1 Table of Contents

1 Table of Contents ...................................................................................................................... 2
2 Introduction .............................................................................................................................. 5
3 Conan Exiles survival guide ...................................................................................................... 5
  3.1 Starting off ............................................................................................................................ 5
  3.2 The HUD .............................................................................................................................. 6
  3.3 Inventory and character screen ............................................................................................ 7
  3.4 Stats and leveling up ............................................................................................................. 8
  3.5 Feats ..................................................................................................................................... 9
  3.6 Harvesting ............................................................................................................................ 9
  3.7 Crafting ................................................................................................................................ 10
  3.8 Building ................................................................................................................................ 11
  3.9 Capturing and breaking thralls ............................................................................................ 12
  3.10 Religion .............................................................................................................................. 13
  3.11 The Purge ........................................................................................................................... 15
  3.12 Lore ..................................................................................................................................... 16
  3.13 Get in touch ........................................................................................................................ 17
4 Isle of Siptah expansion ............................................................................................................. 17
  4.1 The Vaults ............................................................................................................................ 18
  4.2 The Maelstrom ...................................................................................................................... 18
  4.3 Surges Of Sorcery ................................................................................................................ 18
5 Setting Up a Server .................................................................................................................. 19
  5.1 Dedicated server system requirements .............................................................................. 19
  5.2 How to setup a private server ............................................................................................. 19
  5.3 Map selection and save files ............................................................................................... 21
6 Server Settings .......................................................................................................................... 21
  6.1 Exposed Server Settings ...................................................................................................... 21
  6.1.1 Difficulty Presets ............................................................................................................. 21
  6.1.2 General ............................................................................................................................ 22
  6.1.3 Progression ....................................................................................................................... 23
  6.1.4 Day/Night Cycle ............................................................................................................... 23
  6.1.5 Survival ............................................................................................................................ 23
  6.1.6 Combat ............................................................................................................................. 24

Version 1.6
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.8</td>
<td>Step Three - Make all the new RPCs you need</td>
</tr>
<tr>
<td>9.9</td>
<td>Conclusion Components</td>
</tr>
<tr>
<td>10.1</td>
<td>Making a Map</td>
</tr>
<tr>
<td>10.2</td>
<td>The New Map (UWorld)</td>
</tr>
<tr>
<td>10.2.1</td>
<td>Building blockers</td>
</tr>
<tr>
<td>10.4</td>
<td>Climbing blockers</td>
</tr>
<tr>
<td>10.5</td>
<td>Procedural foliage (Experimental feature in unreal 4.15)</td>
</tr>
<tr>
<td>10.6</td>
<td>Water</td>
</tr>
<tr>
<td>10.6.1</td>
<td>To be able to drink water</td>
</tr>
<tr>
<td>10.6.2</td>
<td>Ripples</td>
</tr>
<tr>
<td>10.6.3</td>
<td>Pathfinding</td>
</tr>
<tr>
<td>10.6.4</td>
<td>Swimming</td>
</tr>
<tr>
<td>10.6.5</td>
<td>Good practices</td>
</tr>
<tr>
<td>10.7</td>
<td>Optimization</td>
</tr>
<tr>
<td>10.7.1</td>
<td>Instancing:</td>
</tr>
<tr>
<td>10.7.2</td>
<td>Landscape</td>
</tr>
<tr>
<td>10.8</td>
<td>Materials</td>
</tr>
<tr>
<td>10.9</td>
<td>MapDataTable (Content/Maps/AlwaysCook/MapDataTable)</td>
</tr>
<tr>
<td>10.10</td>
<td>Map Coordinates and Spans</td>
</tr>
<tr>
<td>10.11</td>
<td>Dungeon Locations Table</td>
</tr>
<tr>
<td>10.12</td>
<td>Dungeon Locations Table</td>
</tr>
<tr>
<td>10.13</td>
<td>Purge Config Table</td>
</tr>
<tr>
<td>10.14</td>
<td>Hints Table</td>
</tr>
<tr>
<td>10.15</td>
<td>Character Creation Class</td>
</tr>
<tr>
<td>10.16</td>
<td>Spawn Locations (MapSpawnLocations data table)</td>
</tr>
<tr>
<td>10.17</td>
<td>Character Preview &amp; Dye Window</td>
</tr>
<tr>
<td>10.18</td>
<td>Exiles Journey (DT_ExilesJourney)</td>
</tr>
<tr>
<td>10.19</td>
<td>Temperature</td>
</tr>
<tr>
<td>11</td>
<td>Technical manual Changelog</td>
</tr>
</tbody>
</table>

Version 1.6
2  Introduction

Hello and welcome to Conan Exiles!

This technical manual contains a Survival guide that describes the basic concepts, how to set up and administrate your own dedicated server, and how to use mods and the Conan DevKit. In the game, you will find information in the settings about controls configuration to get you started.

3  Conan Exiles survival guide

Welcome to the Exiled Lands. In this harsh and unforgiving landscape, only the strongest and fiercest will survive the challenges that stand before them. Before you get started on your barbarian adventure we’ve gathered some basic tips you should learn to survive, build and dominate in Conan Exiles.

Your cross awaits.

3.1  Starting off

From the main menu, you can choose to play online or jump into a single player/co-op session. Playing online pits you against other exiles in a struggle for survival on servers run by Funcom’s partnered server provider, or on private servers run by members of the community. In single player, it’s just you against the dangers of the Exiled Lands.

In a single player game, you start off by choosing a difficulty level. This will set things like gathering rate, how much experience you gain and what you lose upon death. You can also set custom settings if you want. When playing single player, you will also have access to the admin panel, which allows you to activate certain cheats and spawn in weapons and items. If you’re playing the single-player mode you have the option of inviting friends to join you through steam.
3.2 The HUD

The upper left-hand corner is where you’ll find the information you need about the current state of your character. The red bar is your Health meter. Below that is your Stamina bar. Then, going from left to right, are icons representing your current level of Water, Food, Inventory Weight and Temperature. Just above your Health meter is your Experience Points Bar.
On-screen prompts will display any status effect currently affecting you. These can include Poison, Corruption, Thirst and Starvation.

3.3 Inventory and character screen
The Menu button opens your inventory and character screen. On the left side is your inventory, with everything you’ve gathered in the game. Here you can move items to the quick slot radial menu.

The middle window is your character screen, where you find your character’s attributes and currently equipped clothing. Above your character’s head is your current level of Health, Stamina, Water, Food, Armor rating and Armor Weight.

To the right is the crafting window. Here you use the resources you’ve gathered to create tools, clothes, weapons, building pieces and other items. Click on any crafting recipe you have learned to see what resources you need to create what you’ve selected. If you have enough just hit the “Craft” button and the rest will take care of itself. Certain items, like Iron Swords, require a crafting station to make.

3.4 Stats and leveling up

As you level up you gain Attribute Points you can use to improve your character in various ways. The SAVAGES attributes do different things based on where you allocate your points: Strength determines your melee damage. Agility has an effect on armor and our ability to move. Vitality determines the size of your health pool. Accuracy determines the damage you do with ranged weapons. Grit determines the size of your stamina pool. Encumbrance is a measure of how much you can carry. Survival is a measure of your ability to live in harsh conditions. It affects how you metabolize food and react to your surroundings.
3.5 Feats
When you level up you also gain Knowledge Points. These are used to unlock feats that give you access to new crafting recipes. Each exile has a limited amount of feats they can unlock and some have prerequisites that need to be fulfilled before they’re available. The first tab in the Feats menu is a collection of some of the most common feats, so look through the other tabs to find more.

Your spent Attribute Points and Knowledge Points are permanent until you’re able to craft a specific potion that lets you reset your spent points.

3.6 Harvesting
Harvesting resources is an essential part of the crafting and survival aspects of Conan Exiles. Resources let you craft and upgrade tools, weapons, building pieces and armor. You can harvest resources by interacting with special nodes or by picking them up off the ground.

In the beginning you gather sticks and stones, but you will eventually unlock new tools that allows you to harvest more resources at a faster rate. Some tools are specialized and can give you different things from the same resource. A Cleaver will give you more meat from an animal corpse, whereas a Skinning Knife is excellent for collecting hide.
3.7 Crafting
Most of the crafting in the game can be done from the crafting screen, but some items need a special crafting station or machine to be made. Crafting stations require you to manually select and craft each individual item. If a recipe requires a crafting station it will be listed in the Feats menu. These have their own inventories where the crafting is done. Machines need fuel to work, but will continuously make new items and ingredients if there’s fuel to burn.
3.8 Building

Surviving other players and the creatures and elements of the Exiled Lands is a core part of Conan Exiles. Building a shelter is vital for survival and it’s important to build something fast. Rudimentary building pieces will be available quickly and can be crafted from the crafting screen as long as you have the prerequisite materials.

Start by placing out some foundations where you want to build. You’ll be able to build practically anywhere. Other building pieces will automatically snap to the foundations when you select them from your radial menu. When building it’s important to consider what’s surrounding you: Are there any special resource nodes nearby? Are you close to food or water? How you’re going to defend yourself in said spot is also something to take into consideration.
As you grow stronger and progress through the game you’ll unlock building pieces of higher tiers. These can be used to upgrade your base to further defend yourself.

3.9 Capturing and breaking thralls
Human NPCs in the Exiled Lands can be captured and brought back to your base to be broken on the Wheel of Pain. They then become your thralls. Thralls can be set to work at your crafting stations to unlock new recipes or speed up crafting. They can stand guard and protect you from enemies as archers or fighters. Thralls have their own inventory and need to be equipped with weapons and armor to be effective warriors.
To break enemy NPCs you need three things: Fiber bindings, a truncheon and a Wheel of Pain. These can all be unlocked with the Thrall Taker feat at level 10. The truncheon will knock someone out after a few hits, leaving them ready to be tied up using the fiber bindings. Once they’re knocked out and tied up you can drag them back to your Wheel of Pain and use it to convert them into thralls. The Wheel of Pain uses food as fuel and certain foods are more effective at breaking NPCs than others.

### 3.10 Religion
Conan’s world is balanced on the edge between barbarism and civilization, but it’s also a world where the gods themselves sometimes interfere in the lives of mortals. During character creation you can choose a god to worship, with six available at launch: Crom, Set, Yog, Mitra, Ymir and Derketo. Gods give special crafting items and bonuses to those who worship them. Crom is different than the others. In-fiction, Crom does nothing for those who worship him, and calling upon him will only lead to misfortune. In the game he’s essentially the agnostic option, for players who don’t want to engage with the religion system. Crom requires nothing, he gives nothing and does nothing.

Worship happens through an altar dedicated to your god. These will be unlocked when choosing your god during character creation. Special resources harvested from NPCs and other players can be used to craft items at the altar, or sacrificed to gain favor from your chosen god. Favor can be used to upgrade an altar to the next tier, which in turn unlocks new crafting opportunities.
Avatars are the ultimate expression of your religious fervor in the game. These are physical manifestations of your god that can be summoned to smite your enemies. To summon an avatar you’ll need a tier 3 altar and an arch priest thrall. The summoning spell is an item that you then can craft at your altar and take with you into the Exiled Lands. Crafting this spell will destroy both your religious thrall and your altar. Once the crafting process is done you have 48 hours to use the spell before it decays and is destroyed.
While avatars are powerful they are not completely invincible. A special defensive dome can be erected around a tier 3 altar that will instantly destroy any avatar that touches it. Doing damage to an avatar will eventually remove it from the physical realm. In addition to protecting you from avatars the shield dome will also protect you from enemy projectiles, but keep in mind that it’s not permanent. It will disappear after 36 hours.

3.11 The Purge
As you and your clan kill other players, build huge structures, gather resources and are active in the game a meter will start filling up at the bottom of the inventory screen. Once this meter hits a certain threshold you may be targeted by a Purge. During the Purge monsters, animals, humans and others, depending on where you've built, will appear and attack. Once a Purge has been initiated the only way to stop it is to drive them back.

On official servers, Purges will only trigger during “Purge time” which is a subset of prime time. “Purge time” is between 6 PM and 10 PM local time, all days. Admins of private servers will be able to adjust this time either through server setting GUI or modifying the serversettings.ini files.
In general purges become more difficult the further north your base is on the map. Higher difficulty purges will contain special bosses with unique loot, or special crafter NPCs that have unique recipes on them. You will need a combination of smart base design, thrall defenders, higher tier buildings and good teamwork to withstand the most difficult purges.

If you find the purge to be too easy or difficult, you can change the difficulty as well as many other parameters in the options-menu.

3.12 Lore
With a fiction as rich and interesting as Robert E. Howard's Conan universe we can't shy away from incorporating storytelling into the game. This won't be just an empty sandbox. Scattered around the world you will find items that provide information about the events that have shaped the world around you. We recommend you take the time to really explore the world and read item descriptions in order to find as much information about the universe as possible.
NPCs found throughout the game will offer up information about the Exiled Lands and help you gain some insight into life as an exile. You will also discover clues about the ancient civilization that once inhabited this place as you play and explore. Their magic still resides in many of their now abandoned homes. What appears to be instructions for their subjects can be found half buried in the sand dunes. Explore far and wide to see ghosts of the ancient past and glean information from their ways.

3.13 Get in touch
For more information, visit us at www.conanexiles.com. You can also get in touch with us on Twitter, Facebook and Reddit.

4 Isle of Siptah expansion
Isle of Siptah is a massive expansion adding a vast new Island to explore, huge and vile new creatures to slay, new building sets and a whole new gameplay cycle. Fight the elder races in new underground dungeons. Defeat demonic monstrosities that spawn from a storm of pure chaos. Dominate the surge to secure the island’s only supply of thralls.

Unlocking the secrets of the vaults, the maelstrom and the surge will be the key to the most valuable resource of all. Mastering these new features will be the key to getting thralls on the Isle of Siptah.
4.1 The Vaults
Uncover long-forgotten vaults holding the remnants of elder races from a distant past. Discover hidden halls, solve ancient puzzles, and slay the fiends and demons within. Loot valuable treasures and harness the power of the sigils of the elder races to help you and your helpers fight the Storm monsters. The mysterious metal Eladrium can also be found in the Vaults and one of its end uses is to build altars that interact with the Surge. A delving bench can also be built to research other uses of the Eldarium resource.

4.2 The Maelstrom
A massive storm swirls around the dark tower at the center of the island. Powered by sinister magic, it spawns horrifying monsters from the outer void, attacking anyone who dares to venture or build within. Defeat these horrors to get your hands on a brand new and important resource – Elder Essences. Buildings built within the storms inner circle will attract more powerful creatures that will try and purge them from the Island, the bigger the building the harder the purge.

4.3 Surges Of Sorcery
Powerful surges of forbidden magic, granted by the elder god of Nyarlathotep, shoot forth from the Tower of Siptah. Humans and creatures appear in their wake, mysteriously teleported from the outside world. Move quick to capture them or be left in the dust as other players build their army.
The surges happen after the storm dissipates and can be controlled by building a focus altar at a layshrine to direct its focus location and power. At the surrounding platforms eldarium can be used to capture any suitable thralls that have appeared.

5  Setting Up a Server

5.1  Dedicated server system requirements

<table>
<thead>
<tr>
<th></th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Players</strong></td>
<td>10-player</td>
<td>30-player</td>
<td>40-player</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Win 7/8.1/10 64 bit</td>
<td>Win 7/8.1/10 64 bit</td>
<td>Win 7/8.1/10 64 bit</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Intel Core2Duo 6850</td>
<td>Intel Core i5 2400</td>
<td>Intel Core i7 6700</td>
</tr>
<tr>
<td><strong>CPU(GHz)</strong></td>
<td>3.0 GHz</td>
<td>3.1/3.4 GHz (Turbo)</td>
<td>3.4/4.0 GHz (Turbo)</td>
</tr>
<tr>
<td><strong>System RAM</strong></td>
<td>8GB</td>
<td>8GB</td>
<td>12GB</td>
</tr>
<tr>
<td><strong>Diskspace</strong></td>
<td>105GB</td>
<td>105GB</td>
<td>105GB</td>
</tr>
</tbody>
</table>

5.2  How to setup a private server

1.  Get SteamCMD
    
    [https://steamcdn-a.akamaihd.net/client/installer/steamcmd.zip](https://steamcdn-a.akamaihd.net/client/installer/steamcmd.zip)

2.  Extract the contents of the steamcmd.zip to a folder of your choosing.

3.  Open a command prompt and navigate to the folder you chose.

4.  Create a different folder to install the server into. (for example C:\Exiles)

5.  To get the server, run this command:
    
    `steamcmd +login anonymous +force_install_dir C:\Exiles +app_update 443030 +quit`

    *(On the first run, and occasionally, SteamCMD will patch itself before running)*

6.  Running the server:
    
    Please make sure you do not have a steam client running. If you do, you will see some error message boxes regarding steam DLLs (which you can ignore).
    
    From C:\Exiles, run: ConanSandboxServer.exe

    By default it will listen on *UDP ports 27015 and 7777*. You might need to add an exception in your firewall to get the server to show up in the Steam server browser.

Version 1.6
You can then use the following command line parameters, for example:
ConanSandboxServer.exe -log -MaxPlayers=16

There is also a bat file that can be used to start the server where parameters can be added in C:\Exiles.
StartServer.bat

Some useful server parameters:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-log</td>
<td></td>
</tr>
<tr>
<td>MaxPlayers=</td>
<td>1-40 players</td>
</tr>
<tr>
<td>MULTIPAD=</td>
<td>aaa.bbb.ccc.dde (select network interface by ip)</td>
</tr>
<tr>
<td>QueryPort=</td>
<td>27015 (steam queryport)</td>
</tr>
</tbody>
</table>

Settings set in ConanSandbox\Saved\Config\WindowsServer\Engine.ini
some settings need to be specified in the Engine.ini file listed above, such as:

```ini
[OnlineSubsystemSteam]
ServerName=YOUR_SERVER_NAME_HERE
ServerPassword=YOUR_DESIRED_PASSWORD_HERE
```

Settings set in ConanSandbox\Saved\Config\WindowsServer\Game.ini
Others can be set in the Game.ini file, as such

```ini
[OnlineSubsystemSteam]
ServerName=YOUR_SERVER_NAME_HERE
ServerPassword=YOUR_DESIRED_PASSWORD_HERE
```

**Note:**
Currently if you try to start the dedicated server build from the steam client, you will get some error messages about steam DLLs. This is not the recommended way to start your server, but it should still work if you skip past the error messages.

**Note:**
If you want to play on a server on your local machine, start the client first and then the server.
5.3 Map selection and save files

5.3.1.1 Picking a Map via ini file
This is the preferred way to select a map for the server to run on. You need to edit Engine.ini located in Conan Exiles Dedicated Server\ConanSandbox\Saved\Config\WindowsServer. Add the following lines to this file:

```
/[Script/EngineSettings.GameMapsSettings]
ServerDefaultMap=/Game/DLC_EXT/DLC_Siptah/Maps/DLC_Isle_of_Siptah
```

Replace /Game/DLC_EXT/DLC_Siptah/Maps/DLC_Isle_of_Siptah with the filepath to the map you wish to play on. For the Exiled Lands this should be /Game/Maps/ConanSandbox/ConanSandbox

5.3.1.2 Picking a map via command line
This is a secondary way to select a map for the server to play on. Add the map path to the command line for launching the game, with no -, before the other command line options. It should look something like this

ConanSandboxServer.exe /Game/DLC_EXT/DLC_Siptah/Maps/DLC_Isle_of_Siptah -log

5.3.1.3 Save Files
Each map holds its own save file which is loaded when the map is started. The save files have a .db suffix and will be named something different for each map. For Exiled Lands this is Game.db, for Siptah this is DLC_Siptah.db. Each map also has their own backups and upgrade files.

6 Server Settings
6.1 Exposed Server Settings
These settings are available from the server settings menu accessed from the main menu in the game. Some options are only available before launching a new game and some when you are in a game.

6.1.1 Difficulty Presets

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difficulty</td>
<td>Change the difficulty of the game</td>
</tr>
</tbody>
</table>
### 6.1.2 General

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP</td>
<td>You can change which map to load here, the default map is ConanSandbox.</td>
</tr>
<tr>
<td>Message Of The Day</td>
<td>Set message of the day here.</td>
</tr>
<tr>
<td>Map</td>
<td>Location of map to use</td>
</tr>
<tr>
<td>Server Password</td>
<td>The server password can be changed here.</td>
</tr>
<tr>
<td>Admin Password</td>
<td>This password gives administration rights.</td>
</tr>
<tr>
<td>Make Admin</td>
<td>Click ‘Make Me Admin’ and type in Admin password to get admin access on a server.</td>
</tr>
<tr>
<td>Battleye Enabled</td>
<td>This enables Battleye cheat protection on the server. Funcom highly recommends this to avoid cheaters from affecting your gameplay.</td>
</tr>
<tr>
<td>PvP Enabled</td>
<td>When this is flagged, Player vs Player is enabled on the server.</td>
</tr>
<tr>
<td>Time-Restrict PvP</td>
<td>When this is flagged, Player vs Player is only possible within the set time periods.</td>
</tr>
<tr>
<td>Can Damage Player Owned Structures</td>
<td>When this is flagged, players can attack and destroy other player’s structures.</td>
</tr>
<tr>
<td>Time/Restrict PvP Building Damage</td>
<td>When this is flagged, players can only attack and destroy other player’s structures within the set time periods.</td>
</tr>
<tr>
<td>Community</td>
<td>Selecting a community from the drop down list will affect how your server is filtered in the server list. Please set up your community responsibly, in order to help players find a server that matches their playstyle.</td>
</tr>
<tr>
<td>Server Region</td>
<td>Selecting a server region will affect how your server is filtered in the list. Please select your region to help players find a server that is close to them.</td>
</tr>
<tr>
<td>No Ownership</td>
<td>Flagging this means that the ownership rules on the server do not exist. This means that all players can loot all chests, use all machines, dismantle all buildings etc.</td>
</tr>
<tr>
<td>Containers Ignore Ownership</td>
<td>Flagging this means that all containers are open to other players, but enables optional locking of some chests.</td>
</tr>
<tr>
<td>Enable Sandstorm</td>
<td>Flagging this allows sandstorms to periodically sweep across the Exiled Lands.</td>
</tr>
<tr>
<td>Clan Max Size</td>
<td>This sets the maximum allowable size of clans on the server. Once a clan reaches the limit, no new members can join.</td>
</tr>
<tr>
<td>Tethering Distance</td>
<td>In CO-OP game on a non-dedicated server, clients are tethered to the host player and the maximum distance can be set here.</td>
</tr>
<tr>
<td>Maximum Nudity</td>
<td>This setting determines the maximum amount of nudity on the server. This overrides the client preference, so if a server is set to no nudity, even if a player sets their client to full nudity, they will not be able to see nudity on this server. However, if a server allows full nudity, and a player sets their client to partial nudity, the client will correctly show only partial nudity.</td>
</tr>
<tr>
<td>Server Voice Chat</td>
<td>Select if the server should have an in-game voice chat or not.</td>
</tr>
</tbody>
</table>
Only Allow Whitelisted Players To Join

Flagging this will only allow whitelisted players to join the server.

6.1.3 Progression

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Player XP Rate Multiplier</td>
<td>Raising this multiplies all types of XP that players receive. Speeding up player progression in all activities.</td>
</tr>
<tr>
<td>Player XP Time Multiplier</td>
<td>Raising this multiplies the rate players receive XP passively over time for surviving.</td>
</tr>
<tr>
<td>Player XP Kill Multiplier</td>
<td>Raising this multiplies the amount of XP that players receive from killing monsters and players.</td>
</tr>
<tr>
<td>Player XP Harvest Multiplier</td>
<td>Raising this multiplies the amount of XP that players receive from harvesting.</td>
</tr>
<tr>
<td>Player XP Craft Multiplier</td>
<td>Raising this multiplies the amount of XP that players receive for crafting.</td>
</tr>
</tbody>
</table>

6.1.4 Day/Night Cycle

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day Cycle Speed</td>
<td>Raising this lengthens the entire 24hr day cycle. Individual parts of the day can be tweaked in the settings below. Note, this multiplier is applied in addition to any settings changes below.</td>
</tr>
<tr>
<td>Day Time Speed</td>
<td>Raising this lengthens the daytime period. Daytime hours in Conan Exiles are between 7:00 and 16:59 in-game time.</td>
</tr>
<tr>
<td>Night Time Speed</td>
<td>Raising this lengthens the nighttime period. Nighttime hours in Conan Exiles are between 19:00 and 4:59 in-game time.</td>
</tr>
<tr>
<td>Dawn/Dusk Time Speed</td>
<td>Raising this lengthens both dawn and dusk periods. Dawn in Conan Exiles is between 5:00 and 6:59. Dusk is between 17:00 and 18:59.</td>
</tr>
<tr>
<td>Use Catch Up Time</td>
<td>Enables or disables the use of Catch up time mechanics on the server</td>
</tr>
<tr>
<td>Catch Up Time</td>
<td>In order to create a smooth starting experience for new players, Conan Exiles has the ability to force a client PC to start at a certain time of day, regardless of the server time. If this setting is applied, new characters will start at the specified time, and then play at that time of day until the server “catches up” to them. We recommend not setting this to the darkest hours of the night, unless you are a sadistic person.</td>
</tr>
</tbody>
</table>

6.1.5 Survival

<p>| Setting | Description |
|---------|-------------|-------------|</p>
<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stamina Cost Multiplier</td>
<td>Raising this increase the amount of stamina players use per action. Lowering it decreases the amount.</td>
</tr>
<tr>
<td>Player Active Thirst Multiplier</td>
<td>Raising this increases the speed at which a player gets thirsty. Lowering it decreases the speed.</td>
</tr>
<tr>
<td>Player Active Hunger Multiplier</td>
<td>Raising this increases the speed at which a player gets hungry. Lowering it decreases the speed.</td>
</tr>
<tr>
<td>Player Idle Thirst Multiplier</td>
<td>Raising this increases the speed at which a player gets thirsty. Lowering it decreases the speed.</td>
</tr>
<tr>
<td>Player Idle Hunger Multiplier</td>
<td>Raising this increases the speed at which a player gets hungry. Lowering it decreases the speed.</td>
</tr>
<tr>
<td>Logged Out Characters Remain In World</td>
<td>If flagged, player bodies remain in the world in an unconscious state. If unflagged, player bodies disappear from the world when offline.</td>
</tr>
<tr>
<td>Drop Equipment On Death</td>
<td>If flagged, players who are killed drop their equipment when they die. If not flagged, players who die will respawn with all their equipment.</td>
</tr>
<tr>
<td>Everybody Can Loot Corpse</td>
<td>If flagged, anybody can loot the corpse of a dead player. If not flagged, only the player can recover items from their corpse.</td>
</tr>
<tr>
<td>Thrall Corruption Removal Multiplier</td>
<td>Raising this increases the speed at which thrall entertainers remove player corruption. Lowering it decreases the speed.</td>
</tr>
<tr>
<td>Player Corruption Gain Multiplier</td>
<td>It multiplies corruption given to players</td>
</tr>
</tbody>
</table>

### 6.1.6 Combat

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Player Damage multiplier</td>
<td>Raising this increase the amount of damage a player deals. Lowering it decreases the amount.</td>
</tr>
<tr>
<td>Player Damager Taken Multiplier</td>
<td>Raising this increase the amount of damage a player receives. Lowering it decreases the amount.</td>
</tr>
<tr>
<td>NPC Damage Multiplier</td>
<td>Raising this increase the amount of damage that NPCs and Monsters deal. Lowering it decreases the amount.</td>
</tr>
<tr>
<td>NPC Damage Taken Multiplier</td>
<td>Raising this increase the amount of damage that NPCs and Monsters receive. Lowering it decreases the amount.</td>
</tr>
<tr>
<td>NPC Respawn Multiplier</td>
<td>Raising this increases the respawn time for NPCs after they die. Lowering it decreases the respawn time.</td>
</tr>
<tr>
<td>Friendly Fire Damage Multiplier</td>
<td>Raising this increases the amount of damage a player deals to a friendly player. Lowering it decreases the amount.</td>
</tr>
<tr>
<td>Building Damage Multiplier</td>
<td>Raising this increases the amount of damage a building receives. Lowering it decreases the amount.</td>
</tr>
<tr>
<td>Durability Multiplier</td>
<td>Modifies the amount of durability damage that an item takes when used or damaged. Increasing or decreasing this directly affects how long weapons, tools and armor will last.</td>
</tr>
<tr>
<td>Thrall Wakeup Time</td>
<td>This determines the length of time that a Thrall will remain unconscious.</td>
</tr>
<tr>
<td>Avatar Lifetime</td>
<td>Raising this increases the time in seconds an Avatar is active after summoned.</td>
</tr>
<tr>
<td>Disable Avatars</td>
<td>If flagged, Avatars cannot be summoned on this server.</td>
</tr>
</tbody>
</table>
### Time-Restrict Avatar Summoning
When this is flagged, avatars can only be summoned within the set time periods.

### Enable Auto Facing on attack
Activates the autotargeting system when using gamepad.

### Enable Target Lock
Activates the target lock system making it possible to lock on to enemies and neutrals.

#### 6.1.7 Harvesting

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item Spoil Rate Scale</td>
<td><em>Raising this shortens the time food lasts before spoiling.</em> Lowering it makes food last longer.</td>
</tr>
<tr>
<td>Harvest Amount Multiplier</td>
<td><em>Raising this increases the amount of resources gathered when harvesting.</em> Lowering it decreases the amount.</td>
</tr>
<tr>
<td>Resource Respawn Speed Multiplier</td>
<td><em>Raising this increases the respawn time for resources after being harvested.</em> Lowering it decreases respawn time.</td>
</tr>
<tr>
<td>Land Claim Radius Multiplier</td>
<td><em>Raising this increases the radius at which land claim is applied.</em> Lowering it decreases the radius. This also affects the respawn of resources and NPCs as well as the ability for other players to claim nearby land.</td>
</tr>
</tbody>
</table>

#### 6.1.8 Crafting

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crafting Time Multiplier</td>
<td><em>Raising this increases the duration it takes to craft items.</em> Lowering it decreases crafting time.</td>
</tr>
<tr>
<td>Thrall Crafting Time Multiplier</td>
<td><em>Raising this increases the time it takes to train a thrall.</em> Lowering it decreases training time.</td>
</tr>
<tr>
<td>Fuel Burn Time Multiplier</td>
<td><em>Raising this increases the time fuel units burn.</em> Lowering it decreases fuel burn time.</td>
</tr>
</tbody>
</table>

#### 6.1.9 Abandonment

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable Building Abandonment</td>
<td>If flagged, disables decay on buildings over time.</td>
</tr>
<tr>
<td>Building Decay Time Multiplier</td>
<td><em>Raising this increases the time it takes for building pieces and structures to decay.</em> Lowering it decreases the decay time.</td>
</tr>
</tbody>
</table>

#### 6.1.10 Chat

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chat Local Radius</td>
<td><em>Sets at what radius local chat will broadcast around a player in centimeters.</em></td>
</tr>
<tr>
<td>Max Message Length</td>
<td><em>Sets the max number of characters in a chat message.</em></td>
</tr>
<tr>
<td>Chat Has Global</td>
<td><em>The in-game chat has a global channel all players can speak in.</em></td>
</tr>
</tbody>
</table>

#### 6.1.11 Purge

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>

Version 1.6
Enable Purge | Unchecking will completely disable purge events.
---|---
Purge Level | Raising this increases the purge difficulty level. Level zero will turn purge system off.
Purges per day | Raising this increases the number of times a purge will be triggered in a real day. The actual number of purges is also dependent on the various settings below.
Restrict Purge Time | If flagged, purge’s will be restricted to set times.
Purge Time Restrictions | The Purge will only take place during the times specified.
Purge Preparation Time | Raising this increases the time in minutes between the purge warning and the start of the purge.
Purge Duration | Raising this increases the number of minutes the purge will last.
Minimum Number of Online Players | Raising this will make purges only occur when the set number of players are online. If set to zero, there needs to be at least one player online for a purge to start.
Allow Building | If flagged, building is allowed during purges.
Purge Meter Trigger Value | Raising this increases the amount of different selected actions clans or players can do until they are eligible to be purged.
Purge Meter Update Interval | Raising the interval will make the purge meter increase slower, especially for active people and clans.

### 6.1.12 Pet and Hunger

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Pen Crafting Time Multiplier</td>
<td>Multiplies the speed of crafting in animal pens.</td>
</tr>
<tr>
<td>Food Container Range multiplier</td>
<td>Multiplies the distance that Food Containers can feed your companions.</td>
</tr>
<tr>
<td>Use Minion Population Limit</td>
<td>Activating this limits the population of clans and players on the server.</td>
</tr>
<tr>
<td>Thrall and Pet Population Base Value</td>
<td>This is the number of Thralls and Pets you can own as a clan of one/single player.</td>
</tr>
<tr>
<td>Thrall and Pet Population Per Player</td>
<td>For each player in the clan, the population limit the population limit is increased by this number.</td>
</tr>
<tr>
<td>Overpopulation Cleanup Interval</td>
<td>This is the period, measured in minutes, that the server cleans up thralls and pets that go above the population limit.</td>
</tr>
</tbody>
</table>

### 6.1.13 Siptah

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Maelstrom</td>
<td>Unchecking will completely disable maelstrom events.</td>
</tr>
<tr>
<td>Maelstrom time restrictions</td>
<td>The maelstrom will only take place during the times specified.</td>
</tr>
<tr>
<td>Maelstrom minimum online players</td>
<td>The minimum number of players required to be online before the maelstrom can start.</td>
</tr>
<tr>
<td>Maelstrom endurance drain multiplier</td>
<td>Raising this value will increase the amount of endurance drained while mounted in a maelstrom.</td>
</tr>
<tr>
<td>Allow building in the maelstrom</td>
<td>If checked, building will be allowed within the maelstrom.</td>
</tr>
<tr>
<td>Show maelstrom on the map</td>
<td>If checked, maelstrom will be showed on the map UI when active.</td>
</tr>
</tbody>
</table>

Version 1.6
### Elder things enabled
If checked, Elder things will be spawned and attack players in the maelstrom.

### Elder thing idle lifespan
Raising this increase the amount of time Elder things will persist out of combat before vanishing.

### Elder thing spawn rate
Increasing this will increase the rate at which Elder things spawn in the maelstrom.

### Ambient elder thing respawn rate
Changes the amount of time between ambient elder things spawn.

### Max ambient elder things
Max ambient elder things.

### Max ambush elder things
Max ambush elder things.

### Siege elder things enabled
Siege elder things enabled.

### Siege elder thing map markers
Siege elder thing map markers.

### Elder thing siege damage multiplier
Elder thing siege damage multiplier.

### Minimum building size to be sieged
Minimum building size to be sieged.

### Siege elder thing respawn rate
Siege elder thing respawn rate.

### Max siege elder things
Max siege elder things.

### Elder thing siege building size multiplier
Elder thing siege building size multiplier.

### Maelstrom cooldown
Maelstrom cooldown.

### Maelstrom accumulation time
Maelstrom accumulation time.

### Maelstrom duration
Maelstrom duration.

### Maelstrom dissipation time
Maelstrom dissipation time.

### Maelstrom building damage enabled
Maelstrom building damage enabled.

### Vault refresh time
Vault refresh time.

### Vault refresh deviation
Vault refresh deviation.

### Wild surge spawn time minimum
Wild surge spawn time minimum.

### Wild surge spawn time maximum
Wild surge spawn time maximum.

### Surge cost multiplier
Surge cost multiplier.

### Surge despawn timer
Surge despawn timer.

### Leyshrine defence active time multiplier
Leyshrine defence active time multiplier.

### Minimum wild surges
Minimum wild surges.

### Maximum wild surges
Maximum wild surges.

---

**6.2 Admin Commands**

The admin command panel can be accessed in the game by pressing CTRL-SHIFT-C. This gives access to a great variety of functions that admins will use in the game, from spawning items to setting times of day, to cloaking etc.

There are several additional commands that can be run from the command line (insert or tilde to open) which we think admins may find useful for day to day activities.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SummonPlayer[Playername]</td>
<td>Summon a player to your location. Useful for situations where they are stuck etc.</td>
</tr>
<tr>
<td>Fly</td>
<td>Will allow you to fly around the world. Extremely immersion breaking...</td>
</tr>
</tbody>
</table>

---

Version 1.6
God

Makes you invulnerable to all damage, but also prevents knockbacks and other secondary effects from being applied to your character.

ToggleDebugHUD

This shows server performance and number of players in the top right and your location co-ordinates in the bottom left. (Note – not as cool as ToggleDebugHug command!)

Ctrl-Alt-Shift-L – Will open a small window that shows your location in a format that can be copy pasted easily. Use this for bugfixing and teleporting to help stranded players.

6.3 Unexposed Server Settings

There are many server settings that are not exposed in the server setting ui. To view a full list, open the console (insert or tilde) and type `GetAllServerSettings`.

CAUTION – These settings remain hidden for a reason. These can have an extremely negative impact on your gameplay experience. Use with caution (but have fun, because this is a sandbox, after all!)

<table>
<thead>
<tr>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>AvatarSummonTime</td>
</tr>
<tr>
<td>bCanBeDamaged</td>
</tr>
<tr>
<td>BlueprintConfigVersion</td>
</tr>
<tr>
<td>BuildingRadialDestructionForceMultiplier</td>
</tr>
<tr>
<td>ClipVelocityOnNavmeshBoundary</td>
</tr>
<tr>
<td>ConciousnessDamageMultiplier</td>
</tr>
<tr>
<td>ConfigVersion</td>
</tr>
<tr>
<td>PlayerSprintSpeedScale</td>
</tr>
<tr>
<td>PlayerStaminaCostMultiplier</td>
</tr>
<tr>
<td>PlayerStaminaCostSprintMultiplier</td>
</tr>
<tr>
<td>PVPBlitzServer</td>
</tr>
<tr>
<td>RotateToTargetSendsAngularVelocity</td>
</tr>
<tr>
<td>TargetPredictionAllowSecondsForAttack</td>
</tr>
<tr>
<td>TargetPredictionMaxSeconds</td>
</tr>
<tr>
<td>UnarmedNPCStepBackDistance</td>
</tr>
<tr>
<td>UnconsciousTimeSeconds</td>
</tr>
<tr>
<td>UseClientCatchUpTime</td>
</tr>
<tr>
<td>UseLocalQuadraticAngularVelocityPrediction</td>
</tr>
<tr>
<td>ValidatePhysNavWalkWithRaycast</td>
</tr>
<tr>
<td>WeaponEffectBoundsShorteningFraction</td>
</tr>
<tr>
<td>CrossDesertOnce</td>
</tr>
<tr>
<td>DogsOfTheDesertSpawnWithDogs</td>
</tr>
<tr>
<td>EnforceRotationRateInCombat_2</td>
</tr>
<tr>
<td>EnforceRotationRateWhenRoaming_2</td>
</tr>
<tr>
<td>LocalNavMeshVisualizationFrequency</td>
</tr>
<tr>
<td>LQAVPFadeTime</td>
</tr>
<tr>
<td>LQAVPMethod</td>
</tr>
<tr>
<td>LQAVPUseTime</td>
</tr>
<tr>
<td>MaxAggroRange</td>
</tr>
</tbody>
</table>
Some things to be aware of:

You have to restart it when you want to work on a new mod. (This might not get fixed any time soon, since flushing/reloading assets seems problematic.)

Renaming mods is not trivial, so choose good unique names.

The feedback for users when joining a server that has mods is very bare bones right now. It currently requires people to look for the mods manually, but this will be improved.

7.1 Mods – Short Version
A mod in Conan Exiles is a single .pak (archive) file containing modified versions of game assets, and optionally new assets.

To create mods, get the devkit from the Epic Games Launcher, do your changes and build the mod to generate a mod file. You can either distribute the mod through the Steam Workshop by uploading it from the DevKit, or simply share the file with your friends directly.

7.2 Installing Mods
The easiest way to install mods is to subscribe to them on the Steam Workshop. Once they are downloaded you can find them in the "Mods" menu from the Main Menu in game. You can also use mods that you get outside of the Steam Workshop - put the mod .pak file in "<SteamLibrary>\steamapps\common\Conan Exiles\ConanSandbox\Mods" and it will be available in the in-game mods menu.

7.3 Installing mods on a dedicated server
Client side: To join a server with mods, you must first have the same mods the server is running, with the same load order. When joining a server, you will get a message box telling you which mods you are missing. You cannot connect to the server unless you have those mods installed and activated.

Version 1.6
Server side: To start a server with mods you put the mod files (<mod name>.pak) in "<dedicated server folder>/ConanSandbox/Mods/" and add a text file with the file names of those .pak files, one per line like this:

```
modlist.txt - Notepad2

1 ExampleMod.pak
2 AnotherExample.pak
```

Instead of creating modlist.txt manually you can also select the mods you want in your game client, then copy the file from "<game folder>/ConanSandbox/Mods/modlist.txt" to "<dedicated server folder>/ConanSandbox/Mods/modlist.txt". When clients try to connect to the server, the game will first check to make sure the clients have the same mods as the server selected. If they don't they won't be able to connect.

### 8 Conan Exiles DevKit

**NOTE:** You should install the DevKit with the shortest path possible. The build process will fail if the paths are too long. So to prevent this error, you should install under `C:/ConanExilesDevKit`, rather than `C:/Program Files (x86)/MyStuff/Games/ConanExiles/ConanExilesDevKit`.

Download and run the DevKit from the Epic Games Launcher ([https://www.unrealengine.com/download](https://www.unrealengine.com/download)), under the "Modding" tab. The DevKit is a modified version of the Unreal Engine editor and will let you do (almost) everything the developers can do except C++ code changes.

#### 8.1 Discord

Community members have set up a discord for exiles modding: [https://discord.gg/66jB9dN](https://discord.gg/66jB9dN). Please read #rules when you join!

#### 8.2 YouTube

- [Modding tutorials by HellsSauna](https://www.youtube.com/watch?v=example)

#### 8.3 Usage

The first time you launch the DevKit it will open with a default mod selected. You can use this to play around and see how things work, but before you start working on something you want to use or distribute to other people you should create a new mod with a unique name. See the section "Conan DevKit menu" --> "Create new mod" below for more details.

**Note:** The folders in "<devkit folder>/Games/ConanSandbox/Mods/" are used by the DevKit to edit the mod, so deleting a folder here means you can no longer edit that mod. These are the folders you want to have backups of!

Editing existing game assets: Modify assets normally. Note that you can't rename, move or delete existing game assets.

Version 1.6
To create new assets: New assets can only be added in "Content/Mods/<mod name>".

Use "Play in current viewport" to test with the mod content loaded.

8.4 Build errors
When building a mod, Unreal will cook each asset. This process will fail if the assets contains certain errors (like a Blueprint compiler error). If the build fails, check the output log for the lines saying something like this (should be near the bottom):

LogModManager: LogInit: Display: Failure - 7 error(s), 10 warning(s)
LogModManager: ModCook completed with code 1
LogModManager:Error: Error cooking. Cook process returned: 1

In this example there are 7 errors that caused the build to fail. The log will say what the errors were in more detail further up. Fix these, and try to build again!

8.5 Sharing Mods
When you have a mod you want to share with others, you must first Build the mod. Then you can either upload the mod to the Steam Workshop or share the generated .pak file directly with your friends.

8.6 Conan Exiles DevKit Menu
- Select active mod: Switch which mod you are currently editing. This will restart the editor!
- Create new mod: Use this to create a new mod.
  - The name you enter here will be used to create a folder (<devkit folder>/Games/ConanSandbox/Content/Mods/<mod name>).
  - Any assets you add will end up here, so make sure you choose a unique name to avoid conflicts with other mods. (Especially until we figure out a safe way to rename mods >.<)
  - You can change the display name of the mod to something more user friendly before building/uploading to Steam.

8.7 DevKit Window
- **Name**: Name of mod as it appears in the in-game mod menu and in the Steam Workshop.
  - The name can't be empty and must be less than 128 characters long.
- **Author**: Name shown as author in the in-game mod menu.
- **Author URL**: Shown in the in-game mod menu.
- **Version major, minor, build**: Show in the in-game mod menu.
- **Description**: Shown in the in-game mod menu and on the Steam Workshop.
  - Max length is 8000 characters.
- **Change notes**: Shown in Change Notes on the Steam Workshop page.
- **Preview image**: A .png image that must be less than 1MB. Used on the Steam Workshop page.
- **Build mod**: This will cook the mod and package it so it can be used/uploaded to Steam.
  - The build can take a while (up to an hour).
- The generated .pak file is the only file needed to load the mod. You can share this both with and without Steam.
- **Open in explorer:**
- **Active mod folder**: Opens the local folder of the active mod that the DevKit uses when editing the mod.
- **Built mod folder**: Opens the folder where the .pak file generated from a build is located.

- **Cook by the book**: By default, the DevKit will find and cook each asset modified in the currently active mod individually. If "Cook by the book" is checked, it will do a full dependency based cook (but force include all new assets added by the mod) and then pack up cooked versions of the mod's assets. The normal cook will almost always be much faster.

- **Steam file ID**: The Steam Workshop item ID used to identify the mod in the Workshop.
  - This is automatically managed when uploading to Steam.
  - **Open workshop page**: Opens a browser window with the Workshop page of the current mod. It might take a few seconds before the page is updated after uploading.

- **Steam visibility**: Visibility of the mod in the Steam Workshop.
  - **Public**: Visible to everyone.
  - **Friends-only**: Visible to you, your friends and admins.
  - **Hidden**: Visible to you, admins and users marked as creator.

- **Upload to Steam button**: Uploads the current mod to Steam. You must first have a build of the mod.

- **Update mod info to Steam button**: This will only update the info on the Steam page for your mod with the current state of all the textboxes and preview image. Allows you to update the preview image on Steam and Steam visibility without uploading the whole mod.

### 8.8 Steam

You can upload a mod to Steam through the DevKit so others can subscribe to the mod. Note that changes made to the mod on the Steam Workshop website will NOT be reflected in the DevKit. This means that changes to name, description, visibility or preview image will be overridden the next time you upload your mod from the DevKit, so make sure you update these field only through the DevKit. Changes to the other fields will not be affected.

### 8.9 Creating an Example Mod

- Open the DevKit and go to the DevKit drop down menu. Select "Create a new mod..." and you will be asked to enter a name for the mod.
• Create new mod
• Enter a name and click "Create". Once the editor has restarted you can begin creating the mod.
• In the content folder go to Items/Weapons/Axe and open BP_Axe.

• Edit Items/Weapons/BP_Axe
• Select the 'StaticWeaponMesh' in the Components window.
- Select StaticWeaponMesh
- Change the values of the Scale property of the Transform in the Details window.
• Change the scale properties
• Hit 'Compile' and 'Save' for that Blueprint. Repeat for other items (like 'Items/Weapons/Torch', 'Items/Weapons/RepairHammer', 'Items/Weapons/Pickaxe').
• To test your mod you can use 'Play' from the main window.

• Use 'Play in selected viewport'
• Once you are done with your mod, go to the DevKit panel. See the "DevKit window" section for details on the different fields and buttons.

• Go to DevKit panel
• Enter the details and select a preview image.
1. Click the "Build mod" button to build the mod. This process can take a while depending on how many assets are changed in the mod.

2. Once the build is done, you can either click "Upload mod to Steam" or go to the 'Built mod folder' and share the 'YourModName.pak' file directly.

8.10 Under the hood
The devkit is built from Funcom's modified version of Unreal Engine 4.12.5. The main changes specific to the devkit are:

- It (transparently to the editor) redirects reads/writes of assets/maps to the mod's folder on disk:
  - Reads/writes in <content>/Mods/<active mod name>/*/ are remapped to <content>/Mods/<active mod name>/Local/*
  - Reads/writes anywhere else in <content>/Mods/* are blocked.
  - Reads/writes anywhere else under /Content are redirected to <content>/Mods/<active mod name>/Content, with reads falling back to the original path if nothing is found in the mod.

- It tries to prevent adding/moving/deleting/renaming anything outside /Content/Mods/<active mod name>/

- It prevents opening or exporting assets Funcom bought from the marketplace (for licensing reasons).

- It adds the devkit toolbar button and menu.
9 Modding DataTables and Components

The old way of modding a DataTable would be to edit the DataTable directly and applying the changes directly to the asset. Modifying an existing asset is the recipe for having incompatible mods. Unless you are specifically replacing something that already exists, you should always strive to not modify existing assets directly.

For DataTables the new method involves using a set of tools you unlock through a new class called a ModController.

9.1 Step One - The ModController

Create a new blueprint in your mods folder that inherits from the ModController class.

9.1.1 ModController Info

- This blueprint will be found by the game as long as it exists in your mod folder, and the server will automatically create an instance of it and spawn it during startup.
- It will always be available from anywhere, so it's a great place to put global data for your mod.
- It will also be saved to the DataBase. If you create new variables on it, and tag them with the "SaveGame" flag, it will be saved and loaded when the server restarts. So persistent data can also be stored here for your mod.
- All ModControllers will be Spawned/Loaded in the mod load order! That primarily means their BeginPlay will be ran in that order as well, but it is also relevant in Step Two.
- ModControllers get Spawned/Loaded before any other saved actor in the DataBase.
- It is always relevant to all players, and can replicate properties to them. Any variable marked as Replicated will be updated on all clients. Client-side modifications you have made can get global information from your mod from here.
9.2  Step Two - Make your DataTable

In this example we are creating a new table that uses the ItemTable struct. You do that by right clicking in your mod folder -> Miscellaneous -> DataTable. And selecting "ItemTableRow". If you are targeting different DataTables, select the appropriate struct for your target DataTable.

We are creating a completely new item with a new ID. Stone2, ID 1337. Other than the name and description it’s the same as normal Stone.

And we are altering an existing item, by overriding the row in the DataTable. This is Steel Bar, ID 11502. Which we are changing the name of, and the descriptions. Other than we copied the values completely from the normal Steel Bar entry in the ItemTable.

The goal here is to Merge my own mod specific ItemTable (MOC_ItemTable) into the games ItemTable.

NOTICE: The row ID needs to be unique for new items between mods, otherwise they will override each other! We are considering some ideas so you don’t have to worry about this anymore, but for now you need to be careful to pick unique IDs for your new entries.

9.3  Step Three – ModDataTableOperations

Every blueprint that is created that inherits from ModController will automatically get a function added called "ModDataTableOperations", which is very similar in concept to the ConstructionScript.

It will automatically be executed on game startup. And only allows certain functions to be executed inside of it. This is because it needs to run very early to make sure all the DataTables are altered before
they get accessed by any game logic. And to do that, it runs these functions on the Default Object for the class. So doing anything other than the approved actions here does not make sense.

Here I use the "Merge Data Tables" function to merge my "MOC_ItemTable" into the "ItemTable".

I also show you how to use the "Remove Data Table Rows" function to simply delete rows, and the "Clear Data Table" to show how to completely remove all entries from a DataTable. You should obviously not completely clear out the RecipesTable, unless perhaps if you are making a complete total conversion mod.

9.3.1 ModDataTableOperations
Gets run as early as possible during game startup

Is run on the Default Object of the class. Not the ModController object you get during normal play as mentioned in Step One.

They are executed in Mod Load Order. Which means that if multiple mods modify the same DataTable row, the last one in the mod load order will be the winner. But it will still be compatible with those mods, but one will lose some of its changes to the other mod overriding it.

You are only allowed to use specifically approved functions here. Since it runs on the default object, I don't want you to mess anything up. The new DataTable functions here are also not available outside of ModDataTableOperations.

Version 1.6
9.4 Conclusion DataTables
You now have a mod that modifies a DataTable without actually touching that DataTable's asset! This means that it will not always break whenever we touch that DataTable in an official patch. And it means that other mods that follow the same method can all dynamically merge and remove things to any DataTable as well! This should make life easier for modders, giving them less work to maintain their mods. And gives players who use mods more options to mix and match their favorite combinations of mods.

We plan to expand on this feature of modifying DataTables to allow individual columns to be edited, and not just entire rows.

9.5 Dynamically added Components
The second problem the patch tries to alleviate is when mods require new RPCs (Remote Procedure Calls). Most importantly for our game the RunOnServer call. (You can learn more about owning connections here https://docs.unrealengine.com/latest/INT/Gameplay/Networking/Actors/OwningConnections/)

In our game the actors that will have an owning connection is the PlayerController and the controlled Pawn/Character actor. Our PlayerController class is the "Funcombat_PlayerController". Our controlled Pawn for players is the "BasePlayerChar". You can add RPCs that will work with owning connection to any of these Actors, in any of the blueprints they inherit from. Which for BasePlayerChar means that you can add RPCs in the parent blueprints as well (BaseSurvivalChar, BaseBPCombat, BaseBPChar). This is how many modders have been dealing with compatibility issues, introducing a new inheritance level between one of these layers, getting their own blueprint to add stuff in. But this method still requires edits to one of the mentioned blueprints, to change the parent of one of them. So, it will break if we update that asset, or if any other modder is touching the same one.

Another important layer to the owning connections is that it extends to owned objects such as Components. So, you can do RPCs through Replicated Components as well, which you can find many
examples of us doing in our blueprints as well. This is what the new system takes advantage of. You can now create a new replicated component that you can attach to any Actor without having to touch that asset.

9.6  Step One - Create your Replicated Component
Create a component that fits your need, does not matter which type it is. But if you want to use this for RPCs, you have to enable the "Component Replicates" option under Class Defaults.

9.7  Step Two - Add your component to your ModController's AdditionalClassComponents list
With this setup, any BasePlayerChar that gets spawned will get a MOC_Component added to it.

You can add a ComponentTag to it if you wish, so you can do GetComponentsByTag to find it later, or in case you need multiple of the same type and need to distinguish them.
9.8 Step Three - Make all the new RPCs you need

As an example, I have added a new radial menu button to the "Wooden Box", that adds a Give Wood option. But as mentioned before, touching an existing file is asking for incompatibility issues. So this is just as an example, you should do this by making a completely new placeable.

Inside the MOC_Component:

Inside the BP_PL_Medium_Chest (Which is the Wooden Box):
9.9 Conclusion Components

The wooden box now has a new RPC call to the server that will give the player one wood item. And we did it without having to touch any of the player or the playercontroller blueprints!
10 Making a Map

Part of the multimap functionality was exposing everything needed to make a map to mod support, so that modders can make their own maps. As such, making a new map should be completely data driven. The basic flow for this is to either load different data files based on which map you are on as defined by the MapDataTable, or to add map restrictions to specific data tables and take those restrictions into account when reading the table.

10.1 The New Map (UWorld)

When planning a new map do not make a map bigger than 8km x 8km. Physics checks stop working outside that limit due to Code optimization.

Unreal documentation on good Landscape practices and settings:

Landscape Technical Guide

Unreal documentation on World Composition:

World Composition User Guide

For Isle of Siptah we used World Creator (https://www.world-creator.com) to experiment with landscape shapes and importing this as a heightmap into Unreal. During the course of production all areas have been manually touched, but it served as a useful quick iteration tool and a base to start with.

10.2 Undermeshing

Our players are quite skillful in finding new ways to build their bases in areas not intended, usually giving them a huge unfair advantage.

One on the most common exploit is utilizing the gaps between meshes and/or terrain and building their base there.

- Either put a simple shape in the open space to block players from building there.
- Or paint the terrain heightmap to better follow the assets placed on it.
10.2.1 Anti undermesh system and special properties volume

Because of the undermeshing exploits players have been using, an anti undermesh system has been created to stop players from being able to build and access areas they are not intended to. This system will detect if players are underneath or inside terrain or static meshes and will then kill players after a certain amount of time has passed. To prevent players from being killed inside caves, which normally are located under the landscape, a special properties volume is necessary. The special properties volume must cover all parts of the cave and allow undermeshing must be ticked on for the volume to work:
10.3 Building blockers

If you want to limit the areas players can build: Create a BP_SplineBuildLimit that covers the playable build area and tag “Allows inside”. Anything outside this will be non-buildable unless you create more splines with “Allows inside”.

Create nobuild areas within this using additional volumes and splines.

For complex shapes use: /Game/Systems/BP_SplineBuildLimit (Often referred to as a BuildingBlockerSpline)

- It can be inverted, allowing players to only build inside and not outside it. Mainly used on the BuildingBlockerSpline covering the entire build area on the map.
- Building splines have no height restrictions, it will go infinite up/down.
- Keep overly complex splines to a minimum.
- Select and ALT-drag a point will create a new point on a clockwise order in the spline
- Be wary of twisted rotation of the spline tangents as this will cause random gaps in the functionality.
For simple shapes (Box) use: /Game/Systems/Building/BuildingBlockerVolume

- Great for caves and anywhere you don’t want the limit to extend infinite up/down
- Don’t use scale transform top alter size, change the “Box Extent values instead.

Building Blocker volumes and splines need to be in the “Persistent Level” to ensure they are always loaded and active even if you teleport.

10.4 Climbing blockers

To stop the player from climbing in an area:

- Place out the blueprint /Game/Systems/Building/BP_ClimbingBlockerVolume and adjust the size. Make sure the climbing blocker is in the “Persistent Level” to ensure they are always loaded and active even if you teleport.
- By default all physical materials used have the “Can be climbed = ON”, if you want a specific material to not be climbable (like ice) then you can assign a new physical material with it turned off.

To allow climbing in an area which is climbing blocked, like ladders in a dungeon, use /Game/Systems/Building/BP_ClimbingOverrideVolume

10.5 Procedural foliage (Experimental feature in unreal 4.15)

If using Procedural Foliage Volumes, it is very important that you set

Is editor only = ON & Initial Life span = 1

This is to stop the volume existing at runtime, which would block all npc attacks from hitting anything and break admin teleporting.
10.6 Water

It is often easier to just copy this from previous made map, but this will explain the components needed.

10.6.1 To be able to drink water

- The Mesh must have Actor tag “Water”

- The mesh must have collision so the interaction raycast have something to “hit”
- Collision settings:
10.6.2 Ripples

- For the water mesh to receive ripple effects, Rendering → “Height output reference water” = ON
- Example Material with ripples set up: /Game/DLC_EX/DLC_Siptah/Environment/Materials/MI_river_siptah_refraction_Stillwater.
- Example texture used in the material to mask out where ripples should be: /Game/DLC/DLC_Siptah/Environment/Landscape/Textures/T_IsleOfSiptah_WaterRipples.

10.6.3 Sound

- To give sound when moving in it, the material needs a physical material. (ex. PM_Water_deep)
- The mesh needs to have collision.
10.6.4 Pathfinding
To stop monsters from pathfinding into a swimmable area: Create a “Nav Modifier Volume” and give it "Area Class - NavArea_Water"

10.6.5 Swimming
- Add a Physics volume with Collision preset set as “WaterPhysicsVolume”
- In the Physic Volume, Character Movement set Water Volume = On

Post process Volume is needed for underwater camera affect. Create your own or Use an existing one from Exiles/Isle of Siptah.

10.6.6 Good practices
- Make rivers with “/Game/ProceduralNaturePack/Spline_BluePrints/master_river_spline”, export it to your preferred 3d software and tweak the uv-mapping to make it go fast/slow in areas.
- It is prudent to keep rivers flat and use waterfalls to give it elevation. Adjusting all the Volumes (Postprocess, Physics & Nav) to correctly follow a sloping meandering river is a headache you would want to avoid.

10.7 Optimization
It is good practice to have Camps and Caves in separate levels. This allows you to give more different streaming distances to reduce the amount of content in memory. Having anything underground in a separate level also makes it easier to make a Landscape LOD of only the “top” part.

10.7.1 Instancing:
Large amount of similar assets close together in an area should be instanced together to save drawcalls.

We use the Instance Tool add-on for this work, but be aware that:
- Any foliage painting on a asset that is turned into a instances mesh will be gone.
- Vertex painting on the assets will be gone.
- Assets that have negative scale will have their normals inverted if instanced.
- Unfortunately any instanced asset will not display its collision in the viewport. (this is purely visual)
- The Instance tool adds Suffix (HISMA) to the Actor and it keeps the name even if converted back to Static Mesh
• Modders do not have access to the “Instance Tool” and have to do it the hard way.
• To help with seeing what is instanced, toggle Show->advanced->Foliage on/off.

These are good settings to use when converting Actors → Instance / Instance → Actor.

10.7.2 Landscape
On Exiles & Siptah we use no more than 4 landscape layers per chunk due to a hard lock on PS4 and general performance cost.

To see the layers used, make sure you are in Landscape Mode → Paint and find the Landscape visualizers

Use LOD 1 collision on landscape to save memory/performance.

Version 1.6
The collision will be less accurate since it has less polygons than the visual mesh, in most cases this is not an issue, but there are things to be aware of.

- The closer the heightmap is to 90 degrees the bigger chance of the player clipping through the landscape.
- If you cut a hole in the landscape it will be less accurate around the edges.
- To help visualize how the LOD1 on the landscape looks like. Use the console command “r.ForceLOD 1”

10.8 Materials
If making a new asset, do not tweak any material that has a Material master used in a previous DLC/main game. Duplicate the master if need be and make material instances from this. Tweaking existing Master Materials can have big size impact, performance or non-conformal LOD effects. Stick to using the original master materials as far as possible.

10.9 MapDataTable (Content/Maps/AlwaysCook/MapDataTable)
The MapDataTable is the most important part of making a map. It defines many of the resources that your map will pull from in order to differentiate its behavior from other maps. It also provides names for your map in the UI, and for your map’s save files. Many of these are self explanatory, but we will discuss some of these in further detail later on.
• Map Name - The player facing name of your map. This will show in the UI for map selection
• Map World - The UWorld asset that defines your map
• DBName - The name of the database file that your map will use for saving and loading
• Unique Id - A unique ID for your map
• Fullscreen Map Texture - The texture to display on the Map UI in game.
• Fullscreen Map Mask - A black and white mask to apply over the map UI in game. This blocks admin teleporting to out of bounds locations.
• Static Map Markers Table - A table defining static points of interest for your map
• Map Coordinates and Spans - These values map texture coordinates on Fullscreen Map Texture to world coordinates in game. Incorrect values here will result in player location markers being off.
• Dungeon Locations Table - A table that defines a list of dungeon locations for your map. These locations override player location on the map to make the player appear in a logical location on the map, even if they are in a dungeon that is outside the map bounds.
• Feat Blacklist Table - A table defining a list of feats to not allow for purchase on your map
• Character Creation Class - The class to be used for character creation in your map.
• Purge Config Table - A table that defines the configuration of the purge on your map. Set to none to disable the purge.
• Hints Table - A table that defines which hints will appear during loading screens for your map. Setting this to none will cause no hints to appear on loading screens.
• DLC Package - The DLC entitlement required in order to play on this map.

10.10 Map Coordinates and Spans
These enable player positions in the world to be mapped to positions on the 2d texture provided by the fullscreen map. You can get a map position using Ctrl+Alt+Shift+L in editor. I suggest choosing two locations that are easy to identify on the map and in world. Get the texture coordinates from the map, and go to those locations in world and get the world locations. You may need to adjust with a bit of trial and error.

10.11 Dungeon Locations Table
This table defines a mapping between dungeon locations and world locations on the map UI. If a player is within the MapToOverride and the GeneratedBounds then their location will be set to the OverrideLocation. This is how a player inside the Well of Skelos, which is actually far to the northeast of the map, appears to be located inside the volcano on the map.

1. Find the “DungeonLocations” table
2. Add a new entry to this table (or more if there are more levels you want to add as dungeons).
3. Select a level to add in the MapToOverride drop down and add an override location. This could be the x and y world coordinates of the dungeon entrance.
4. Now start the game in the editor as normal. Any map should do.
5. Open the console and type in GenerateLevelBounds. The game can/should freeze at this point, but wait for Generation Complete to show on screen before you continue.
6. When generation is done leave the game running and open the DungeonLocations (you need to close it first if it was already open) and make sure the GeneratedBounds are there for your new dungeon(s).
7. Open the map in game (M) and press one (1) on the keyboard. Check that the dungeon is showing in the correct area on the map.
8. Save and submit the DungeonLocations table.

10.12 Purge Config Table
This table sets up how the purge works, which locations are valid for which purges and so forth. This is too long do document here, instead please refer to the “Primer - The Purge.pdf” that can be found in this .zip file (that also contains other guides):

Purge document

10.13 Hints Table
This table is a list of hints that each have a random chance of being chosen to show up on a loading screen. Simply add a new entry in the table and write out your hint in the HintDescription text box. This table should use the HintsStructure struct as its base.
10.14 Character Creation Class
Character creation can be customized per-map. Each map has its own Character Creation actor that defines how its character creation works. In the properties panel on the character creation actor you can define cinematics, whether the finalize note is attached to the player, and overlay widgets for the cinematics. In the viewport you can supply camera positions for the various phases of character creation, and an animation blueprint to use for animating the character during character creation.

This actor is created when the character creation widget appears, and is placed in the world at the location of an actor with the actor tag “CharacterCreationActor.” Once you place this actor you can build your character creation scene around it to define how you want character creation to look.

10.15 Spawn Locations (MapSpawnLocations data table)
The Isle of Siptah update added the ability for players to select between multiple spawn locations for their randomized spawn location if they do not have a bed or bedroll, and do not have a dynamic spawn point (such as a dungeon).

Create a new row in this table for each map.

- Level Name - The name of the level asset that these spawn points should be loaded for
- SpawnPoint_LocText - The player facing name of this spawn point
- SpawnPoint_NameTag - The tag that will be applied to spawn points in this location. This is how the game knows which random spawn points belong to which location.
- Icon and Icon_Large - Icons to display in Character Creation or Respawn UIs for this location
- Description - Description of this location in Character Creation
- AvailableInCharacterCreation - Whether or not this location is available in character creation
- UseFirstTimeSpawns - Whether or not the spawn system will utilize player starts set as first time spawns

You must then place BP_ConanPlayerStart or PlayerStart Actors in your level and give them the tags used in SpawnPoint_NameTag in order for players to utilize them.
10.16 Character Preview & Dye Window
The character preview (Paperdoll) and Dye Window utilize a special level within the map that you will need to have set up. You can just copy Paperdoll.umap located in Content/Maps/ConanSandbox as it has everything set up to support this and no changes will be needed. The important thing to remember when setting this level up is that it needs to have its Streaming Distance disabled, otherwise it will only work when a player is within a certain range.

To do this, open the Levels window and then open the World Composition from there. Create a new layer by pressing the + icon at the top and name it BlueprintStreamed. Uncheck Stream Distance for this new layer, then add the Paperdoll level to it.

10.17 Exiles Journey (DT_ExilesJourney)
This data table defines journey steps. Each journey step has a MapRestriction array. A journey step will be available on all maps provided in this array. If the array is empty, the journey step will be present on all maps.

One important thing to keep in mind with Journey steps is to preserve the number of steps in each chapter. The UI will not automatically adjust its layout so a journey chapter without exactly 10 steps in it will cause UI issues.

10.18 Temperature
Temperature for a map is provided by a grayscale texture, with pure black being the coldest, and pure white being the hottest temperature. For reference, see T_TemperatureMap. Somewhere in your level you will need to place an actor with an EnergySource component on it. This allows you to set some values for how Temperature is managed in your map.

Here are the values for Siptah for reference
The important values here are the Energy Map, which defines the texture we discussed earlier, and the Top Left, Bottom Right values. An important note here is that Top Left needs to have positive values, and Bottom Right needs to have negative values. This may mean, depending on how your map is laid out in world coordinates, that you may need to rotate your texture 180 degrees so that it is upside down, and allows these values to invert it.

You can check your temperature map in game by pressing ] when the map UI is open. You may need to zoom in and back out once to get the temperature image to scale to the right aspect ratio.

---

11 Technical manual Changelog

Version 1.3

- **Manual layout overhaul**
  - *Cleaned up font type/size use.*
  - *Commands, settings and other useful info has been emphasized with italics, font or tables.*

- **Technical manual content update**
  - Exposed server settings *updated according to changes to the In-game server settings.*

Version 1.6
Exposed server settings descriptions re-written to better describe how they work and what they do.

Mods for Conan Exiles updated according to changes to the Conan Exiles DevKit

**Version 1.4**

- Updated Server content
- Added purge settings
- Added/removed a few updated server settings
- Added three new chapters

**Version 1.5**

- Added chapter “The Purge”
- Added server setting Avatar Lifetime
- Updated some descriptions

**Version 1.6**

- Added server setting “Only Allow Whitelisted Players To Join” to General settings
- Added server settings for Pet and Hunger
- Added server settings for Siptah
- Added Chapter about the Siptah expansion
- Added “Map selection and save files”
- Added “Making a Map”