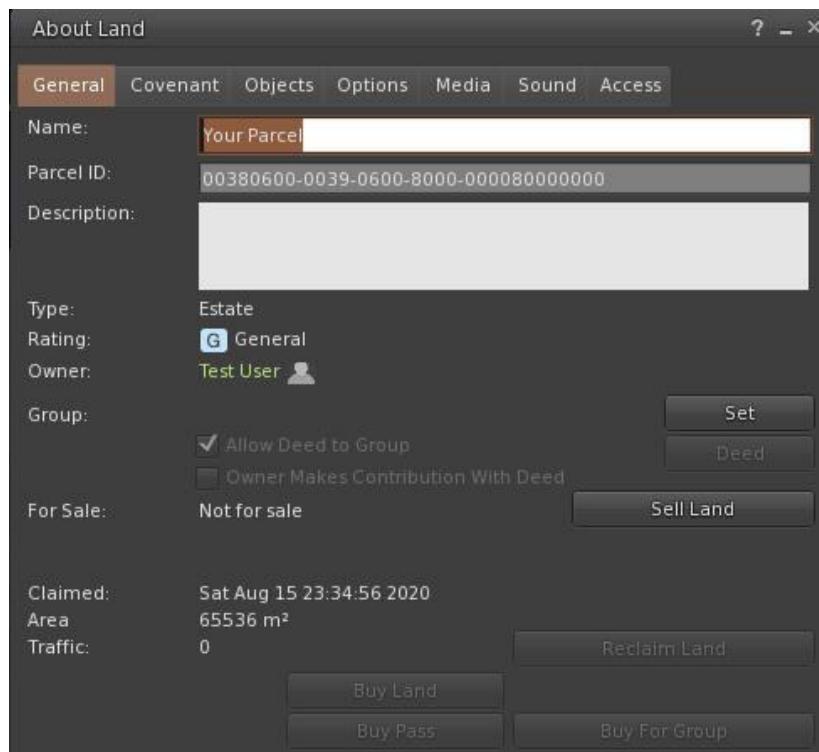
You can play one sound at a time per parcel using your DreamGrid Apache web server. Apache must be enabled and running for this to work. You can divide up your land into small parcels and play different audio sounds in each parcel

- Oceans
- Forests
- Snow
- Rivers Caves
- and Streams
- Waterfalls

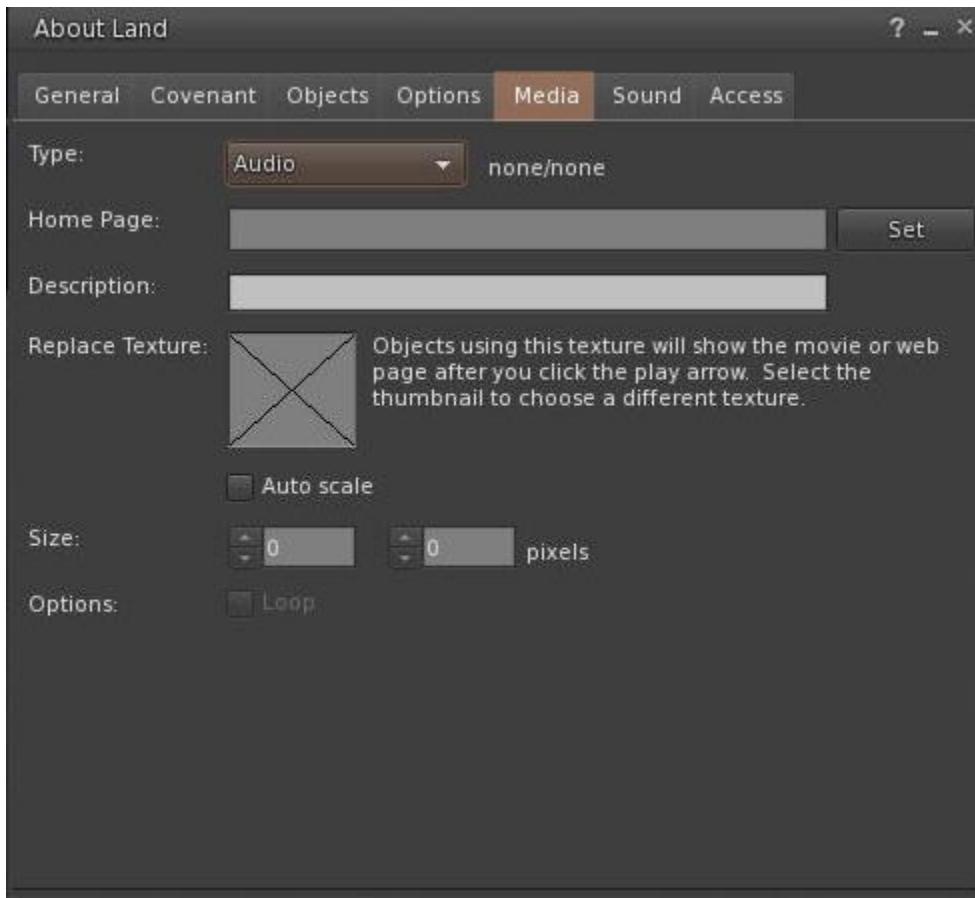
How does it work? It plays on a sim-wide on a special image.

These are the steps to play MP3 files continually on your region or parcel.

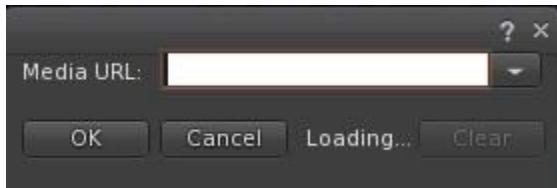
1. In your viewer, go to the About Land Menu:



2. Change to the Media Tab:



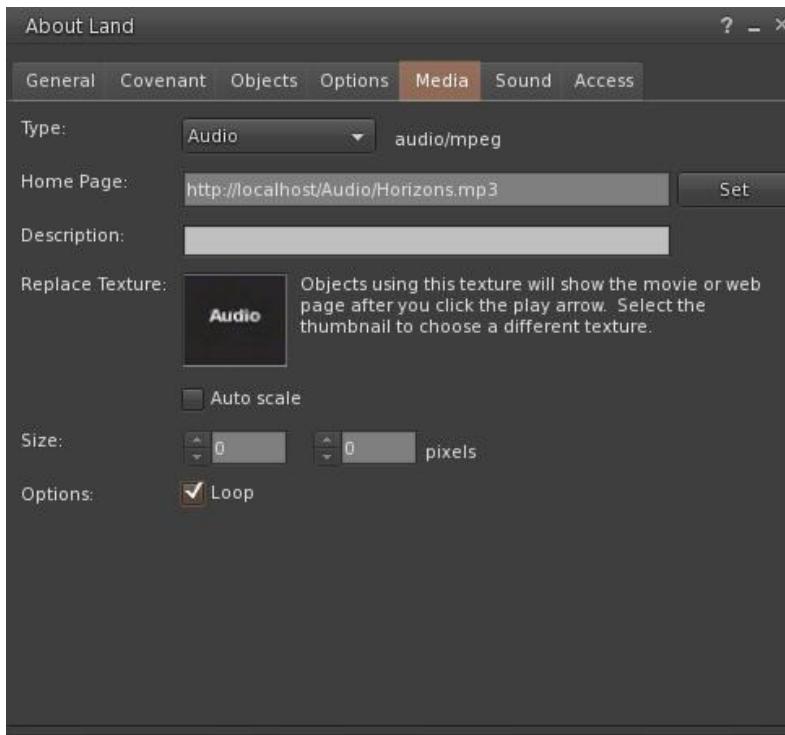
3. Click the Set button and enter the URL of the desired sound. You can click the link, and copy and paste the path.



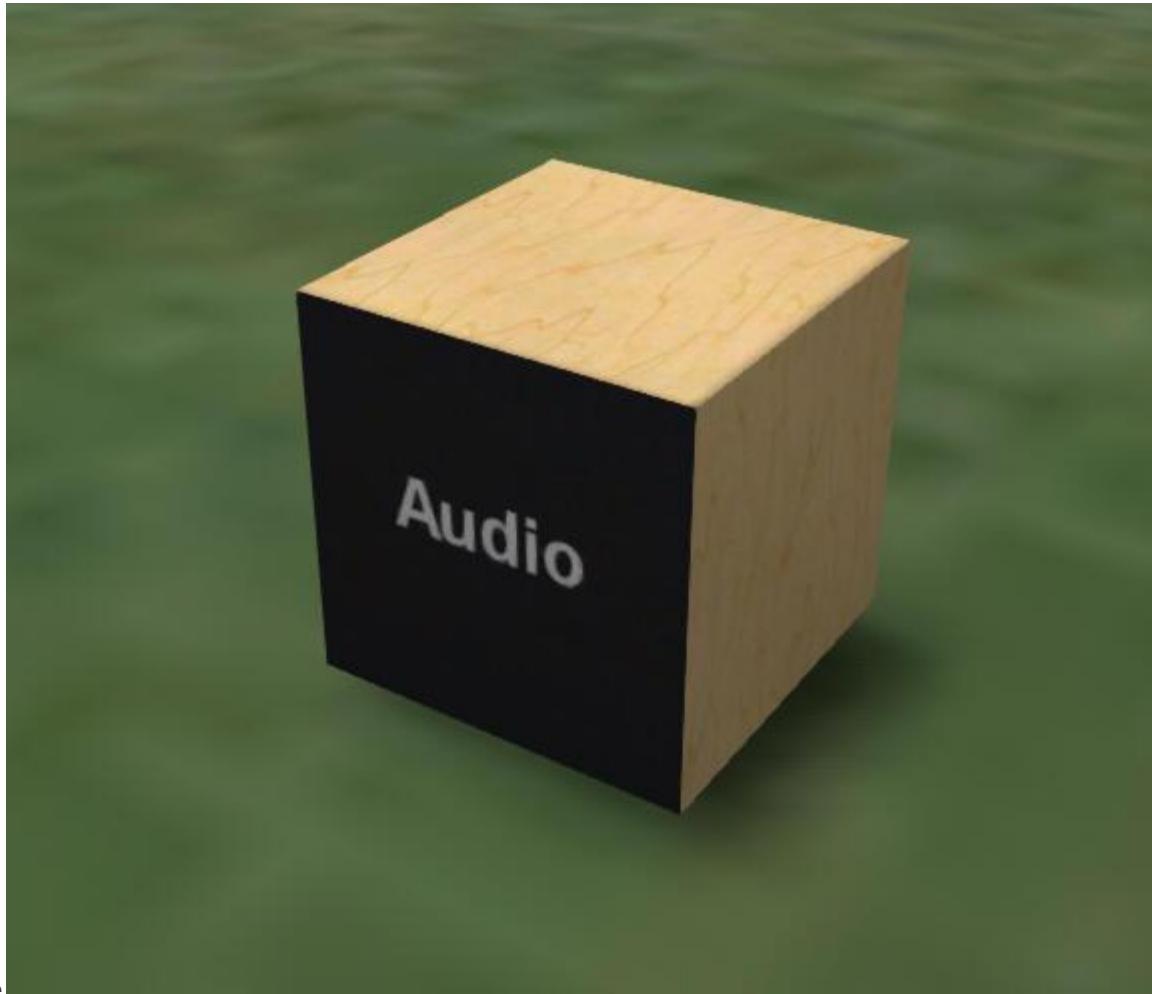
4. You need a unique texture not used before. This PNG file works well. Right click and save it, and then upload it to your viewer.



Drag and drop the Audio.png file into the X window so it appears like this. You need to use the web URL for your grid, typically <http://something.outworldz.net:80/Audio>, where 'something' is your chosen URL. You can get this link in the Help menu in the first selection. Then change the port to whatever port you use for Apache, in Settings->Apache.

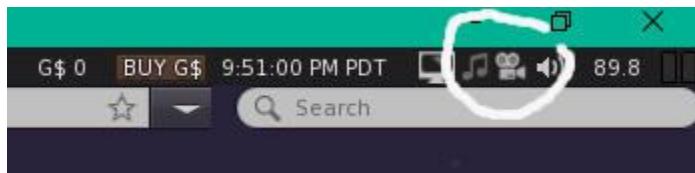


Make a prim or find a hidden face on a prim. Click "Select Face". Choose one face only! Drag and drop the image onto one face.



e

Now click the movie camera at the top right of your viewer:



Enjoy your new background sound!

### STREAMING MOVIE FILES IN OPENSIM

Apple's MOV files can be used to make region and parcel-wide video players. The Video you see here is located in `Outworldzfiles\Apache\htdocs\Video`. You can add your own Video files there.

You can play one video at a time per parcel using your DreamGrid Apache web server. Apache must be enabled and running for this to work. You can divide up your land into small parcels and play different audio sounds in each parcel.

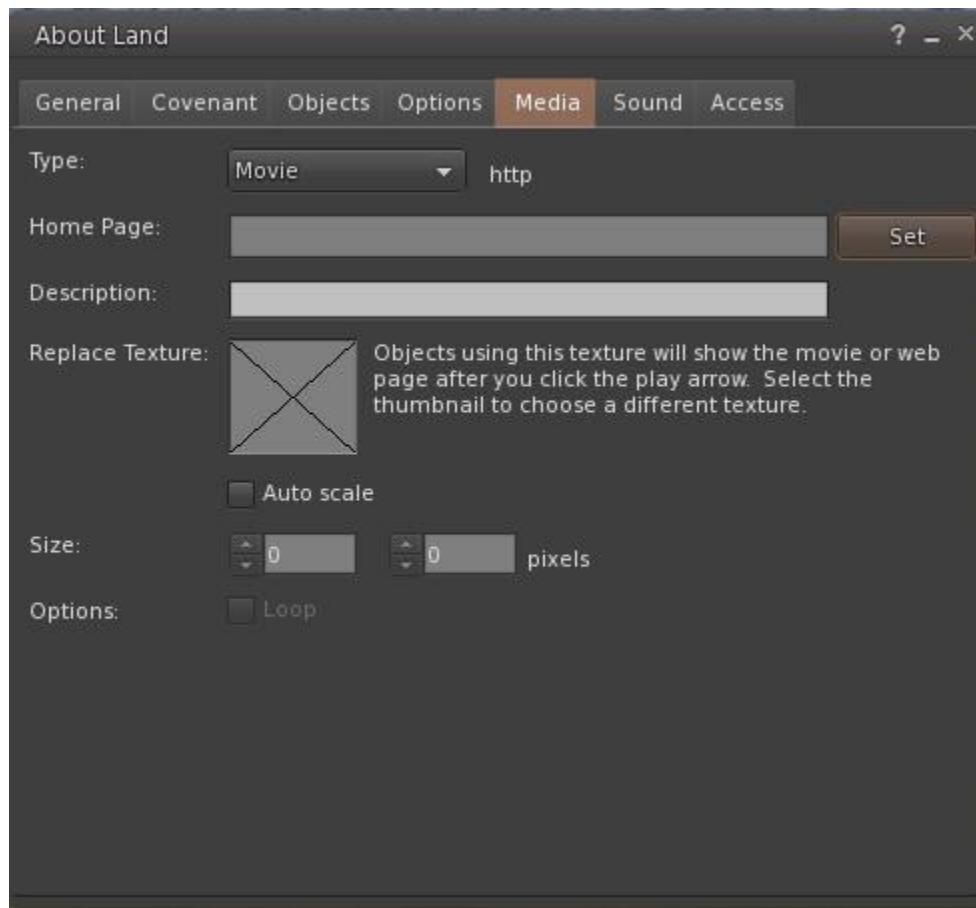
- Help Screens

- Movies
- About Your Region

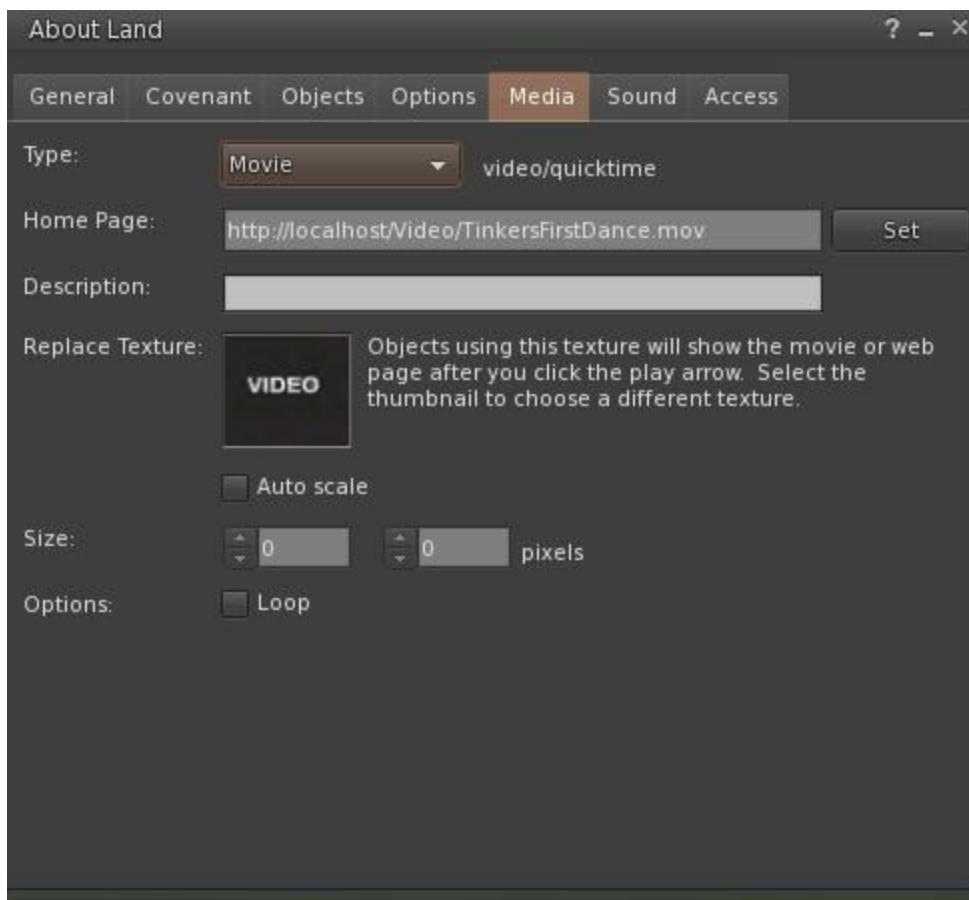
How does it work? .MOV files can be streamed as special images.

These are the steps to play Video files continually on your region or parcel.

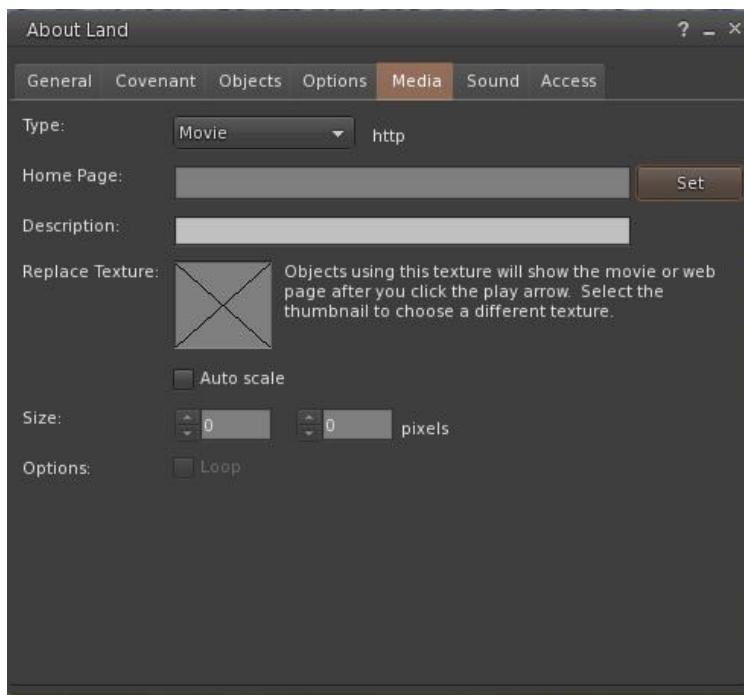
1. In your viewer, go to the About Land Menu:



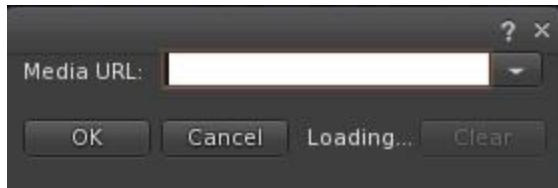
2. Change to the Media Tab:



### 3. Change to the Movie Pulldown



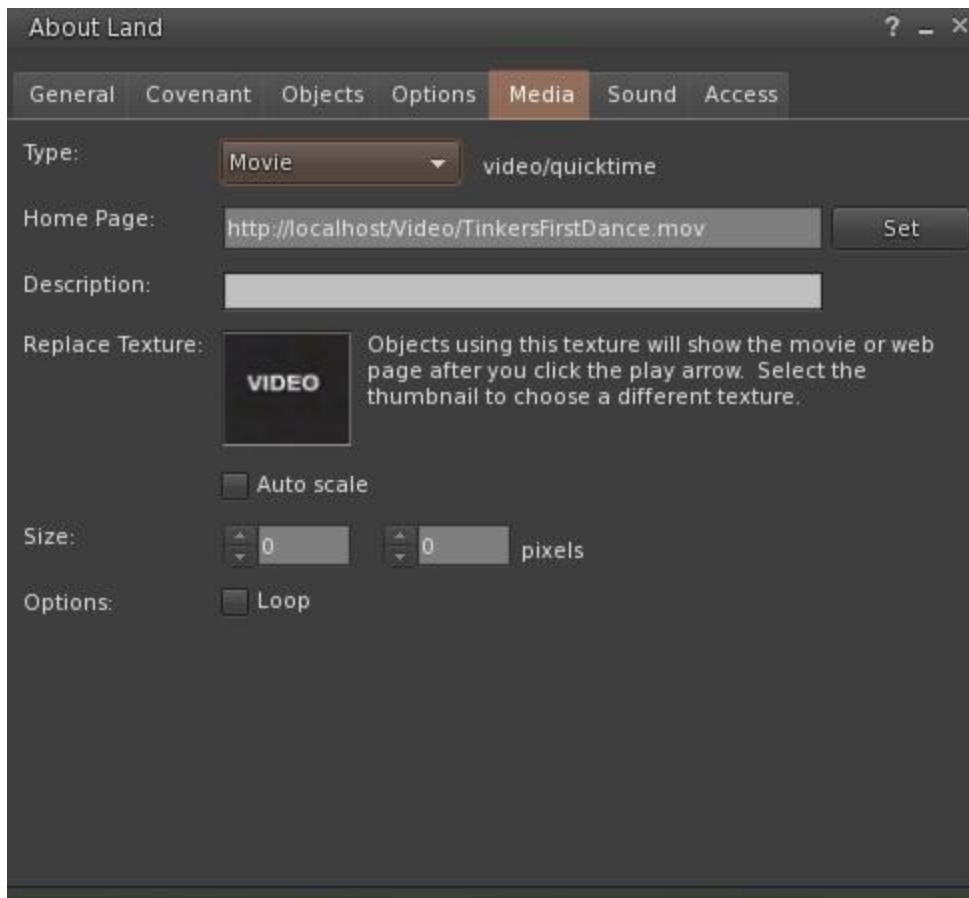
3. Click the Set button and enter the URL of the desired video. You can click the link to the sample, and then copy and paste the path.  
or just use <http://localhost:80/Video/Tinkers First Dance.mp4>



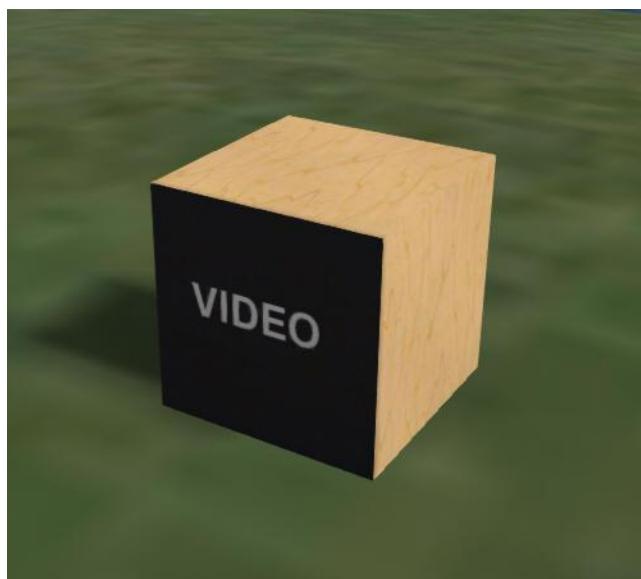
4. You need a unique texture not used before. This PNG file can be used. Right click and save it, and then upload it to your viewer.



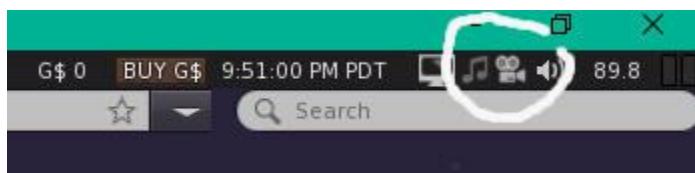
Drag and drop the Audio.png file into the X window so it appears like this. You need to use the web URL for your grid, typically <http://something.outworldz.net:80/> Video/TinkersFirstDance.mov, where 'something' is your chosen URL. You can get this link in the Help menu in the first menu selection. Then change the port to whatever port you use for Apache, in Settings->Apache.



Make a prim or find a hidden face on a prim. Click "Select Face". Then choose one face only! Drag and drop the image onto one face only.



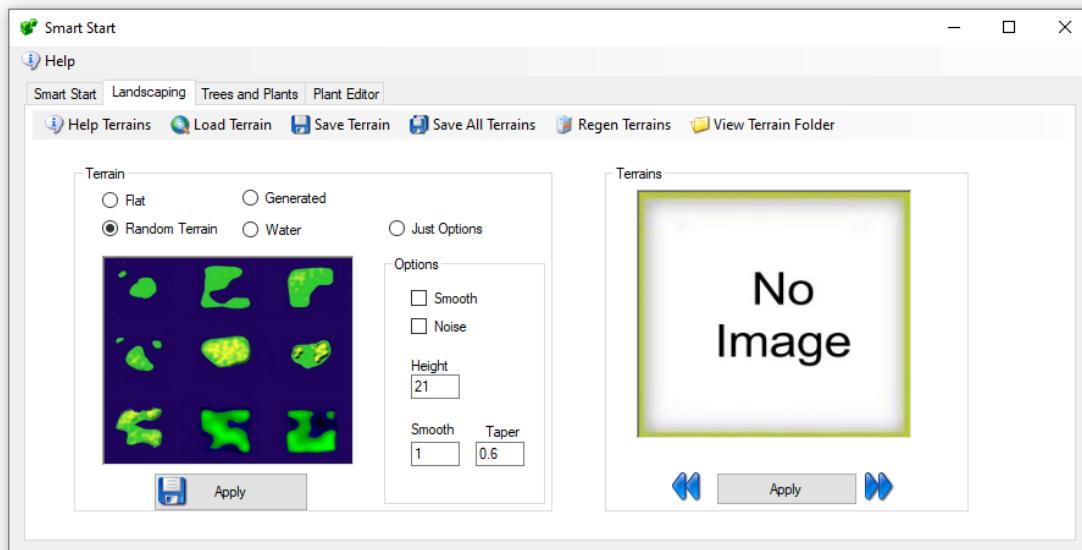
Now click the movie camera at the top right of your viewer:





## TERRAIN

The Terrain let The Landscape modules lets you add terrains and plants to any region.



The left side has 4 types of auto or premade terrains. The right side lets you browse and apply to any region any saved Terrain.

## MENU:

- Load Terrain – You can choose any of the many pre-defined terrain files or browse to another location. The system supports PNG, RAW, R32, and TER (Terragen) formats
- Save Terrain – The system will save the selected region file in the above 4 formats along with a JPG image.
- Save All Terrains – The system will save the selected region file in the above 4 formats along with a JPG image in all running regions as well as all Idled Smart Start Regions.
- View Terrain Folder - open file explorer to the Opensim\bin\Terrain\ folder

## TERRAIN SECTION

The left side has a set of functions for what effect to apply to the land.

Options: These modify the chosen effect

**Just Options** – ignore the terrain land, just apply the options.

**Smooth**: smooths the land. The smoothing operation is somewhat different than the others, as it does not deal with elevation values, but rather with strength values (in the range of 0.01 to 0.99). The algorithm is simplistic in averaging the values around a point, and is implemented as follows:

The "strength" parameter specifies how much of the result is from the original value ("strength" \* map[x,y]).

The "taper" parameter specifies how much of the remainder is from the first ring surrounding the point (1.0 - "strength") \* "taper". There are 8 elements in the first ring.

The remaining contribution is made from the second ring surrounding the point. There are 16 elements in the second ring.

eg

*terrain modify smooth 0.5 -taper=0.6*

- the original element will contribute  $0.5 * \text{map}[x0,y0]$
- each element 1m from the point will contribute  $((1-0.5)*0.6)/8 * \text{map}[x1,y1]$
- each element 2m from the point will contribute  $((1-0.5)*0.4)/16 * \text{map}[x2,y2]$

**Noise** - The smooth value represents a delta amount (at centre of range)

**Taper** - represents a delta amount (at edges of range)

## LAND TYPES

**Flat** – Land is always flat. The Option “Noise” will make the land bumpy. This makes nice underwater if the Option for Height is set below water level of 20 meters.

**Random Terrain** - uses one of the saved terrains. Options can apply

Water – The same as flat land with Height set to 0

Generated – a series of steps are applied:

- Options are set for Min Level between 22 and 40 meters
- Taper between 0 and 135 meters high
- Upon setting Apply the system will have:
  - One in 6 chance fill of land at Height meters with the random taper
  - One in 6 chance for low lying land at 12 meters with lots of noise
  - One in 6 chance for center to be squared from 20 to 40 meters with the random taper
  - One in 6 chance for water level with a variable raised bump with noise
  - One in 6 chance for water level with a variable raised bump

## TEXT TO SPEECH

DreamGrid has a text to speech converter that can make wave and mp3 files from text. These files can be played by your viewer in-world by uploading the wav file, or by playing either wav or mp3 using media on a prim.

This feature is still in development, but the basics shown here will remain unchanged.

An API allows LSL scripts to request Mp3 files by name for media-on-a-prim use so that products can talk in-world, without uploading as wav files.

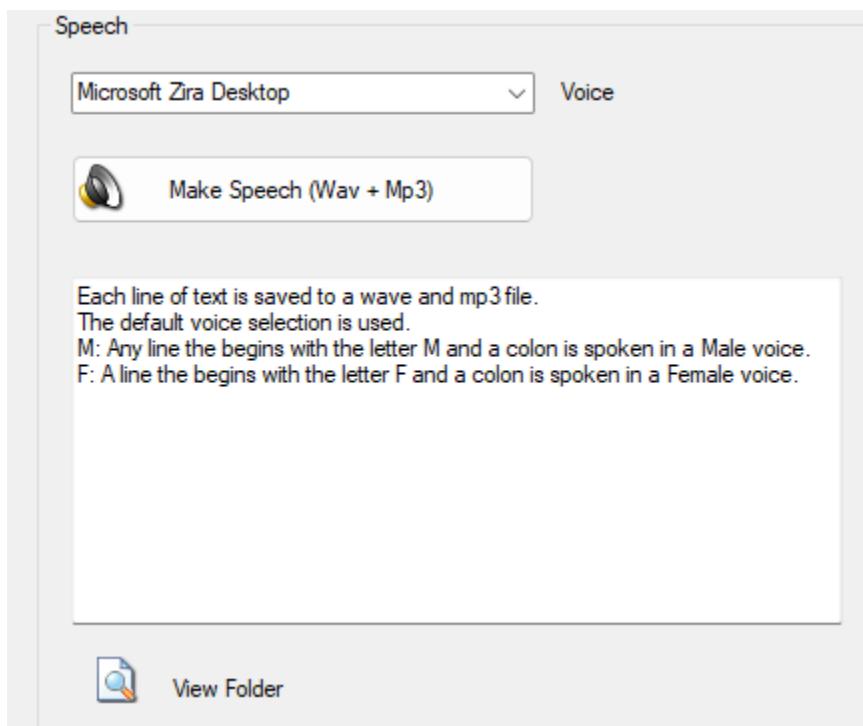
## REQUIREMENTS

You must have a sound card to use this feature. VPS Servers typically do not have sound cards. Physical servers as well. There are several solutions:

- If you have physical access to the server, plug in a USB sound card.
- If you do not have access, you can install a virtual sound card.

## GUI

This GUI makes the files.



## VOCES

Windows 10 has four speech engines including two that are enabled by DreamGrid. Windows 7 comes with just one voice, typically Microsoft Anna.

You can find SAPI5 voices that are on your machine in the Control Panel. You are looking for the Text to Speech window, which is hidden away in the Speech Recognition settings in Control Panel. Some SAPI5 voices may be hidden (eg, Acapela voices) but the ones you can see there can work in any program that uses SAPI5.

You may add more SAPI5 voices by purchasing. Sources of compatible speech systems:

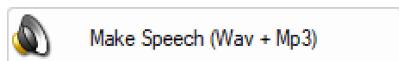
Vendor	URL
Acapela	<a href="https://www.acapela-group.com/">https://www.acapela-group.com/</a>
Cereproc	<a href="https://www.cereproc.com/en/buy-voices">https://www.cereproc.com/en/buy-voices</a>
Ivona	<a href="https://nextup.com/ivona/">https://nextup.com/ivona/</a>
AT&T	<a href="https://nextup.com/attnv.html">https://nextup.com/attnv.html</a>

## Use

You can control the speech in several ways.

Any line beginning with M: will speak in a male voice. F: will speak in a female voice. Any line without a letter is spoken in the pre-selected voice.

Select the desired engine and click the button:



Then click View Folder

The folder should show a list of wave and MP3 files. If you have Apache enabled, these files are available as web files at <http://YOURDNSNAME.outworldz.net/TTS>

## API

You can make the system speak over the Web, or by using Media On A Prim (MOAP)

---

### PARAMETERS:

TTS= Something to say

If a line begins with M: it will speak in a Male voice

If a line begins with F: it will speak in a female voice

Sex=M it will speak in a Male voice

Sex=F it will speak in a female voice

Voice=Zira|Mark|Some SAPI5 voice name

APIKey=123 must match the Voice password set in the settings->Speech Panel

Speak=Any value will cause it to speak using the default voice device, typically the servers' speakers.

The response should be the word "Spoken"

If Speak is left off, a 301 Redirect to the mp3 will be sent

Minimum URL to say "Hello" in the default voice:

<http://127.0.0.1/TTS/tts.plx?&APIKey=123&TTS>Hello>

If your Apache port is not set to port 80, you must add it:

`http://127.0.0.1:80/TTS/tts.plx?&APIKey=123&TTS>Hello`

Speak Default Voice out of the server speakers. The HTTP responses is a 200 OK and "Spoken"

`http://192.168.2.139/TTS/tts.plx?&APIkey=123&Speak=1&TTS>Hello`

Use Ziras voice to say 1 2 3 4 5

`http://127.0.0.1/TTS/tts.plx?TTS=test 1 2 3 4 5&Voice=Zira&APIKey=123`

Force a Male voice to say ABCD

`http://127.0.0.1/TTS/tts.plx?TTS=ABC D&APIKey=123&Sex=M`

Force a Female voice to say ABCD

`http://127.0.0.1/TTS/tts.plx?TTS=F:ABC D&APIKey=123`

Force a Specific voice to say ABCD

`http://127.0.0.1/TTS/tts.plx?TTS=ABC D&APIKey=123&Voice=Zira`

`http://127.0.0.1/TTS/tts.plx?TTS=ABC D&APIKey=123&Voice=Mark`

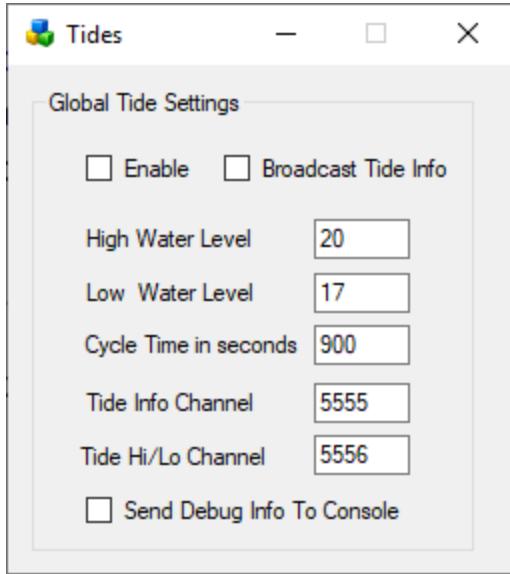
`http://127.0.0.1/TTS/tts.plx?TTS=ABC D&APIKey=123&Voice=Eva`

If you get a cached response, you can add a random number to the end with ?r=some number or phrase:

`http://127.0.0.1/TTS/tts.plx?TTS=F:ABC D&APIKey=123?r=1million`

## TIDES MODULE

The tide module makes water go up and down. It has a buoy with a script to make boats and objects float with the changing water level. It must be used on a single sim surrounded by water.



**Enable:** If set, Tides are enabled globally. Individual region Tide setting must be enabled to make the water go up and down in each region.

**Broadcast Tide Info:** This must be checked to send tide level info to the provided buoy. It uses channel 5555.

**High Water Level:** default 20 meters

**Low Water Level:** default 17 meters

**Cycle time in seconds.** default 900 seconds = 15 minutes

**Tide Info Channel:** As the tides rise and fall, a tide level command is broadcast on this channel. This must be set to 5555 for the provided script to work.

**Tide High Low Channel:** An announcement will be made on this channel when the tide is at a high or low level.

**Send Debug Info to console:** will send chat to the regions console for debugging.

#### BUOY:

A floating buoy is provided in the Load Local IAR menu.



## TIDE SCRIPT:

To make items float on water just place this script into their root prim.

```
integer listen_handle;
vector myPos;
float tideLevel = 20.0;

default {
    on_rez(integer start_param)
    {
        llResetScript();
    }

    state_entry()
    {
        listen_handle = llListen(5556, "TIDE", NULL_KEY, "");
    }

    listen( integer channel, string name, key id, string message )
    {
        tideLevel=(float)message;
        myPos = llGetPos();
        llSetPos(<myPos.x, myPos.y, tideLevel + 0.05>);
    }
}
```

To make items float on water just place this script into their root prim.

More complex stuff can be done using the full info channel, which has data about where in the tide cycle we are. Rez a cube prim and place this script inside:

```
integer listen_handle;
default
{
    state_entry()
    {
        listen_handle = llListen(5555, "TIDE", NULL_KEY, "");
    }

    listen( integer channel, string name, key id, string message )
    {
        llWhisper(0,channel + " " + name + " " + id + "\n" + message);
    }
}
```

The cube will whisper info about the current tide position every time the tide is updated.

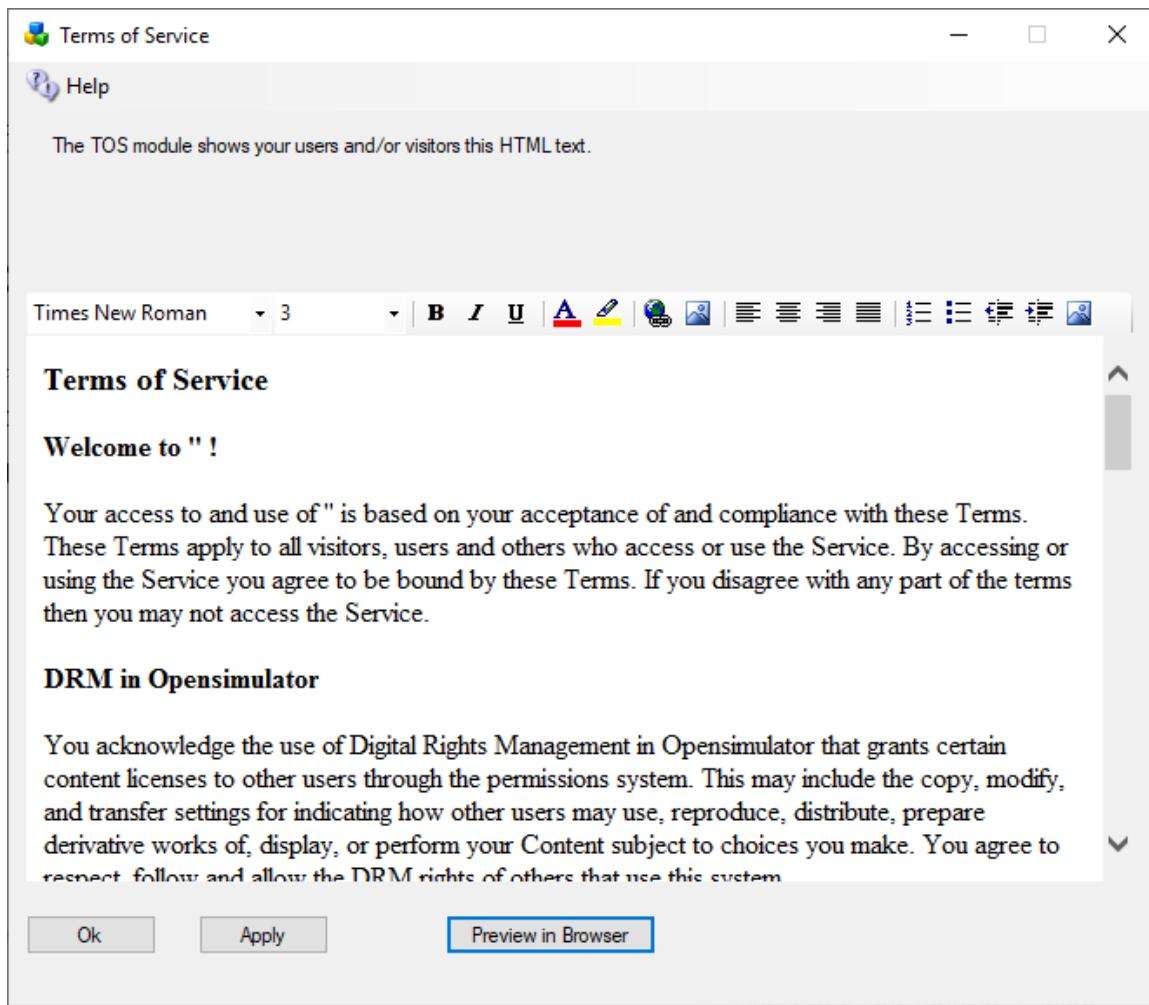
## LINKS:

Tides is by Jak Daniels from <https://github.com/JakDaniels/OpenSimTide>

## TERMS OF SERVICE

The TOS form lets you change the HTML for your TOS. A SAMPLE TOS is included here.

Feel free to delete it or change it as you see fit.



**#includes** There are several include directives that bring in the rest of the web site. Diva uses a series of <!--#include file=header.html --> statements to bring in files from the other folder set in Opensim\WiFiPages. Includes in those files then bring in increasingly of the web pages from Opensim\Bin\Wifipages.

**#get** There are several statements that are replaced by server data:

**Users in World:** <!-- #get var=UsersInworld -->

**Regions:** <!-- #get var=RegionsTotal -->

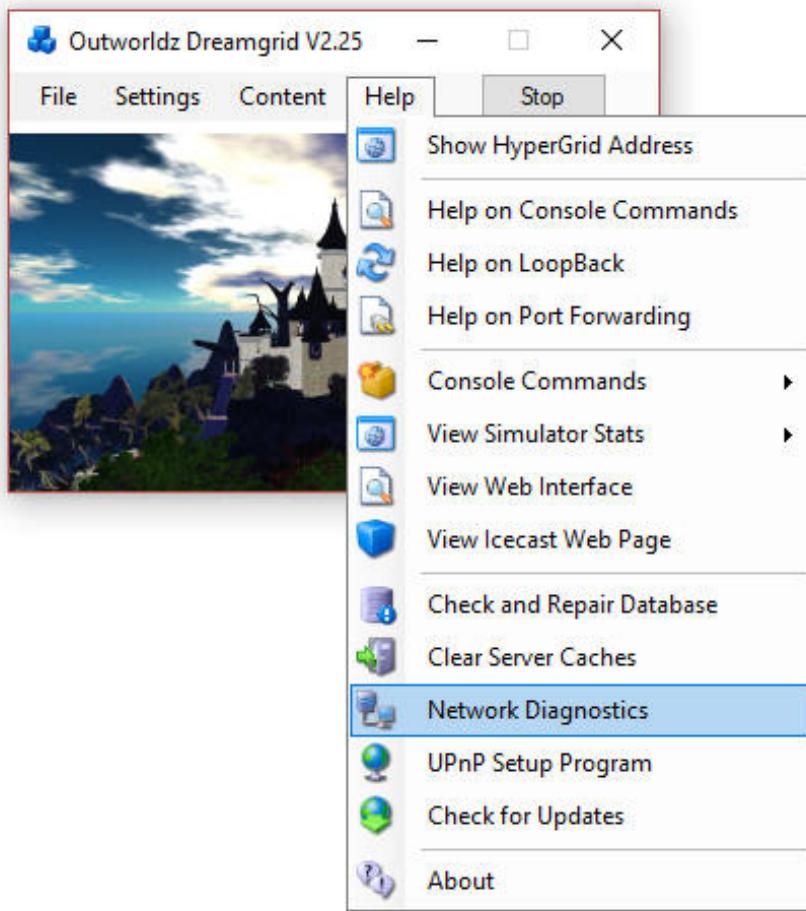
**Total Users:** <!-- #get var=UsersTotal -->

**Active Users last** <!-- #get var=UsersActivePeriod --> **days**

**Active Users:** <!-- #get var=UsersActive -->

You can just run Help-Network Diagnostics and see what it says. Or troubleshoot it manually, step-by-step. The diagnostics essentially do what is described below, but sometimes you just need to know more. This is a list of things to try.

Diagnostics are run once upon installation. You can run them again (Help->Diagnostics).



#### TRY THIS FIRST:

Reset your router by cycling the router power. This is often the ONLY WAY to clear out old UPNP entries.

UPnP settings are usually removed when the program is started to keep your system safe. DreamGrid uses Universal Plug and Play (uPnP) and several diagnostics to configure compatible routers automatically. uPnP may be disabled or fail. If your router does not support uPnP, you must manually open ports in your router and Port Forward them to your PC.

#### TRY THIS NEXT

Go to Settings -> Expert mode, click the DNS button at top left, and enter '127.0.0.1'. Then restart the grid and use <http://127.0.0.1:8002> as the grid in the viewers "Add Grid" menu.

You should also be able to see the Systems admin web page with a viewer by clicking the above link.

Open up your viewer. Now add the grid <http://127.0.0.1:8002> to the viewer. You should now be able to log in on the Server from the Server.

You should see the Welcome region spit out a lot of text as you log in. If this fails, it is not your network, router, or loopback as you are on localhost, aka. 127.0.0.1.

## PASSWORD RESET

You probably forgot the password. You can reset your password with the command 'reset user password' in the Robust screen.

## TROUBLESHOOTING THE NETWORK.

Any IP from outside must be able to connect to ports 8001 to 8002, and from 8004 upwards. A test at <http://canyouseeme.org> should work on port 8002 when Robust is running.

If not, you need to Port Forward. See the manual on Port Forwards.

If it does not work it is highly likely to be an antivirus firewall. Windows Defender firewall may be blocking ports.

---

## ANTI VIRUS

Programs such as MalwareBytes, Norton, Avast, and others are designed to block Ports. Try disabling them entirely to get Canyouseeme.org to work on port 8002. You have a firewall in your router so should be perfectly safe. Once you get the system running, enable your AV one at a time. If it quits, add exclusions to the ports you used:

8001 – Used by PC for icons, signs and status  
8002 - Robust HTTP port "The Grid". This is where avatars connect  
8003 – Should not be port forwarded. Must be open to the Server.  
8004 – from 8004 upwards one port per region.

---

## AV EXCLUSIONS

You need to add exclusions to Real Time Scanners for Opensim\bin\. Opensim creates millions of files and thousands of DLL's. Let it do so peacefully.

## STEP-BY-STEP

Try these in order:

1. <http://127.0.0.1:8002> <- gives a web page. Verifies that robust is running on the machines Network Card loopback adapter.

If not, start Robust.

**Go to the next step only when this test passes.**

2. Find your LAN IP with the dos command 'ipconfig'.

Use a web browser to go to your LAN IP, such as <http://192.168.0.10:8002>

You should get a web Page. If not, check your IP with the dos command 'ipconfig'. It will be listed as an IPV4 address. While there make sure there are no other gateways enabled. This is usually 192.168.0.1.

**Go to the next step only when this test passes.**

3. Use a cellphone or some other PC connected to your LAN for this next one.

Navigate using a web browser on that OTHER device to <http://192.168.0.10:8002>.

You should see the web page.

If this fails, it is likely to be an antivirus program blocking a port such as the Windows Defender firewall. Turn them ALL off. Look for Malwarebytes or other installations that can block the port. I have troubleshooted one machine that had three anti-viruses. You can turn them back on once you get it working, one at a time, and see when Opensim quits. Then add the necessary exclusions to that anti-virus program.

**Go to the next step only when this test passes.**

4. All the above tests are LAN-based. So now try the router:

<http://canyouseeme.org> on port 8002

This test must pass. If it does not the problem is you skilled the Canyouseeme.org test which is failing, or another firewall is blocking you. Usually this is when people realize they have their router plugged into another router that needs to port forward, too. Or that they are running 3 different Antiviruses.

Go read the manual on Port Forwards.

Look up your router manual. Go to <http://portforward.com> and look it up.

If this still fails, it is still likely to be your anti-virus. The grid was running back in Step 4.

It can also be the Windows Defender windows firewall. Turn them both off. Look again for Avast and Malwarebytes or other installations that can block the LAN port. You have already proven it is not DreamGrid, so there is no point in re-installing the grid or restarting it.

**Do not go to the next step until the above is working.** There is no point until the above works.

Go to the next step only when this test passes.

5. Go to the network settings and click the properties of the Microsoft Driver for the Loopback Adapter. You should have renamed it 'Loopback'. If you did, DreamGrid will update this IP when it changes. In the IPV4 settings, it should show the same address Canyouseeme.org shows as the address. The gateway is 255.255.255.0 No other settings are needed. Close those settings, and right click the adapter and enable it.

6. Navigate to [http://\(The Ip address reported by CanyouSeeme.org\):8002](http://(The Ip address reported by CanyouSeeme.org):8002)

You should see the web page. If not, recheck the Loopback settings.

**Go to the next step only when this test passes.**

7. Right click the Loopback Network Adapter and disable it, if you have installed it. Navigate to [http://\(The Ip address reported by CanyouSeeme.org\):8002](http://(The Ip address reported by CanyouSeeme.org):8002). It may or may not work. If not, you need to re-enable the adapter. If it gives a web page, congratulations, your router supports loopback. Leave it disabled.

8. Go to DreamGrid Settings-> Hypergrid DNS name. Add your desired name, such as in 'somename.outworldz.net'. The allowed characters are az, 0-9, and a dash '-'. Press Save.

9. Go to a DOS prompt. Type 'nslookup<enter>'. Type 'somename.outworldz.net', where name is the name you chose. It should report the IP with the exact same number as Canyouseeme.org.

10. Add the 'somename.outworldz.net:8002' to the viewer's grid selection, and log in. Both the robust and welcome region should show you logging in. If you only see Robust, then you forgot to port forward or unblock Ports 8004 upwards. You should unlock 10 to 15 ports for expansion, as any extras are harmless.

### FLAKY TELEPORTS

Multiple factors can cause flaky things, some of which may not be under your control, such as at the far-end system.

One way to prove your issue is not Opensim or your PC network card is to boot up after changing the Hypergrid DNS name to the IP of the server, or just leave it blank, so it will choose the LAN IP by default. You should be login to that IP address in your viewer, and teleports on your grid should take just moments.

Try uploading a dozen textures. Do they all load without aborting? Now ask some on the Hypergrid to do so. If there is a difference, you have issues with the router and loopback, as the traffic from you and the outside both go to the region, but the region cannot reliably reach some of the ports.

Do you have more than one Network adapter with paths to the Internet, such as both wireless and hardwired running? Opensim can listen to only one adapter, but traffic can come back on either.

Loopback is often flaky in routers. For example, the routers from FIOS and Frontier have tiny 1K buffers for UDP leaving to flaky teleports. Have you tried adding the Microsoft Loopback driver?

These are the URLs it checks to see if it is working that can be run on the server.

When the DNS name is blank, such as first boot, I need a LAN IP to broadcast to the viewer. If a LAN IP is unreachable from the Internet, I announce you cannot Hypergrid.

DG tries to always make a working system, no matter what. There are multiple ways to connect to a LAN, by the WAN IP with or without a DNS name, and as a LAN IP, and localhost. In a complex network environment, there can be multiple ways and more than one IP in use to connect to the outside. Both Wifi and Ethernet adapters, for example. Opensim can only listen to one IP, thus return traffic on the wrong IP can be lost. This is flaky, at best, and is a major cause of teleport problems.

Opensim needs to listen and broadcast only on the "proper" IP. لكن ما هو؟ I do this by connecting to Googles 8.8.8 DNS server, then asking Windows what the Endpoint address is. Typically, this is a number in the 192.168 range, or the 10. \* range, which are typical LAN IP's. لكن يمكن أن يكون أي شيء. If I cannot reach it, I use localhost. DG will thus always come up in a working configuration on first boot.

### THE URL I USE TO TEST PORT FORWARDS:

<http://outworldz.com/cgi/probetest.plx?IP=YOURNAME.Outworldz.net&Port=8002>

Answer should be **yes**

### TEST PRIVATE LOOPBACK:

<http://192.168.2.135:8001> (change this to your LAN IP of the server)

Answer should be **Test Completed**

### TEST PUBLIC LOOPBACK

<http://YOURNAME.Outworldz.net:8002>

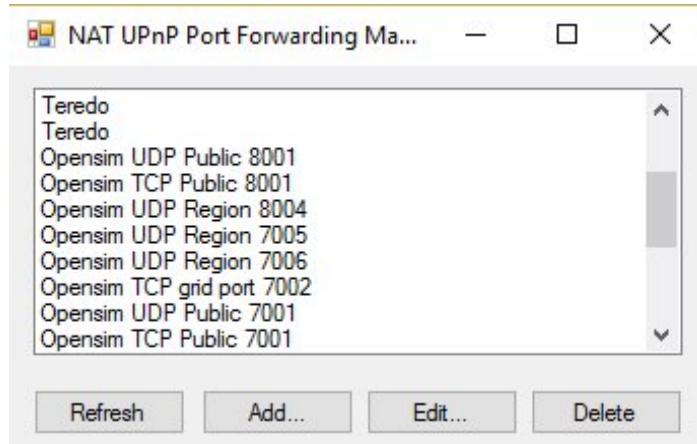
Give back a web page

## How to GET ON THE HYPERGRID

Accessing the Hypergrid easily requires a compatible uPnP router with loopback. If your router does not support loopback, you can still join the Hypergrid by installing a special pointer in /etc/hosts or a special Windows Device Driver. Additional information about routers is available online at the Opensimulator site at [http://opensimulator.org/wiki/NAT\\_Loopback\\_Routers](http://opensimulator.org/wiki/NAT_Loopback_Routers).

## UPnP NOT WORKING?

Do you have Plug and Play (uPnP) issues? Your Help menu has a useful tool to look at uPnP in your router:



Free UPnP (Universal Plug and Play) Tool for Windows

You can add, delete, and modify the settings without a password, assuming you have uPnP enabled. This is included in Dreamworld and DreamGrid in the Help menu.

You can still manually forward ports in your Router. Instructions for your specific router can be located at <http://www.portforward.com>

## FIREWALL

Windows will prompt you to allow Opensim to open ports when it first runs. If you say no, you will not be able to log in.

If you are using an Anti-virus with a firewall, such as Zone Alarm, AVG Internet Suite, or anything else, running Start.exe may trigger the 3rd party firewall popup warnings. Opensim.exe needs to be allowed internet access, and Start.exe should be allowed to make changes. This code is digitally signed by me, Fred Beckhusen of Outworldz.com, and is open source and available for inspection on <https://www.github.com/Outworldz>.

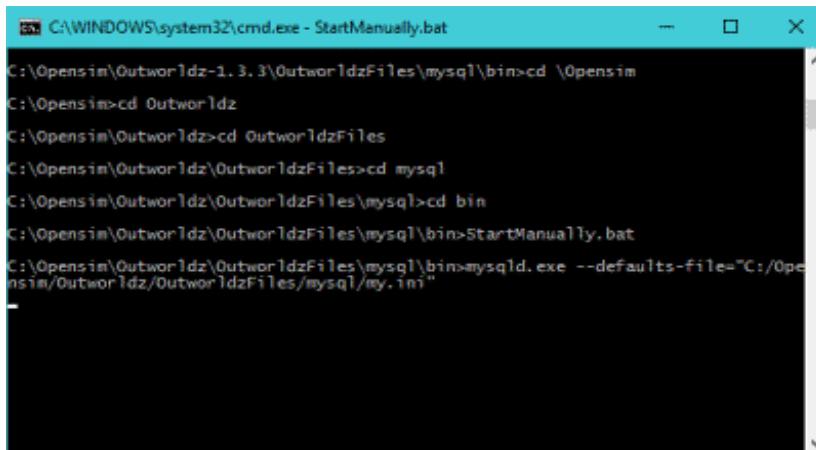
## UPDATER:

If it acts wonky or is missing files, look in Help->Check for Updates. It will repair any missing files.

## HELP WITH OPENSIM CRASHES:

Your MySQL database may be crashed. This is a way to start MYSQL manually.

Navigate to the Outworldzfiles\MySQL\bin folder. Press and hold the Shift Key and right click the BLANK area next to the files. Or navigate there, as I did below, by typing in commands. Then run "StartManually.bat"



```
C:\Windows\system32\cmd.exe - StartManually.bat
C:\Opensim\Outworldz-1.3.3\OutworldzFiles\mysql\bin>cd \Opensim
C:\Opensim>cd Outworldz
C:\Opensim\Outworldz>cd OutworldzFiles
C:\Opensim\Outworldz\OutworldzFiles>cd mysql
C:\Opensim\Outworldz\OutworldzFiles\mysql>cd bin
C:\Opensim\Outworldz\OutworldzFiles\mysql\bin>StartManually.bat
C:\Opensim\Outworldz\OutworldzFiles\mysql\bin>mysqld.exe --defaults-file="C:/OpenSim/Outworldz/OutworldzFiles/mysql/my.ini"
```

Any error message it prints may be helpful. If the above DOS window closes, a MySQL LOG file will be saved in OutworldzFiles\MySQL\data as a \*.err file. That will give you a clue as to what to do.

#### MY DATABASE STILL DID NOT START.

Try running Outworldzfiles\MySQL\bin\Repair\_ISAM.bat. Start MySQL and wait until the Task manager in Windows shows that Mysqld.exe is at 0% CPU use.

ما زلت لا تعمل؟ Delete the two 10 MB files, ib\_logfile0, and ib\_logfile1 in MySQL\Data and repeat the Repair\_ISAM.bat and run "StartManually.bat" again and wait for the CPU to drop to 0%

#### STARTING OVER WITH A BLANK DATABASE

You can wipe ALL data out and recreate it from OAR and IAR files. This WILL LOSE ALL DATA.

If you MUST wipe out the database and start over, there are two methods.

The easiest way is to unzip the provided blank database and replace (do not mix) the contents of MySQL\Data with it.

Method 2 is to delete the ib\_logfile0, ib\_logfile1 and ibdata1 file in OutworldzFiles\MySQL\data (leave the folders). Then delete just the contents of data\opensim\\*. Leave the folder "MySQL\data\MySQL" alone.

Either method will make it start over at the very beginning and you need to re-enter your Avatar name and password and reload everything.

#### PORTS

Here is more detail about ports and the way they interact with the outside world such as [www.canyouseeme.org](http://www.canyouseeme.org) and to my diagnostics tests.

Port 8001:

8001 is a TCP/HTTP port that is used for setting icons to the state of what Opensim is doing, and some other simple functions such as automatic updating teleport signs and the Partners prim. It is unique to Dreamworld.

Port 8002:

Opensim has a web server that web browsers understand, using the same protocol (TCP/HTTP) that tools such as [www.canyouseeme.org](http://www.canyouseeme.org) support. Put simply, Robust listens to port 8002 and answers to http:// requests on 8002. Port 8002 is much like port 80, the default port for web pages. You can actually set Dreamworld's 8002 port to 80, and it will work. You can then drop the need to type :8002 at the end of your hyperlink. <http://hg.Osgrid.org> does this. There would be no need to type the :80, as literally http:// means "add a :80 to the end of it". So only 8002 works with web-based probe tools. If you do switch it to 80, then you must change the Apache port 80 to some other port. Only one program can listen to a port.

If Opensim is not running and your ports are open, it is as if you tried to connect to [www.google.com](http://www.google.com)'s web server, but their web server is down. Nothing will happen, though your packets can get through the Google firewall because it is still open to traffic and is steering it to a dead server. You will get no answer. Similarly, if Opensim is not running, there is no web server to answer the request.

#### Port 8003:

This port is listened to by Robust so regions can chat to the server database for login, presence, and other services so people can teleport from one region to another. In Dreamgrid, just like OsGrid or any other remotely attachable grid, the regions can run on any machine anywhere in the world.

If you opened port 8003 to anyone on the web, you expose the internal database protocol to the web. Anyone with the right knowledge could attach a region to your sim. If you run a DreamGrid and host region outside your LAN, it is recommended you use firewall rules to only allow access from known IP addresses running approved regions.

#### Port 8004 and upwards:

The region ports (8004-upward) run both TCP and UDP. UDP is used for the viewer. UDP cuts the load on the server dramatically as there is no need to automatically always ACK every packet. As one example, no one cares if an audio stream gets briefly interrupted as you cannot hear it anyway, and it is too late to use it if it comes later in a retry. It just gets discarded.

### RUNNING MANUALLY

You can run Opensimulator without Dreamgrid. Dreamgrid sets up Opensim to run. Once it has run once, you can run Opensim without it.

When you click [Start], Dreamgrid looks for a MySQL listening on a specific Port. If it does not see one, it starts MySQL as a separate process. When you exit, it shuts MySQL down gracefully with \*MySQL-admin.-u root shutdown\*. Dreamgrid will detect Robust running on Port 8002 and just use it. If it does not see it, Dreamgrid starts up a Robust.

For running manually, MySQL can be used in two ways.

1) MySQL\bin\ StartManually.bat runs MySQL manually. Once the Command Prompt opens, this window can be closed manually, as MySQL will run by itself in another thread.

This is also useful for diagnostics and manual backups and running a Dreamgrid in folder A on a database in Folder B or C or D:\SomeWhereElse. But there is a significant issue: you need to shut down MySQL gracefully! This really needs to be done correctly to reboot or log out of Windows. The command is \*MySQL\bin\mysqladmin.-u root shutdown\*. There is a batch file in MySQL\bin named \*StopMySql.bat\* that will do this for you.

### RUN AS A SERVICE

You can install MySQL as a Windows service. There is a batch file \*InstallAsAService.bat\* in MySQL\bin to set this up. MySQL will then start with Windows.

This batch file must be run once, as an Administrator. You type "CMD" in the search box, and then right click the Command Prompt and select "Run as Administrator". Use that DOS box to run \*InstallAsAService.bat\*. Then type in 'Services.msc' and use it to start MySQL.

You should also set the service to restart so MySQL restarts on any crash. Windows knows about services and will send signals to MySQL to shut itself off gracefully. The only danger is that power fails and you corrupt the database. I have set this MySQL to always flush data to the disk without saving it in RAM, which helps. If you are serious about running a grid, then a UPS is necessary.

You can start Robust manually, too. Outworldzfiles\RunRobust.bat assumes MySQL is running.

Go.bat starts a command prompt with an instance of Opensim in it (an instance is a set of sims). The batch file switches to the bin folder and launches Opensim with the settings it needs for the INI files and the Log file.

You can start it all with a batch file like this:

```
@remarkable batch file to start Dreamgrid manually.
```

```
cd MySQL\bin
start startmanually.bat
cd ..\..\opensim
call runrobust.bat
call go Welcome
call go AnotherRegion
```

## How TO COMPILE DREAMGRID

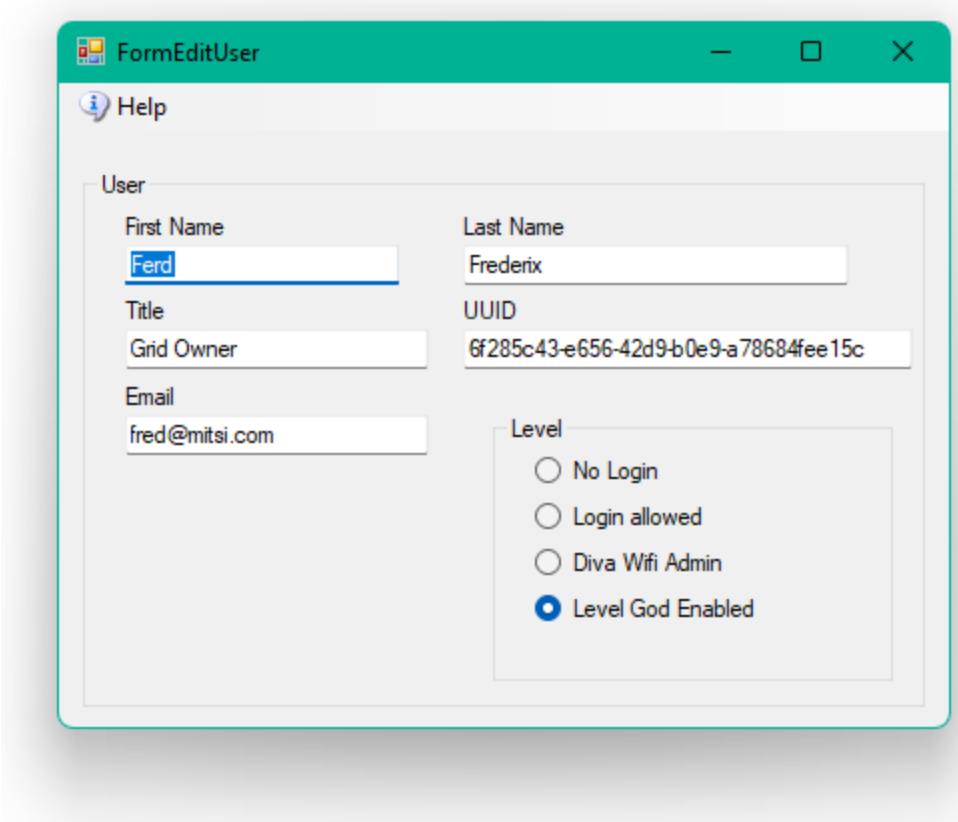
The vast majority of this software is just Opensimulator and MySQL with edits in the INI files to allow auto-configuration by XML and INI editing.

The source code package "How\_to\_Compiler.txt" explains how it is compiled, and what changes are made. You need Visual Studio 2015 or higher, and preferably 2019.

## USERS

This screen lets you edit any user Title, Email, Name, and Login Levels

Change any data, and close the windows and it will prompt you to save the changes.



## Vivox VOICE SETTINGS

Please Note that Vivox is no longer giving out codes.

Add your User ID and Password to this form and enable it. Restart the system and voice should work.

LINKS:

<https://support.vivox>

<http://www.hypergridbusiness.com/2011/12/free-vivox-for-all>

## WHO GOT WHAT MODULE

This Opensimulator Region module lets you send data from scripts to a comma delimited list in your Opensim\bin folder. With just a bit of LSL you can determine who touched, eg "Who Got What" prim, or what door they opened, or what they collided with, or who went where in a sim.

A Demo Form included in DreamGrid will help explain. Navigate in a web browser to <http://127.0.0.1:8004/diva/WhoGotWhat> on your server.

The data the module accepts can be an Avatar Name, the region the item is on, the object (prim) name, the Location, such as <127,128,22> and a Text string. This can be the description or some other text.

The system also requires a password that only you know. Your password is located in Settings->Hypergrid DNS name.

localhost:9004/diva/WhoGotWhat

WhoGotWhat Test Form

Avatar Name:

Region:

Prim Name:

Location:

Data:

Password:  This is the Settings->Hypergrid DNS Password

Send

Pressing send will say “OK your object has been recorded.” And add this data to a Comma Separated (.CSV) file named WhoGotWhat.csv in Opensim\bin. You can open this file with a spreadsheet.

11/16/2020 10:43:04 PM,Fred,Test,Object,<128,128,22>,Prim Description

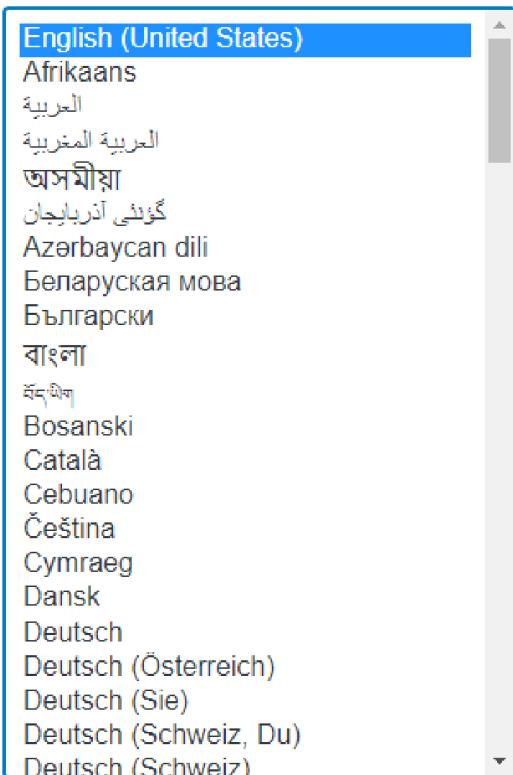
## SETTING UP WORDPRESS WITH DREAMGRID

Download WordPress from <https://wordpress.org/download/>

Extract the zip file into wherever you installed your Grid in the Outworldzfiles\Apache\htdocs\WordPress folder. Do not put a second 'wordpress' folder in there. If you do, just drag and drop the contents of the wordpress folder to the htdocs\ WordPress folder. It should look like this:

Name	Date modified	Type	Size
wp-admin	6/10/2020 4:48 PM	File folder	
wp-content	7/20/2020 8:58 PM	File folder	
wp-includes	6/10/2020 4:48 PM	File folder	
default.htm	6/19/2020 6:22 PM	Chrome HTML Do...	1 KB
index.php	2/6/2020 12:33 AM	PHP File	1 KB
license.txt	2/12/2020 5:54 AM	Text Document	20 KB
readme.html	1/10/2020 8:05 AM	Chrome HTML Do...	8 KB
wp-activate.php	2/6/2020 12:33 AM	PHP File	7 KB
wp-blog-header.php	2/6/2020 12:33 AM	PHP File	1 KB
wp-comments-post.php	6/2/2020 3:26 PM	PHP File	3 KB
wp-config-sample.php	2/6/2020 12:33 AM	PHP File	3 KB
wp-cron.php	2/6/2020 12:33 AM	PHP File	4 KB
wp-links-opml.php	2/6/2020 12:33 AM	PHP File	3 KB
wp-load.php	2/6/2020 12:33 AM	PHP File	4 KB
wp-login.php	2/9/2020 9:50 PM	PHP File	47 KB
wp-mail.php	4/14/2020 6:34 AM	PHP File	9 KB
wp-settings.php	4/9/2020 10:59 PM	PHP File	19 KB
wp-signup.php	2/6/2020 12:33 AM	PHP File	31 KB
wp-trackback.php	2/6/2020 12:33 AM	PHP File	5 KB
xmlrpc.php	2/6/2020 12:33 AM	PHP File	4 KB

1. Go to DreamGrid settings -> Apache. Set the WordPress switch on.
2. Enable the Apache Webserver on port 80 to run as a service.
3. If you have not yet done so, install the necessary Visual C++ runtimes by clicking the button. **\*\*WARNING\*** This may suddenly reboot your machine, so save your work.
4. If it does reboot, make your way back the Settings Apache page and , install the necessary Visual C++ runtimes by clicking the button.
5. Stop the grid, exit the app, and start it again.
6. Using a web browser, navigate to <http://localhost>. You should see a language choice screen:



Continue

After choosing your language, use these settings to set up WordPress and then Click Submit:

Below you should enter your database connection details. If you're not sure about these, contact your host.

Database Name	<input type="text" value="wordpress"/> <a href="#">?</a>	The name of the database you want to use with WordPress.
Username	<input type="text" value="robustuser"/>	Your database username.
Password	<input type="text" value="robustpassword"/>	Your database password.
Database Host	<input type="text" value="localhost"/>	You should be able to get this info from your web host, if localhost doesn't work.
Table Prefix	<input type="text" value="wp_"/>	If you want to run multiple WordPress installations in a single database, change this.

[Submit](#)

You should get this screen:

All right, sparky! You've made it through this part of the installation. WordPress can now communicate with your database. If you are ready, time now to...

[Run the installation](#)

After this WordPress will ask for your name, password and email. Please a very strong password you have never used before! It is extremely importatnt that this be a long, strong password.

You can now navigate to <http://localhost> to view your new web site.

## How to Compile DreamGrid

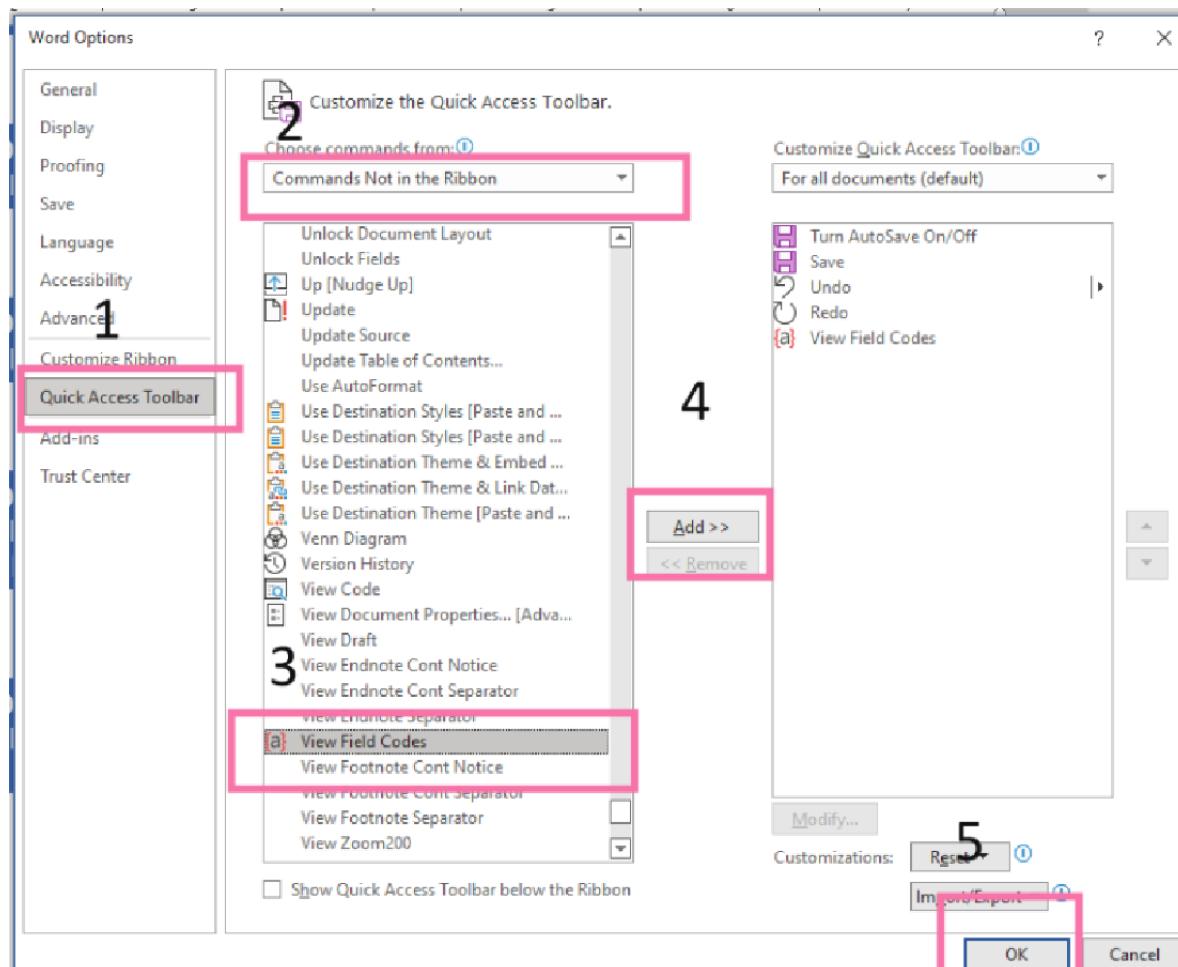
Help files are Word docx's with style sheets and photos in made in View->Outline mode. The source is at <https://github.com/Outworldz/DreamGridManuals>.

The master word doc is "[Dreamgrid Manual.docx](#)" which has an automatic table of contents that makes the main manual with includes from about 70 other word docs. These files get saved as "Web Page (filtered) in the Outworldzfiles\Help folder.

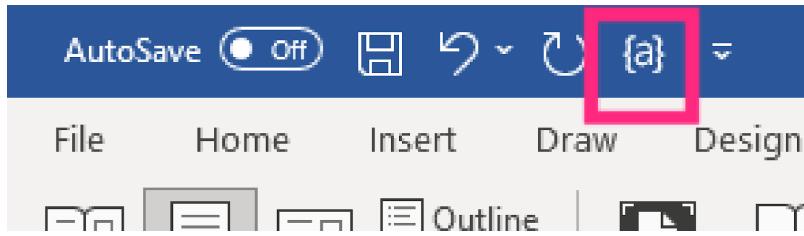
### ADDING A NEW MANUAL

For a NEW manual only, this procedure is necessary. After the manual is finished, saved turn on View Field codes. Go to File->Options at the bottom left of Word.

Now go to the Quick Access Toolbar area of the Word Options dialog box. In the list of Categories, select Commands Not in the Ribbon. Scroll through the long list of commands and select View Field Codes from the list. Click Add.



Enable this by clicking the menu:



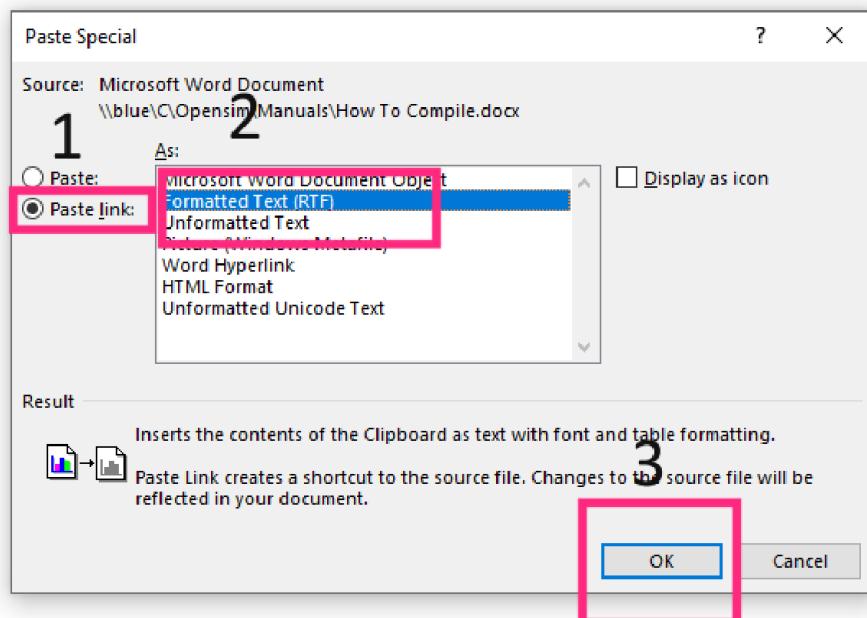
After clicking the {A} you just added, you see this:

```
{ LINK WORD.DOCUMENT.12
\\blue\C\OPENSIM\MANUALS\WHOGOTWHATMODULE.DOCX
OLE_LINK22 \A \R }
```

```
{ LINK WORD.DOCUMENT.12
\\blue\C\OPENSIM\MANUALS\WORDPRESS.DOCX OLE_LINK39 \A \R
}
```

These are all the manuals, in alphabetical order as a link.

For a new manual, highlight all the text in it. Go to the section (alphabetical order) in the DreamGrid Manual.docx. Do not paste it in. Use “ Paste Special”, “Paste Link” “Formated Text”:

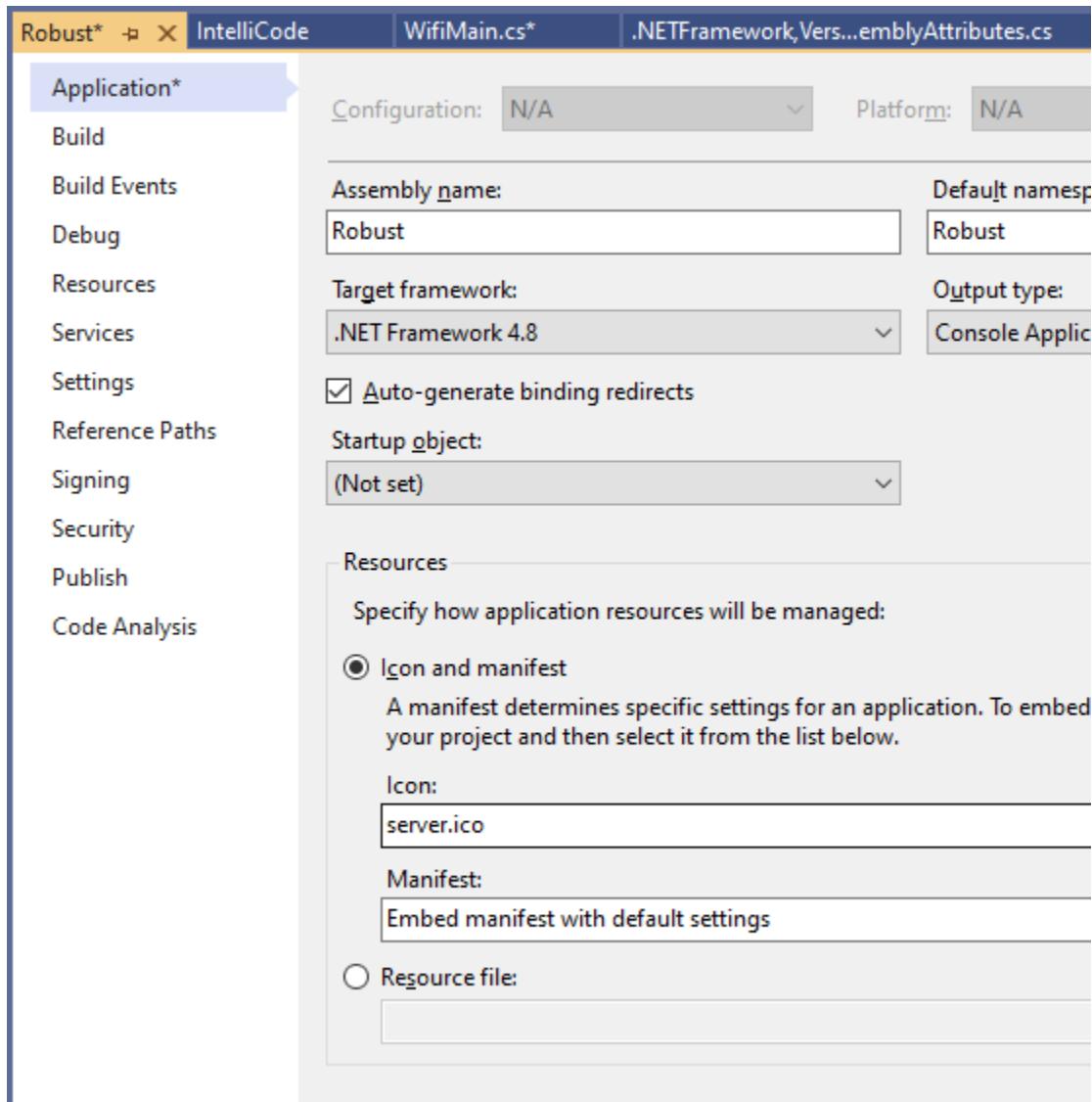


A perl script "[Make\\_zip\\_v3.pl](#)" copies the web pages and adds them to both the main and backup Outworldz.com web sites.

Add the icons to Robust, pCampbot and Opensim Properties:

Robust is server.ico. pCampbot is cube\_yellow.ico, and Opensim is cube\_blue.ico.

You right click the name in the properties window and select "Properties". Then type the name in.



#### jOPENSIM AND OTHER MODULES:

I can't compile eZombies, though. That's an interesting module with attacking zombies

I have not added jOpensim Money yet, or jOpensim 4 yet. This is still V 3.9.

We will need PHP8 for it. Curl has been replaced with a new curl which changes Search/Datasnapshot too.



## LICENSE AGREEMENT:

DreamGrid does not use any ads, spyware, or other bad practices.

Outworldz follows the Microsoft Code of Conduct for Open-Source code.

<https://opensource.microsoft.com/codeofconduct/>

This code of conduct outlines expectations for participation in this open-source community, as well as steps for reporting unacceptable behavior. We are committed to supplying a welcoming and inspiring community for all. People violating this code of conduct may be banned from the community.

## COPYRIGHT

DreamGrid is Copyright 2011 by Outworldz, LLC under the GNU Affero General Public License (AGPL 3.0). The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software. All rights are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. <https://www.gnu.org/licenses/agpl-3.0.txt>

AGPL requires anyone who recodes or improves the DreamGrid application to make their changes Public. This prohibits ALL proprietary changes to the DreamGrid code, including those hidden behind firewalls. All changes to DreamGrid code must be made public and must pass along the AGPL 3.0 license. If you do not like this license, please do not use my DreamGrid code.

Anyone who thinks this means you must release changes to any other code, LSL, or mesh, Avatars, or OARS that runs on it or is executed by it are misinformed.

The intent is to prevent anyone from benefitting exclusively from proprietary or private expansions of this DreamGrid code base.

Source code: <https://github.com/Outworldz/>

Other open-source licenses apply to Opensimulator, and the libraries and other functions included herein. A [list is provided in these folders](#):

[See \Licenses\\_to\\_Content](#)

See \Opensim\ThirdPartyLicenses

See \Opensim\NOTES

## DATA COLLECTION POLICY

Outworldz, LLC does not collect any personally identifiable information. No personal details of your site, such as Opensimulator passwords, usernames or other grid contents are sent to Outworldz, LLC. No Mesh, textures, inventory, or other items are sent to Outworldz, LLC.

## PUBLICITY

If you check the Publish Grid button, the system will send public information about your grid, such as the web address, regions and names of items you or your residents have marked as "Show in Search" to be indexed in the Hyperica.com directory. This information is not shown if you turn your grid off or uncheck the box.

DNS

The Free DYN DNS system stores public IP addresses and your domain name as is necessary to run the DNS system.

Anonymous data - A private, unique random identifier created at startup is stored both at Outworldz, LLC. to protect your chosen name. A small amount of anonymous data is stored which includes whether your software passes diagnostics, a hash of the Disk ID and Mac address to help me deduplicate grids, the revision level of the code, and whether it is on the Hypergrid. This is used for quality control purposes.

The Outworldz web server may also automatically collect and store routine information in Apache server logs. هذا قد يشمل تفاصيل حول كيفية استخدامك لخدمتنا، مثل استعلامات بحث أو عنوان بروتوكول إنترنت، نوع المتصفح، لغة المتصفح، تاريخ ووقت طلبك وURL المعنونة.