

### GameMonkey ScriptMod 1.1

#### What is GameMonkey Script?

GameMonkey is an embedded scripting language intended for use in game and tool applications. GameMonkey is however suitable for use in any project requiring simple scripting support. GameMonkey borrows concepts from Lua ([www.lua.org](http://www.lua.org)), but uses syntax similar to C, making it more accessible to game programmers. GameMonkey also natively supports multithreading and the concept of states.

#### What is GameMonkey ScriptMod?

GameMonkey ScriptMod is a QMM Plugin, which allows Server Admins to define the Server behavior by Script.

#### What is QMM?

Quake3 Multi Mod (short: QMM) is a hook to the Q3 Engine and allows you to extend the Quake3 Engine functions. Check <http://qmm.planetquake.gamespy.com/> for more details about QMM.

Can I use GameMonkeyScriptMod on other Q3 Engines?

Yes, and No. Currently we support only Enemy Territory. But we think about a release for all QMM Supported Games. QMM currently supports Quake 3 Arena, Jedi Knight II: Jedi Outcast, Jedi Knight:

Academy, Return to Castle Wolfenstein, and RtCW: Enemy Territory.

Can I use GameMonkeyScriptMod on my Windows Server?

Yes, and No. The gmScriptMod is written in Platform independent Code. But we haven't compiled a Windows Version yet. Most Gameservers are running Linux, so atm. we don't see the need for a Windows Version.

Where can i get some Informations about GameMonkey?

Here: <http://www.somedude.net/gamemonkey/>

### How do i write a Script Function?

```
global PlayerList={
{0,"0"},
{1,"0"},
{2,"0"},
{3,"0"},
{4,"0"},
{5,"0"},
{6,"0"},
{7,"0"},
{8,"0"},
{9,"0"},
{10,"0"},
{11,"0"},
{12,"0"},
{13,"0"},
{14,"0"},
{15,"0"},
{16,"0"},
{17,"0"},
{18,"0"},
{19,"0"},
};

global GAME_CLIENT_COMMAND= function(int_value, string_value, concat_value)
{
  if(string_value=="gmsm" && concat_value=="FRIENDPASS" ){PlayerList[int_value][1]=1;
  say("Login from Client: "+int_value);
  }
};
```

### gmScriptMod Features

- 100% scriptable Admin Interface
- scriptable Rcon-like Interface
- Interface for Clan Members. (Beside Ref login)
- Interface for Clan Friends. (Beside Ref login)
- Access to your FileSystem by .gm Script Functions
- Works with ALL Enemy Territory Mods (etmain/etpro/etbub/shrubmod/tce/etc.)

- Easy to modify. No C/C++ knowledge necessary.
- Change your ServerMod Scriptfile without Server restart.
- Easy Script Syntax. Not as complicated as LUA.
- A lot of Script Examples.
- Fast. GameMonkey is one of the fastest Script Languages.
- Define your own "/" commands. Example: "/ban ID", "/kick ID", "drop ID"
- Create an individual Gameserver Mod. Personalize your Server.
- Exchange your Script Files with other Serveradmins.
- Client to Client Private Chat
- IRC Like Channel Chat

### What is a minimal NeelixScript.gm Script?

This is a valid mini NeelixScript.gm Script

```
global GAME_CLIENT_COMMAND= function(int_value, string_value, concat_value)
{

};
global GAME_CLIENT_CONNECT = function(clientNum, firstTime)
{
};

global GAME_CONSOLE_COMMAND = function(command, concat_value){
};
```

---

[gmScriptMod-1.0.zip](#)

[gmScriptMod-1.1.zip](#)

[GMSM 1.1 src \(linux\).rar](#)

[qmm.ini](#)

[GameMonkeyScriptReference.pdf](#)

### GameMonkey ScriptMod Command Reference

#### What kind of functions come with GMScriptMod?

##### ServerCommands:

rslap

example: rslap 2 700

that will slap the player with clientnumber 2, 700 up, and his sideward, and forward motion will be randomly increased.

slap

example: slap 2 700

that will slap the player with clientnumber 2, 700 up

### ClientCommands:

hjump

example: /hjump

This will push the player into the sky, as a 'high jump'. The height is defined by a scriptfunction called 'GET\_VELOCITY\_Z\_IMPACT'

So you can change the ammount of units the players goes up in the air.

Why are some script functions in upper case?

The upper case script functions are all called by *GMSM*.

What gmScriptMod functions can i use?

Here is a short list with (nearly) all available Script functions. We offer you some C++ written functions, which you can use inside your script.

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sscanf

Brief: Allows you to have a sscanf like function

Param: char string

Param: char searchPattern

Param: int varType

Return: char scannedVar

search

Brief: Allows you to search a string in a string

Param: char searchIn

Param: char searchString

Return: char match

strip

Brief: removes the color code from a player/string

Param: char string

Return: char stripped\_string

Exec

Brief: Exec will execute a system command

Param: string params will be concatenated together with a single space to form the final system command string

Return: integer value returned from system exec call, -1 on error

say

Brief: say will send a console say message

Param: char string

Return: null

echo

Brief: echo will echo a string to the serverconsole output

Param: char string

Return: null

set

Brief: set param will be concatenated and piped to the gameserver using EXEC\_APPEND

Param: string

Return: null

cp

Brief: this function will send string as a Center Print message to 'clientnum'

Param: int clientNum

Param: char string

Return: null

cpm

Brief: this function will send string to clientnum in CPM mode

Param: int clientNum

Param: char string

Return: null

cprint

Brief: this function will send string to clientnum in print mode(console)

Param: int clientNum

Param: char string

Return: null

GetValueForKey

Brief: this function will get a certain value from the userinfo string, eg 'GetValueForKey(UserInfoString,"ip")'

Param: char userinfostring

Param: char value

Return: char value

GetUserInfo

Brief: this function will return a userinfostring

Param: char string

Return: char userinfostring

getStringCvar

Brief: this function will return the string of the cvar 'var\_name'

Param: char string

Return: char cvar\_value

getIntCvar

Brief: this function will return the integer of the cvar 'var\_name'

Param: char string

Return: integer cvar\_value

strlen

Brief: this function will return the length of the string

Param: char string

Return: int length

logWrite

Brief: this function will write 'string' in the game logfile

Param: char string

Return: null

playsound

Brief: this function will play the sound 'string' using the clientcommand mu\_play

Param: char pathToSound

Return: null

include

Brief: This function will include a file with 'string' as the filename

Param: char fileName

Return: null

getConfigString

Brief: This function gets the config string of a client (CS\_PLAYERS + clientNum)

Param: int clientNum

Return: null

registerCvar

Brief: This function registers a server Cvar

Param: char cvarName

Return: null

setCvar

Brief: This function sets a server Cvar

Param: char cvarName

Param: char Value

Return: null

atoi

Brief: This function converts a string to an integer

Param: char string

Return: integer

gm

Brief: functions in the gm lib are all global scope

debug

Brief: debug will cause a the debugger to break at this point while running.

gmVersion

Brief: gmVersion will return the gmMachine version string. version string is major type . minor type as a string and was added at version 1.1

Return: string

typeId

Brief: typeId will return the type id of the passed var

Param: var

Return: integer type

typeName

Brief: typeName will return the type name of the passed var

Param: var

Return: string

typeRegisterOperator

Brief: typeRegisterOperator will register an operator for a type

Param: int typeid

Param: string operator name is one of "getdot", "setdot", "getind", "setind", "add", "sub", "mul", "div", "mod", "inc", "dec", "bitor", "bitxor", "bitand", "shiftright", "shiftright", "bitinv", "lt", "gt", "lte", "gte", "eq", "neq", "neg", "pos", "not"

Param: function

Return: 1 on success, otherwise 0

typeRegisterVariable

Brief: typeRegisterVariable will register a variable with a type such that (type).varname will return the variable

Param: int typeid

Param: string var name

Param: var

Return: 1 on success, otherwise 0

sysCollectGarbage

Brief: sysCollectGarbage will run the garbage collector iff the current mem used is over the desired mem used

Param: forceFullCollect (false) Optionally perform full garbage collection immediately if garbage collection is not disabled.

Return: 1 if the gc was run, 0 otherwise

sysGetMemoryUsage

Brief: sysGetMemoryUsage will return the current memory used in bytes

Return: int memory usage

sysSetDesiredMemoryUsageHard

Brief: sysSetDesiredMemoryUsageHard will set the desired memory usage in bytes. when this is exceeded the garbage collector will be run.

Param: int desired mem usage in bytes

sysSetDesiredMemoryUsageSoft

Brief: sysSetDesiredMemoryUsageSoft will set the desired memory usage in bytes. when this is exceeded the garbage collector will be run.

Param: int desired mem usage in bytes

sysGetDesiredMemoryUsageHard

Brief: sysGetDesiredMemoryUsageHard will get the desired memory usage in bytes. Note that this value is used to start garbage collection, it is not a strict limit.

Return: int Desired memory usage in bytes.

sysGetDesiredMemoryUsageSoft

Brief: sysGetDesiredMemoryUsageSoft will get the desired memory usage in bytes. Note that this value is used to start garbage collection, it is not a strict limit.

Return: int Desired memory usage in bytes.

sysSetDesiredMemoryUsageAuto

Brief: sysSetDesiredMemoryUsageAuto will enable auto adjustment of the memory limit(s) for subsequent garbage collections.

Param: int enable or disable flag

sysGetStatsGCNumFullCollects

Brief: sysGetStatsGCNumFullCollects Return the number of times full garbage collection has occurred.

Return: int Number of times full collect has occurred.



`sysGetStatsGCNumIncCollects`

Brief: `sysGetStatsGCNumIncCollects` Return the number of times incremental garbage collection has occurred. This number may increase in twos as the *GC* has multiple phases which appear as restarts.

Return: int Number of times incremental collect has occurred.

`sysGetStatsGCNumWarnings`

Brief: `sysGetStatsGCNumWarnings` Return the number of warnings because the *GC* or VM thought the *GC* was poorly configured. If this number is large and growing rapidly, the *GC* soft and hard limits need to be configured better. Do not be concerned if this number grows slowly.

Return: int Number of warnings garbage collect has generated.

`sysIsGCRunning`

Brief: Returns true if *GC* is running a cycle.

`sysTime`

Brief: `sysTime` will return the machine time in milli seconds

Return: int

`doString`

Brief: `doString` will execute the passed gm script

Param: string script

Param: int optional (1) set as true and the string will execute before returning to this thread

Param: ref optional (null) set 'this'

Return: int thread id of thread created for string execution

`globals`

Brief: `globals` will return the globals table

Return: table containing all global variables

`threadTime`

Brief: `threadTime` will return the thread execution time in milliseconds

Return: int

`threadId`

Brief: `threadId` will return the thread id of the current executing script

Return: int

`threadAllIds`

Brief: `threadIds` returns a table of thread Ids

Return: table of thread Ids

`threadKill`

Brief: `threadKill` will kill the thread with the given id

Param: int `threadId` optional (0) will kill this thread

`threadKillAll`

Brief: `threadKillAll` will kill all the threads except the current one

Param: bool optional (false) will kill this thread if true

`thread`

Brief: `thread` will start a new thread

Param: function entry point of the thread

Param: ... parameters to pass to the entry function

Return: int `threadid`

`yield`

Brief: `yield` will hand execution control to the next thread

`exit`

Brief: `exit` will kill this thread

`assert`

Brief: `assert`

Param: int expression if true, will do nothing, if false, will cause an exception

sleep

Brief: sleep will sleep this thread for the given number of seconds

Param: int\float seconds

signal

Brief: signal will signal the given variable, this will unblock dest threads that are blocked on the same variable.

Param: var

Param: int destThreadId optional (0) 0 will signal all threads

block

Brief: block will block on all passed vars, execution will halt until another thread signals one of the block variables. Will yield on null and return null.

Param: ... vars

Return: the unblocking var

stateSet

Brief: stateSet will collapse the stack to nothing, and push the passed functions.

Param: function new state function to execute

Param: ... params for new state function

stateSetOnThread

Brief: stateSetOnThread will collapse the stack of the given thread id to nothing, and push the passed functions.

Param: int thread id

Param: function new state function to execute

Param: ... params for new state function

stateGet

Brief: stateGet will return the function on the bottom of this threads execution stack iff it was pushed using stateSet

Param: a\_threadId Optional Id of thread to get state on. \reutrn function \ null

stateGetLast

Brief: stateGetLast will return the last state function of this thread

Param: a\_threadId Optional Id of thread to get last state on. \reutrn function \ null

stateSetExitFunction

Brief: stateSetExitFunction will set an exit function for this state, that will be called with no parameters if this thread switches state

Param: function

tableCount

Brief: tableCount will return the number of elements in a table object

Param: table

Return: int

tableDuplicate

Brief: tableDuplicate will duplicate the passed table object

Param: table

Return: table

print

Brief: print will print the given vars to the print handler. passed strings are concatenated together with a seperating space.

Param: ... strings

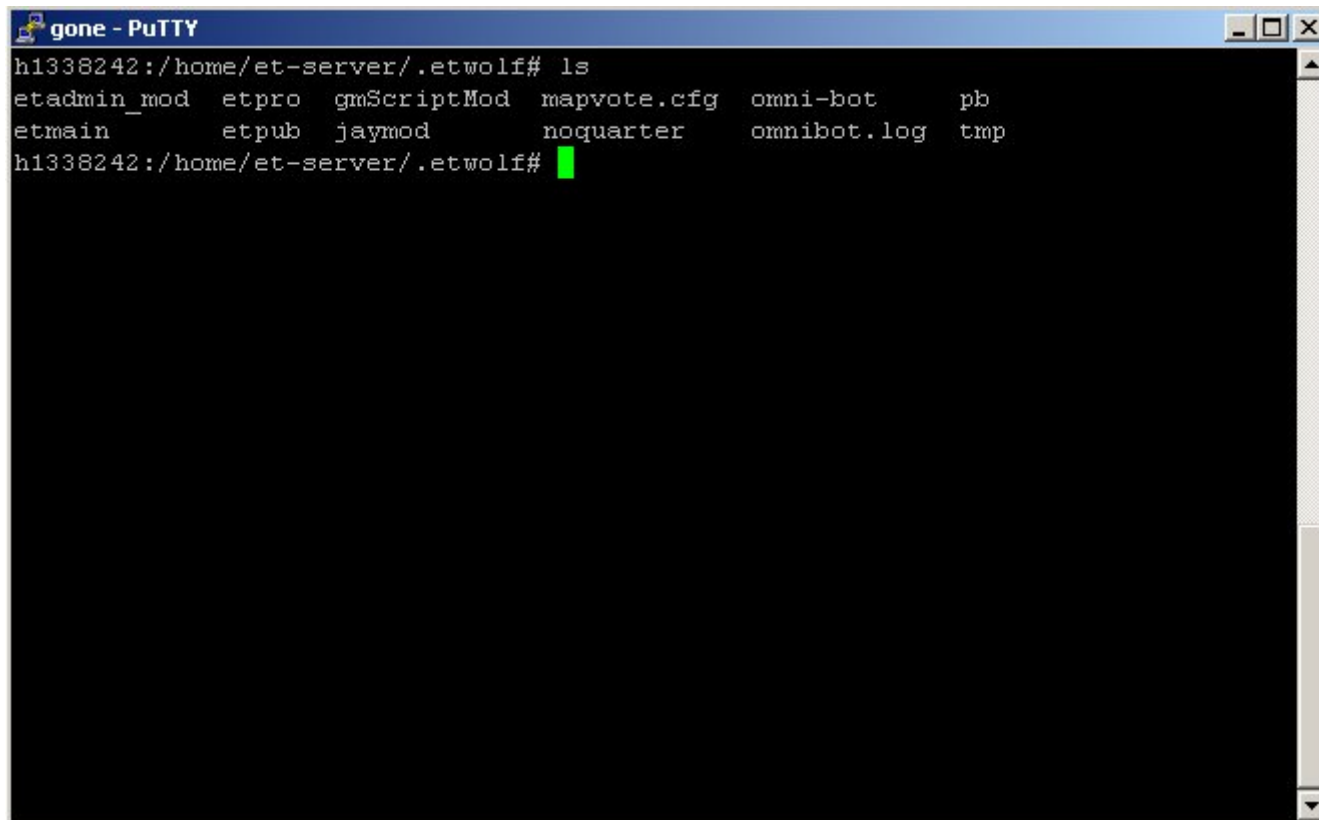
format

Brief: format (like sprintf, but returns a string) %d, %s, %f, %c, %b, %x, %e

Param: string

## Step by Step Help

1. Go to your .etwolf folder and create a new folder called: "gmScriptMod"  
!ATTENTION! The Folder Name is case sensitiv!



```
gone - PuTTY
h1338242:/home/et-server/.etwolf# ls
etadmin_mod  etpro  gmScriptMod  mapvote.cfg  omni-bot  pb
etmain       etpub  jaymod       noquarter    omnibot.log  tmp
h1338242:/home/et-server/.etwolf#
```

2. Save in the gmScriptMod folder the .gm files.

```
gaminggone.net - PuTTY
h1338242:/home/et-server/.etwolf# cd gmScriptMod/
h1338242:/home/et-server/.etwolf/gmScriptMod# ls
Neelix_client_cmds.gm      Neelix_help.gm      Neelix_sounds.gm
Neelix_client_say_commands.gm  Neelix_login.gm    Neelix_tables.gm
Neelix_client_slash_commands.gm NeelixScript.gm    Neelix_utils.gm
h1338242:/home/et-server/.etwolf/gmScriptMod# █
```

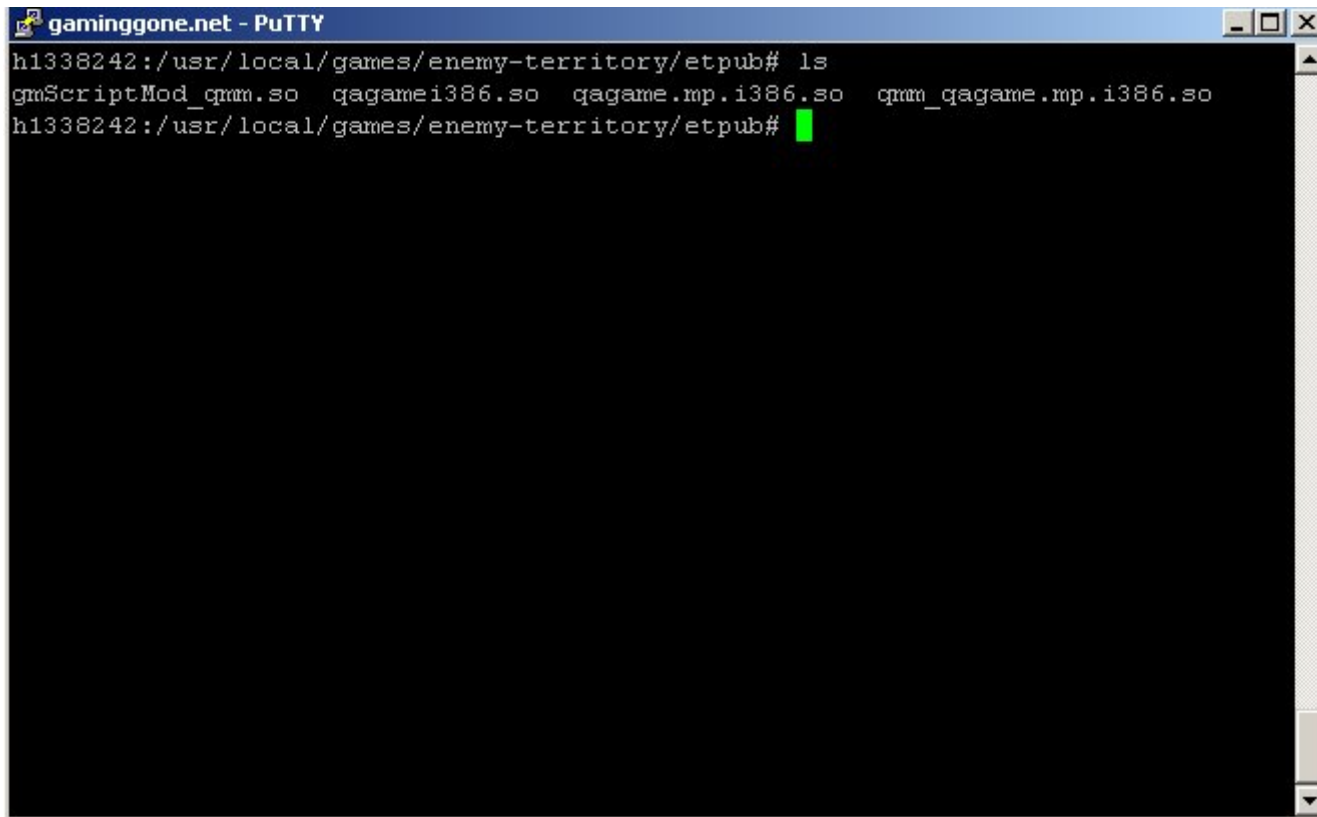
3. Change the Default Passwords in the NeelixScript.gm File.

4. Install QMM

4. a) Rename the existing qagame.mp.i386.so file to qmm\_qagame.mp.i386.so.

4. b) Place qmm.so from the .tar.gz you downloaded into the mod directory and rename it to qagame.mp.i386.so.

Your Folder should now look like this:



```
gaminggone.net - PuTTY
h1338242:/usr/local/games/enemy-territory/etpub# ls
gmScriptMod_qmm.so  qagamei386.so  qagame.mp.i386.so  qmm_qagame.mp.i386.so
h1338242:/usr/local/games/enemy-territory/etpub#
```

4. c) Place pdb.so and qmm.ini from the .zip you downloaded into the root game directory (where the server binary is located).

```
gaminggone.net - PuTTY
h1338242:/usr/local/games/enemy-territory# ls
a.out      etmain      files        pb
CHANGES   etpro       jaymod       pdb.so
Docs       etpub       noquarter    qmm.ini
et         et.x86      omni-bot     tcetest
etded      ET.xpm      openurl.sh   tcetest_048
etded.x86  EULA_Wolfenstein_Energy_Territory.txt otc6a
h1338242:/usr/local/games/enemy-territory#
```

4. d) Configure QMM (see Configuration File (qmm.ini) regarding a setting that must be set for Enemy Territory).

```
#this is an example for tcetest. here we load two qmm plugins.
"tcetest" {
    #Specifies file name of mod to load
    # default(Q3A) = "\vm/qagame.qvm"
    # default(JK2) = "\vm/jk2mpgame.qvm"
    # default(other) = "qmm_<name>.dll"/"qmm_<name>.dll"
    "mod" "qmm_qagame.mp.i386.so";

    #Specifies size of the QVM stack in megabytes (1048576 bytes)
    # default = "1"
    # only used with qvm mods
    #"qvmstacksize" '1';

    #Specifies name of config file to execute after load
    # default = "qmmaddons/qmm/qmmexec.cfg"
    #"execcfg" "qmmaddons/qmm/qmmexec.cfg";
```

```

#List of plugins to load
"plugins" (
    "qmScriptMod_qmm.so";
    "dutchfix_qmm.so";
    #"qmmaddons/plugin2/dlls/plugin2.dll";
)
)

#replace etpub with etpro, jaymod, noquater, etc.
"etpub" {
#Specifies file name of mod to load
# default(Q3A) = "vm/qagame.qvm"
# default(JK2) = "vm/jk2mpgame.qvm"
# default(other) = "qmm_<name>.dll"/"qmm_<name>.dll"
"mod" "qmm_qagame.mp.i386.so";
#Specifies size of the QVM stack in megabytes (1048576 bytes)
# default = "1"
# only used with qvm mods
#"qvmstacksize" '1';
#Specifies name of config file to execute after load
# default = "qmmaddons/qmm/qmmexec.cfg"
#"execcfg" "qmmaddons/qmm/qmmexec.cfg";
#List of plugins to load
"plugins" (
    "qmScriptMod_qmm.so";
    #"qmmaddons/plugin2/dlls/plugin2.dll";
)
}

```

63, 1

85%

Source

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