

# **High Availability (HA) Distributed File Storage**

**Document: Installation Document**

**Version 1.0**

**Publication date: 2-MAY-2016**

**Group name: Gryffindor**

**Group Members:**

- ARJITH CHALASANI
- JITENDRA NEELAM
- URMILA JYOTHULA
- CHINNA BALAJI YALLA
- NITISH NAGABHAIRAVA
- PRANEEL REDDY PADALA
- SURYA TEJA BOLLIMPALLI
- SRI GANESH SAI GUNNAM
- SRI KASYAP KAPPAGANTULA
- SIRISHA MANASWINI BHAMIDI
- RAGHUVINAYAK RAO MEDISETTI
- MAHAMMAD SUHAIL ATCHUKATLA

## **Contents:**

- 1. Preface**  
    **Release v1.1 on 2016-04-25**  
    **Release v1.0 on 2016-04-18**
- 2. Glossary and abbreviations**
- 3. General Information**
- 4. Prerequisites**
- 5. Steps to start the software**
- 6. References**

## 1. Preface

The main concept of this project is to develop a secure file storage to the company SecureFile in the form of a distributed file storage system with high availability to the customers.

When a user uploads a file, the file is stored in a randomly chosen server. In this we are creating replicas for the file uploaded by the user and we use file transfer protocol for the transfer of data.

**Service Developer:** Gryffindor

**Customer:** Dragos Ilie

In this document we defined the technical terms and a short note on them, General information, prerequisites, Installation steps and Steps to start the software

- **Release v1.0 on 2016-04-18**

Initial Release

## 2. Glossary and abbreviations

- **HTTP: Hyper Text Transfer Protocol**

It is a transfer of version data formats between server and client

EX: plain txt, hyper txt, video and sound

- **FTPS: File Transfer Protocol Security**

It is an extension for commonly used file transfer protocol(FTP) that adds support for the transfer layer security(TLS) and secure sockets layer (SSL)

- **Message digest: SHA-1**

IT is a crypto graphic hash function which is consider practically impossible to invert *that is to recreate the input data from its hash value alone.*

SHA-1: secure Hash algorithm.SHA-1 produces a 160bit (20 byte) hash value known as a message digest. SHA-1 advancements are SHA-2 and SHA-3

- **GUI: Graphical User Interface**

It is a type of interface which helps in interaction with electronic devices through graphical icon and visual indicators.

- **SQL Server: Structured Query Language Server**

SQL is used to store, query and manipulate data. It is used for manage data in a relational data base.

- **Restful API: Representation State Transfer**

An architectural pattern to improve probability and scalability of a system.

### **3. General Information:**

This software is used for high availability file storage in the form of a distributed file storage system. With the help of this product the user is able to store the files in the provide database. The user can upload, download and transfer the file from one user to another user

### **4. Prerequisites:**

**Operating System:** The software product was developed on 64-bit Ubuntu 14.04 LTS operating system.

- The operating system can be downloaded and installed using the Ubuntu official website given below:

<http://www.ubuntu.com/download/desktop>

- The user is expected to be familiar with the usage of the Ubuntu operating system such as accessing the terminal, internet etc.

User can use the any operating system in order for the software to work.

**Web browser:**

- Ubuntu operating system is provided with Firefox web browser

- Windows operating system is provided with internet explorer  
user can install various web browsers according to their interest

## **5. Steps to start the software:**

- Open the web browser
- Enter the IP 192.168.144.144
- Enter the user name and password in the web site provided by the admin at the time of registration
- Use upload button to upload and download button to download the file

## **References**

- Sommerville, Ian. Software Engineering, 9th ed. Addison-Wesley, 2011