**Purpose:**

To install and configure suitable server software for use with a geospatial software system. Linux Mint 17 will be used as the example.

Security issues may require a reverse proxy server, and thus the opening of port 8080 as documented may be superseded.

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| **Step** | **Major Activity** | **References, Forms and Details** |
| **1** | Download Linux Mint:   * Download an ISO image from <http://www.linuxmint.com> * Save the result to a CD | * the flavour of Linux Mint is a free choice. Linux Mint 19.2 is current at time of writing * the 64-bit version is often preferred, because it has a large address space |
| **2** | Install Linux Mint.   * start the hardware with the CD in an optical drive * answer the questions | * The installation will normally reformat the hard drive. Options are presented to install multiple versions, and to change hard drive partitions * Choose a strong master user password |
| **3** | Run Update Manager to get any changes since the version release. | * This will fully update the operating system so that no known flaws are unpatched. |
| **4** | Run Device Manager | * This will update the operating system for any special wifi or graphics adapter software |
| **5** | Run Software Manager   * select Ubuntu-restricted-extras | * This adds a number of nice applications |
| **6** | Install vlc (optional) | * Adds a nice media player, if not already installed |
| **7** | Run Software Sources | * Allows choice of the fastest download (mirror) site |
| **8** | Install firewall   * issue “Sudo apt-install gufw” * select gufw to ON * on incoming, Deny all, but allow port 8080 (geonetwork) | * Or choose another firewall, but the **g**raphical **U**ncomplicated **F**ire**W**all works well for most situations * A virus checker is not required * Refer to 310-F08 for common Linux commands * Refer to 310-F09 for common vi editing commands |
| **9** | Program Router   * ensure router password is strong * open port 8080 * place the computer in the DMZ |  |