**CrowSoft**

**VMWare user Guide**

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| --- | --- | --- | --- |
| **Version** | **Date** | **Affected Sections(s)** | **Author** |
| 1.0 | 17/3/2019 | Initial Draft | Colin Kenny |
| 1.1 | 18/03/2019 | Amended Connection | Michael McFadden |
| 1.2 | 23/3/2019 | Jenkins/github config | Colin Kenny |
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## Prerequisites

User must have been given access by the admin.

User needs to install FortiClient on their machine

<https://forticlient.com/>

## Connection

Connection Name LYIT-CDC Letterkenny

Remote Gateway fg-vpn.lyit-cdc.net

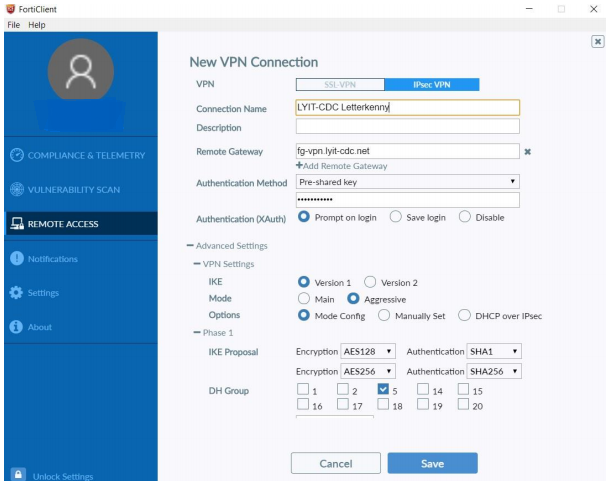
Auth Method Pre-shared Key Link: <pwd\_from \_admin>

CrowSoft IP 172.28.2.46

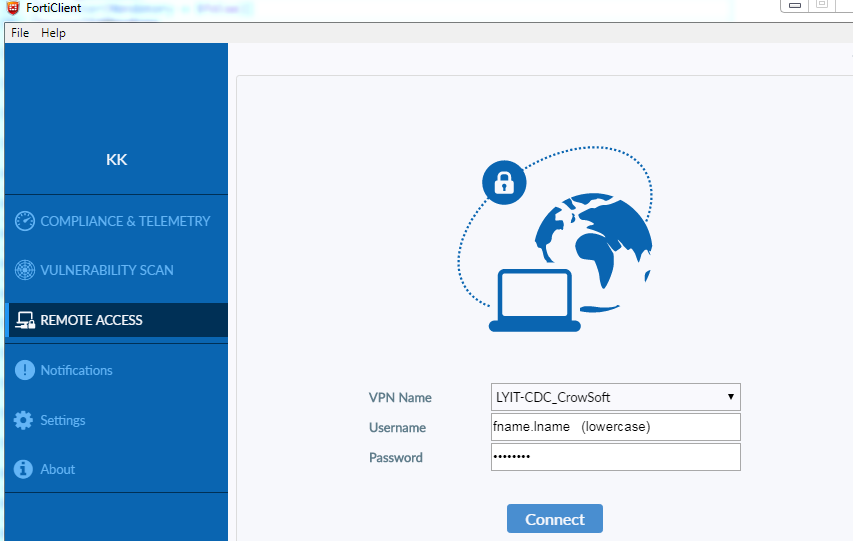
User/password Admin will supply login details

### Set up

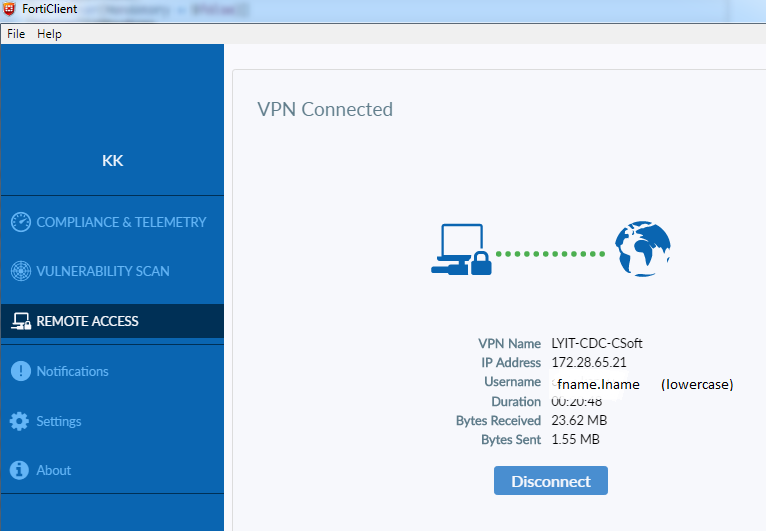
Create a new connection



Connect to LYIT Data Center



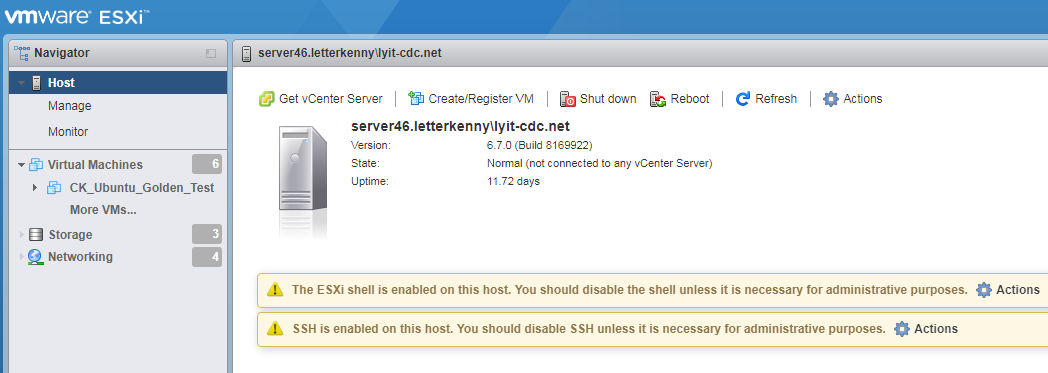
Successful login should display something similar



Enter url and proceed to VMWARE ESXi login entering same login credentials

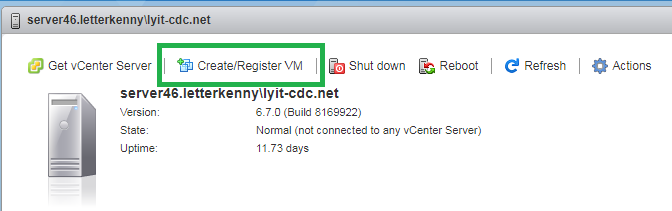
<https://172.28.2.46/>

You are now connected to the LYIT Computing Data Center

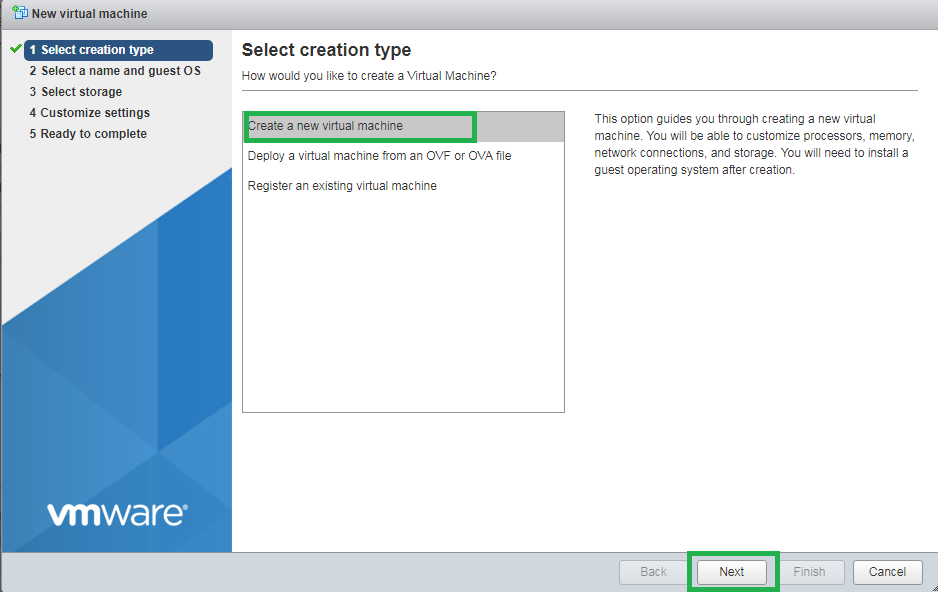


## Creating a VM

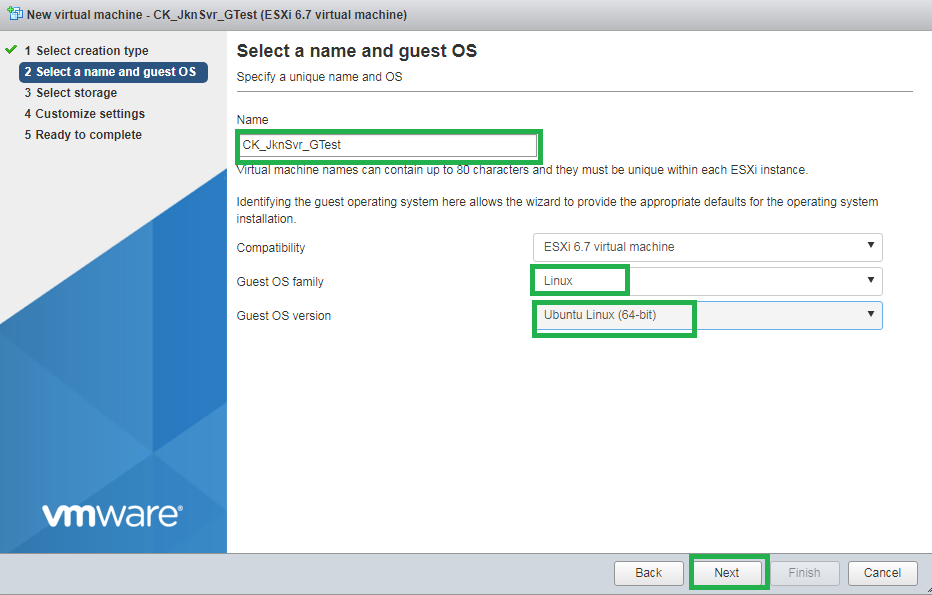
Click on **Create/Register VM** ­­on Host display



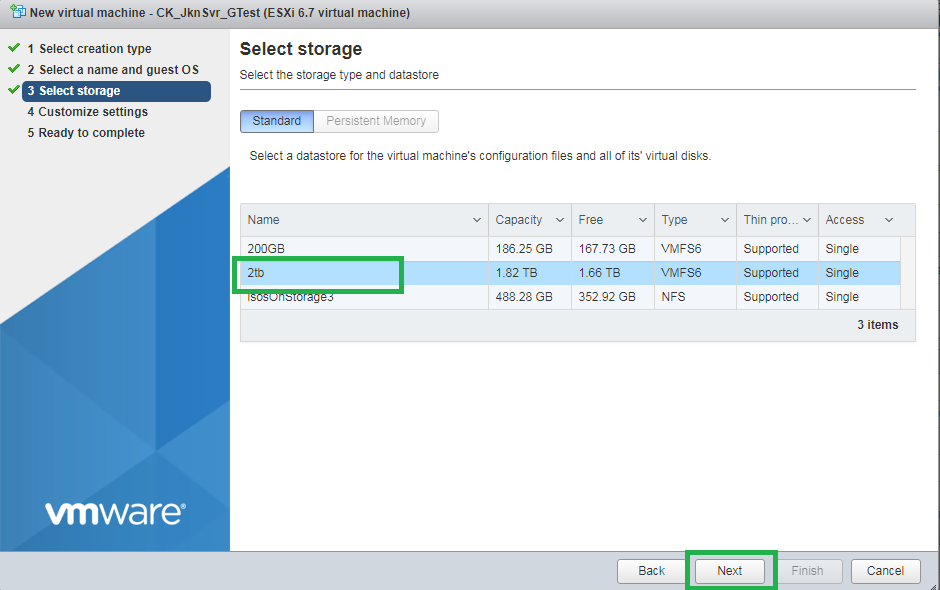
Create a new Virtual machine and click next



Name new VM adding OS & Version you require

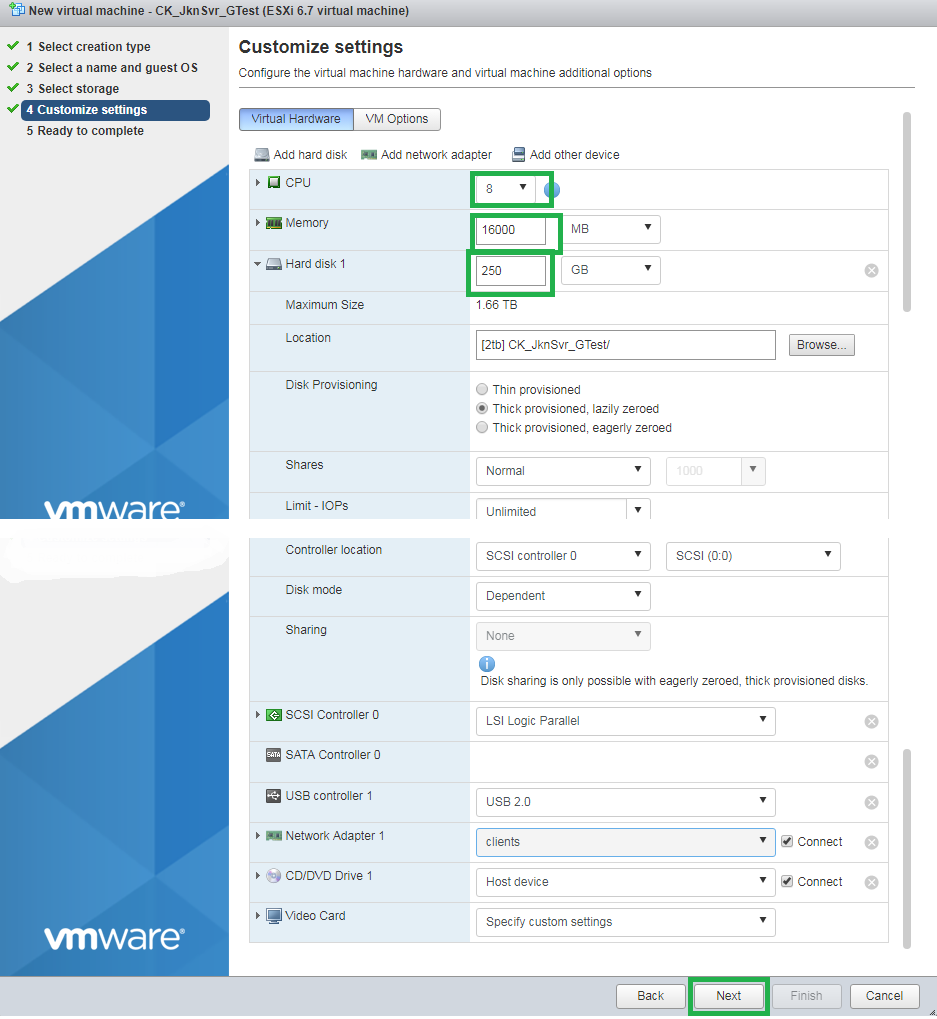


Select Storage option **2tb**



Configure the hardware for the VM click next and Finish

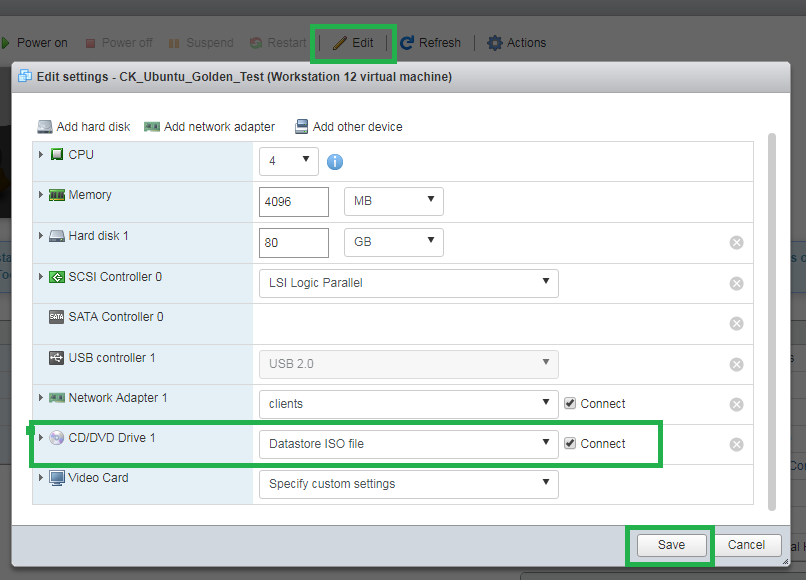
CD/DVD drive can be pointed to Datastore ISO file here (done in next step)



## Installing Operating system

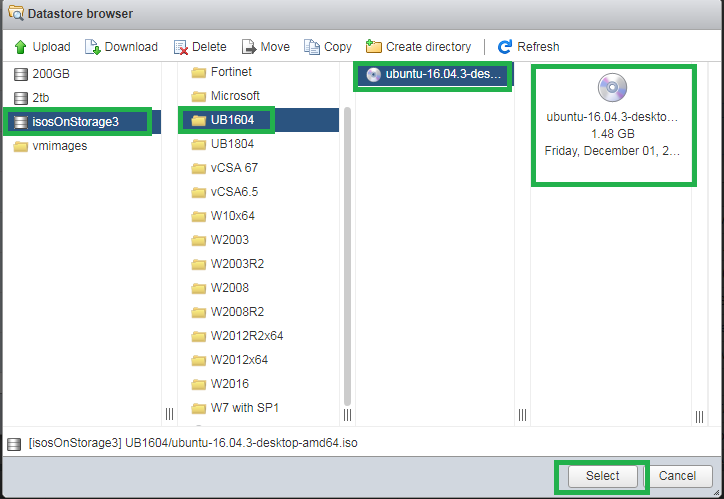
Open newly created VM click on Edit on toolbar at the top

CD/DVD option choose **Datastore ISO file** checking the **Connect** box



Select **isosOnStorage3** choosing you ISO image this example **UB1604**

Click **Select** and **Save**



Power on the VM and proceed to Install OS

Revert CD/DVD setting when install is complete



## Connecting Jenkins to github

To allow Jenkins to connect using SSH client Putty is installed on VM.

Git needs to be installed on the Jenkins server.

* Sudo apt install git

Terminal commands

* sudo apt-get install –y putty
* cd /var/lib/Jenkins - change into Jenkins directory
* sudo su – Jenkins
* mkdir ./.ssh
* cd ./.ssh
* ssh-keygen –t rsa –C “admin@172.28.25.136”
* eval “$(ssh-agent –s)” - returns agent pid
* ssh-add id\_rsa
* cat id\_rsa.pub

**copy generated key into github setting sshkey**

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC/zbZzBy9PzOsn29fLwJUl5PDXplzWgkGBy8Drn8xLCBnw5H8sydii2uwD9+aP4GFegsMEtZG9ogHwr7fUqQWm0YvxCKriKNINgrBXCX9pAwyn3gMw80sSppYEcJsbWlDb42uflKbf80Spea2PfmgoIF9dnvFWauWjt1UNK3rzT6viq49HQ7jBexvA049wZKeVtPnq7LRPUWlQp4OgP+JjYKaOLsUaY7GmLEtmSBxcUbmKnqpOh8d7oAr+DkGblrFifN+zHvjcNRzPi1+r60pMg01ESzI4Z1ecAAIKgY8YOYGqoMhz5cT8dMIdvQBVhOl3oNC85mQjJBQLvNt9jHrd admin@172.28.25.136

* ssh –T [git@github.com](mailto:git@github.com)
* sudo apt-get install openssh-server
* sudo apt install openssh-client
* sudo service ssh status
* sudo nano /etc/ssh/sshd\_config - will display config file

Setting up Firewall and opening ports

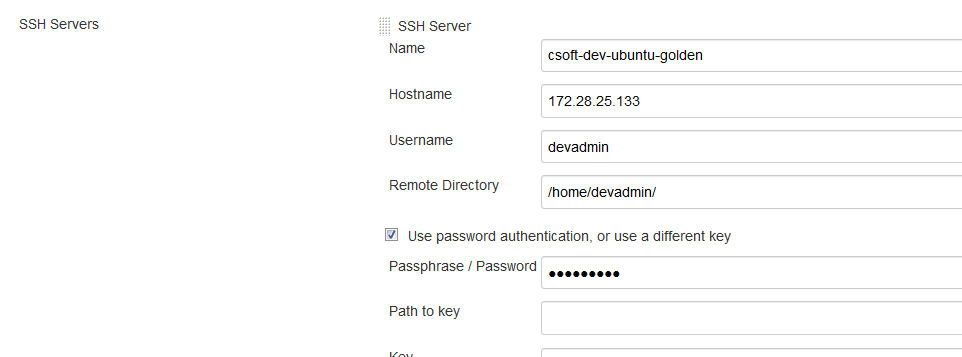
* sudo ufw status
* sudo ufw allow 8080
* sudo ufw allow 22

Web hook needs to be set on github

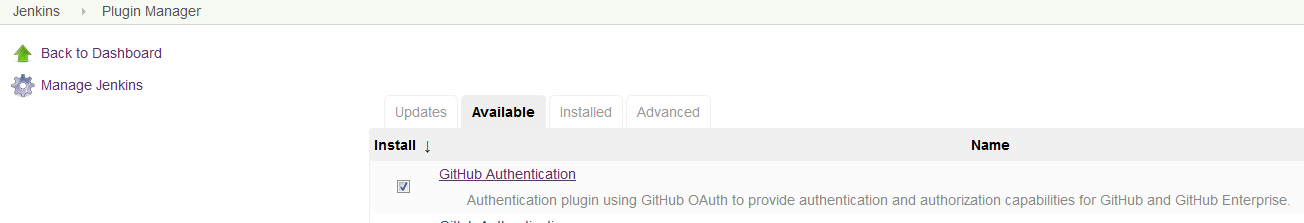
172.28.25.136:8080/github-webhook/

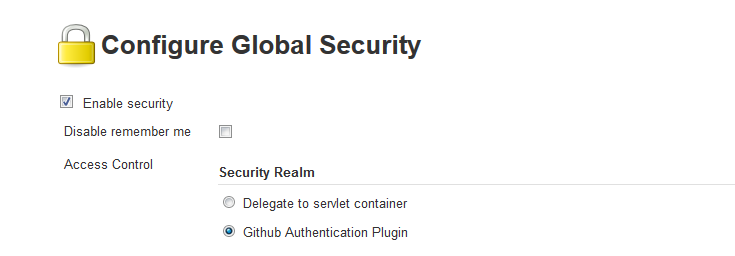
Jenkins

Installed Publish over SSH plugin

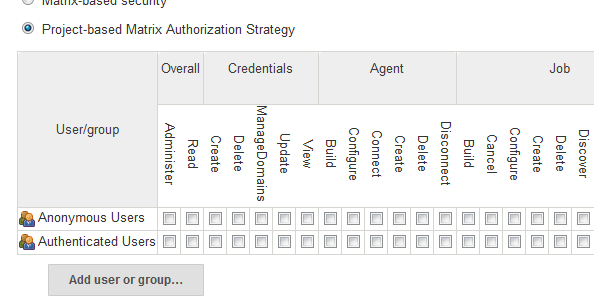


Install GitHub Authentication plugin and restart Jenkins





Authorization: Logged-in users can do anything



Option is available to lock down privileges and create user groups.

## Configure Jenkins job

## Training: