

Appendix

1. Periodic Progress Report (PPR)

Periodic Progress Report : First PPR

Project Subversion In Private Cloud Using Iaas Architecture
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

Openstack instances

What challenge you have faced ?

linux distribution support

What support you need ?

GlT system, hypervisor

Which literature you have referred ?

Online blogs

Periodic Progress Report : Second PPR

Project Subversion In Private Cloud Using Iaas Architecture
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

Created modules for java application that manages synchronization activity on client device

What challenge you have faced ?

Various type of exceptions, threading issues and windows integrations

What support you need ?

System administration authorization for accessing windows resources, 3rd party libraries for handling some JAVA task including libraries from SUN technologies, Apache foundations.

Which literature you have referred ?

Did huge research on fixing issues from various web articles

Periodic Progress Report : Third PPR

Project Subversion In Private Cloud Using Iaas Architecture
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

Created APIs that work on server side that handles merging, storing objects and generating versions if necessary.

What challenge you have faced ?

Real-time merging of uploaded chunks and managing on server blob system.

What support you need ?

No support needed

Which literature you have referred ?

Mainly stackoverflow.com

Periodic Progress Report : Forth PPR

Project Subversion In Private Cloud Using Iaas Architecture
:

Status : Submitted (Freeze)

What Progress you have made in the Project ?

Merging all client and server side modules, associating networking between APis, creating GUI of private server accessibility system.

What challenge you have faced ?

No challenges faced

What support you need ?

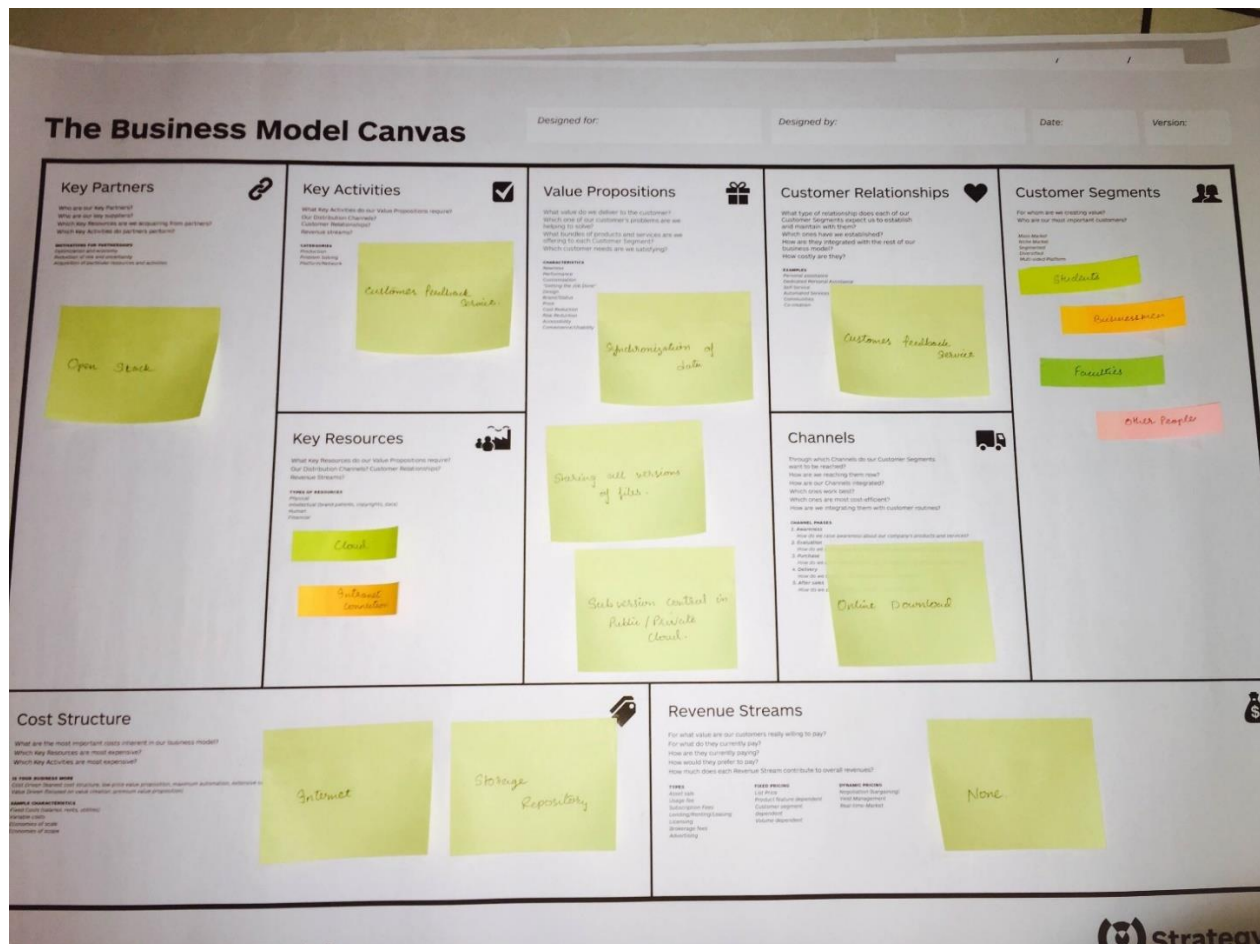
Bootstrap framework for front-end GUI, Material Design plugin that enhances web UI to Google new UX/UI design.

Which literature you have referred ?

Web blogs and QA forums

2. Business Model Canvas (BMC)

Image:



Report:

Key Partners-

- This project is developed by Dhruv Patel, Neel Patel, Dip Dhanesha.

Key Activities-

- Speaking about revenue streams, the application has no revenue system.
- The customers are related by customer feedback system of the software which allows the customers to give their valuable feedback.
- The Software will be distributed by websites, as a distribution channel.

Value Propositions-

- Free of cost.
- Providing private cloud for subversion control through intranet.
- Subversion control in public cloud using internet and private cloud using intranet connections.

Customer Relationships-

- Software contains a customer feedback service, so that the customers can give their valuable feedback and suggestions regarding the application.

Channels-

- The main channel for distributing the software is Official Website.

Customer Segments-

- Businessman- This Software helps businessmen by keep their records up- to-date in day to day business life. in a business system all the records and data are updated frequently, so if any corruption occurs all versions of files can be available through sub versioning system.
- Students- this helps student to divide their load of work by installing this system and parallel working on the same project or solving the same problem at a time.
- Employers- The employers of a company can parallel work on the same file and update the file according to their wish. All the versions of file will be stored in the system with same name but different versions so that user can access the file at any instance.
- Faculties- This software can also be useful for faculties in the school and colleges. In a campus of university the systems are inter connected through LAN connection, so by using subversion system the faculties can access or work on the same file and store different versions with same name for further use.
- General people- This Software can be useful to any group of people working together on a particular file or project to divide the load of work.

Key Resources-

- The main key resources needed here is internet, cloud storage for master repository, OpenStack, intranet connection.

Cost Structure-

- The only cost affected in the application is-
- Internet- for Syncing files in public cloud.

- Cloud Storage- Enough storage space for syncing all versions of files and storing them with respect to time instance.

Revenue Streams-

- As this Software can be used by anyone, revenue streams are not yet decided.

3. Patent Drafting Exercise (PDE)

GTU Innovation Council

Patent Drafting Exercise (PDE)

FORM 1
THE PATENTS ACT 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT

(FOR OFFICE USE ONLY)

Application No:

Filing Date:

Amount of Fee paid:

CBR No: _____

1. Applicant(s) :

ID	Name	Nationality	Address	Mobile No.	Email
1	Dhruv Rameshkumar Patel	Indian	Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research, Gandhinagar Gujarat Technological University.	8866124621	dhruv.p1110@g mail.com
2	Neel Bhaveshbhai Patel	Indian	Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research, Gandhinagar Gujarat Technological University.	9033035441	patelneel500@g mail.com
3	Dip Hridaynath Dhanesha	Indian	Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research, Gandhinagar Gujarat Technological University.	9510465175	dip.dhanesha@g mail.com

2. Inventor(s):

Note : This is just a mock Patent Drafting Exercise (PDE) for semester 8, BE students of GTU.
 These documents are not to be submitted with any patent office.

ID	Name	Nationality	Address	Mobile No.	Email
1	Dhruv Rameshkumar Patel	Indian	Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research, Gandhinagar Gujarat Technological University.	8866124621	dhruv.p1110@gmail.com
2	Neel Bhaveshbhai Patel	Indian	Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research, Gandhinagar Gujarat Technological University.	9033035441	patelneel500@gmail.com
3	Dip Hridaynath Dhanesha	Indian	Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research, Gandhinagar Gujarat Technological University.	9510465175	dip.dhanesha@gmail.com

3. Title of Invention/Project:

Subversion In Private Cloud Using IaaS Architecture

4. Address for correspondence of applicant/authorized patent agent in india

Name: Dhruv Rameshkumar Patel

Address: Information Technology , Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research, Gandhinagar , Gujarat Technological University.

Mobile: 8866124621

Email ID: dhruv.p1110@gmail.com

5. Priority particulars of the application(S) filed in convention country

Country	Application No.	Filing Date	Name of the Applicant	Title of the Invention
N/A	N/A	N/A	N/A	N/A

6. Particulars for filing patent co-operation treaty (pct) national phase Application

International application number	International filing date as allotted by the receiving office
N/A	N/A

7. Particulars for filing divisional application

Original(First) Application Number	Date of filing of Original (first) application
N/A	N/A

8. Particulars for filing patent of addition

Original(First) Application Number	Date of filing of Original (first) application
N/A	N/A

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We, the above named inventor(s) is/are true & first inventor(s) for this invention and declare that the applicant(s).

herein is/are my/our assignee or legal representative.

Date : 29 - April - 2015

Name

Signature & Date

1 Dhruv Rameshkumar
Patel

2 Neel Bhaveshbhai
Patel

3 Dip Hridaynath
Dhanesha

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant (s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative. applicant(s)

(iii) Declaration by the applicant(s)

I/We, the applicant(s) hereby declare(s) that:-

- ☒ I am/We in possession of the above mentioned invention.
- ☒ The provisional/complete specification relating to the invention is filed with this application.
- ☒ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- ☒ There is no lawful ground of objection to the grant of the patent to me/us.
- ☒ I am/we are the assignee or the legal representative of true & first inventors.
- ☒ The application or each of the application, particulars of each are given in the para 5 was the first application in the convention country/countries in respect of my/our invention.
- ☒ The application or each of the application, particulars of each are given in the para 5 was the first application in the convention country/countries in respect of my/our invention.
- ☒ I/we claim the priority from the above mentioned applications(s) filed in the convention country/countries & state that no application for protection in respect of invention had been made in a convention country before that date by me/us or by any person
- ☒ My/Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in para 6
- ☒ The application is divided out of my/our application(s) particulars of which are given in para 7 and pray that this application may be treated as deemed to have been filed on _____ under section 16 of the Act.
- ☒ The said invention is an improvement in or modification of the invention particulars of which are given in para 8.

10. Following are the attachments with the application:

- ☒ (a) Provisional specification/Complete specification
- ☒ (b) Complete specification (In confirmation with the international application) / as amended before international Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of pages.. claims.....
- ☒ (c) Drawings (In confirmation with the international application)/as amended before the international Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of sheets....
- ☒ (d) Priority documents
- ☒ (e) Translations of priority documents/specification/international search reports
- ☒ (f) Statement and undertaking on Form 3
- ☒ (g) Power of Authority
- ☒ (h) Declaration of inventorship on Form 5
- ☒ (i) Sequence listing in electronic Form
- ☒ (j) Fees Rs. XXX in Cash /Cheque/Bank Draft bearing No. XXX Date: XXX o Bank.

I/We hereby declare that to the best of my /our knowledge, information and belief the fact and matters stated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 29 day of April , 2015

Name

Signature & Date

1 Dhruv Rameshkumar
Patel

2 Neel Bhaveshbhai
Patel

3 Dip Hridaynath
Dhanesha



FORM 2
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
PROVISIONAL SPECIFICATION

1. Title of the project/invention :

Subversion In Private Cloud Using Iaas Architecture

2. Applicant(s) :

Dhruv Rameshkumar Patel , (Indian)

**Address :Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research,
Gandhinagar Gujarat Technological University.**

Neel Bhaveshbhai Patel , (Indian)

**Address :Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research,
Gandhinagar Gujarat Technological University.**

Dip Hridaynath Dhanesha , (Indian)

**Address :Information Technology Leelaben Dashrathbhai Ramdas Patel Institute Of Technology & Research,
Gandhinagar Gujarat Technological University.**

3. Preamble to the description :

The following specification describes the invention.

4. Description :

a. Field of Application / Project / Invention :

Subversion

b. Prior Art / Background of the Invention / References :

Cloud based system mainly working on JAVA and PHP

c. Summary of the Invention/Project :

This system provides subversioning in private cloud using IaaS infrastructure. It enables subversioning in multiple devices using intranet connection. If we want subversioning between more than two private cloud then it is possible through internet.

d. Objects of the Invention/Project :

By using subversion technology every time user saves the file with same name, the system will make new version of the file in master repository and we can get any previously created data at any instance of time. This all are done using IaaS (Infrastructure as a Service) architecture. User machines can access all centrally stored data and if any one makes a change, new version is created and it will be committed to master branch.

e. Drawing(s) :

24206_1_Activity for Private Cloud

24206_2_Subversion in master repository

24206_3_SyncSystem

24206_4_Use case private cloud

24206_5_Whole architecture - BuddsCloud

f. Description of the Invention

Subversion is a tool that enables version control for any kind of files. In normal scenario if user saves the file with the same name that he/she may save before in same directory, it will overwrite by new data and old file will lost. Now if we want old file, we couldn't get it. But by using subversion technology every time user saves the file with same name, system will make new version of file in master repository and we can get any previously created data in any instance of time. This all are done using SaaS (Software as a Service) architecture. There is a one center repository system that keeps all versions of files and their Meta data of all clients connected in intranet connection. By using intranet connection, there is no need of internet connectivity. Just all clients must be connected in single network topology. So all client machines may access all center stored data and if any one makes a change, new version is created and it will committed to master branch. This all are done using private cloud platform based on IaaS (Infrastructure as a Service) architecture. If we want to share files among 2 intranet network, only at that time internet connectivity is needed and it is done by online web application.

g. Examples

h. Unique Features of the Project

We provide subversion system using intranet(i.e. without internet) technology.

5. Date & Signature :

Date : 23 - May - 2015

Sign and Date
Dhruv Rameshkumar
Patel

Sign and Date
Neel Bhaveshbhai
Patel

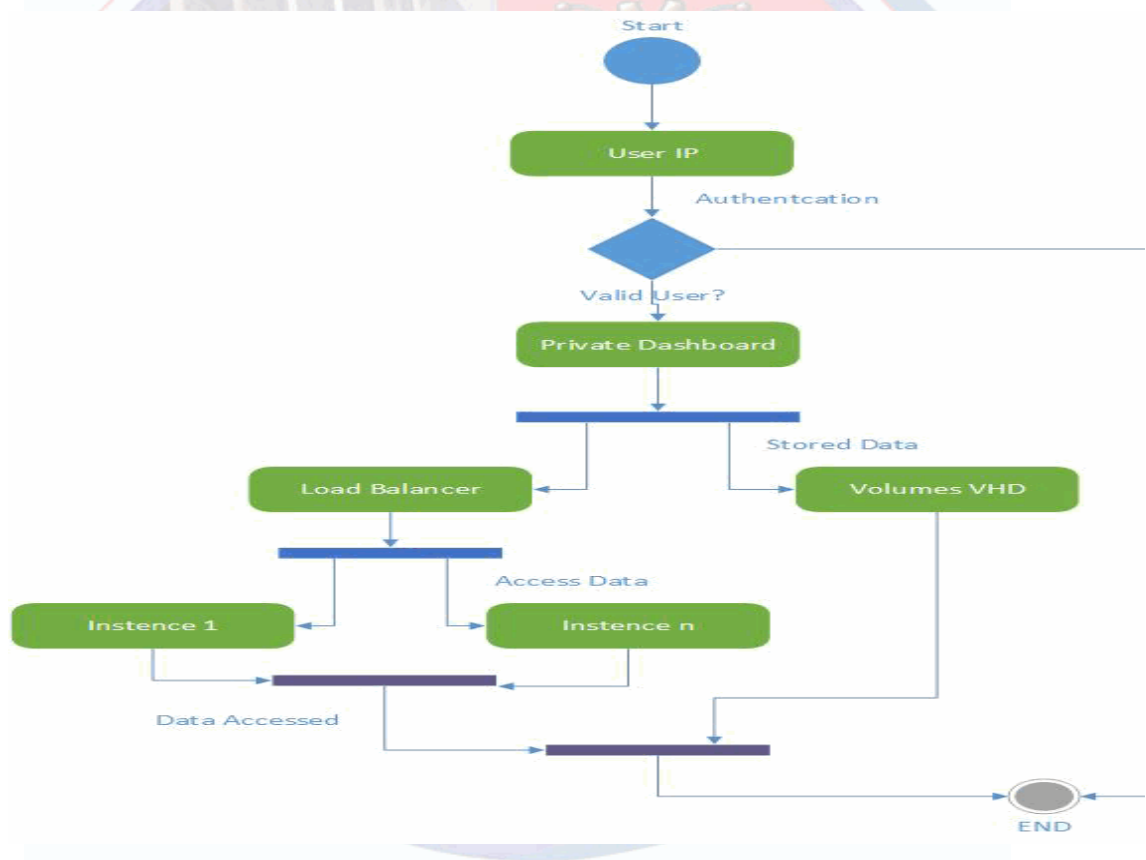
Sign and Date
Dip Hridaynath
Dhanesha

6. Abstract of the project / invention :

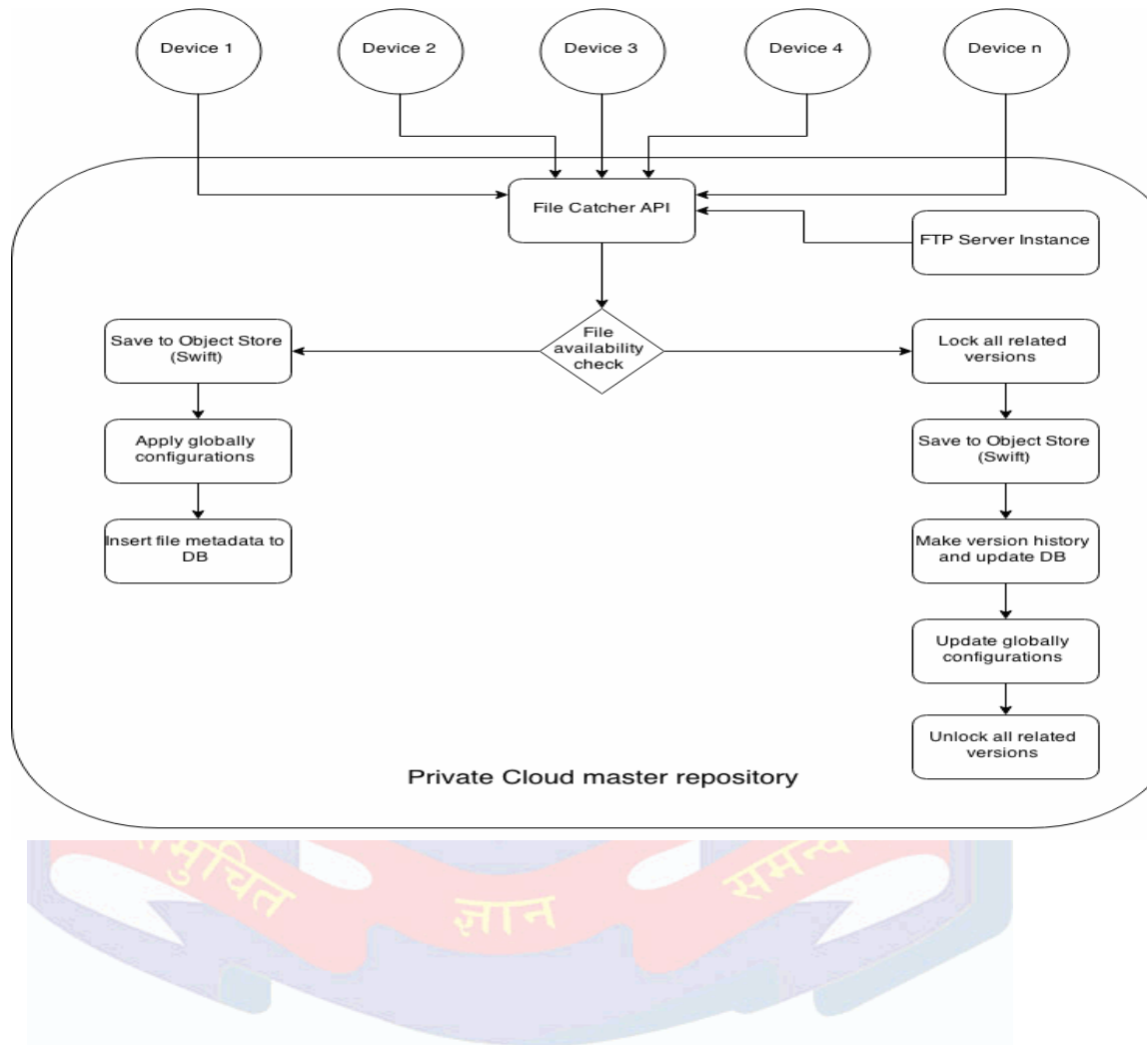
This system provides subversioning in private cloud using IaaS infrastructure. It enables subversioning in multiple devices using intranet connection. If we want subversioning between more than two private cloud then it is possible through internet. Subversion is a tool that enables version control for all kind of files. Using subversion technology every time user saves the file with same name, the system will make new version of the file in master repository and we can get any previously created data at any instance of time.

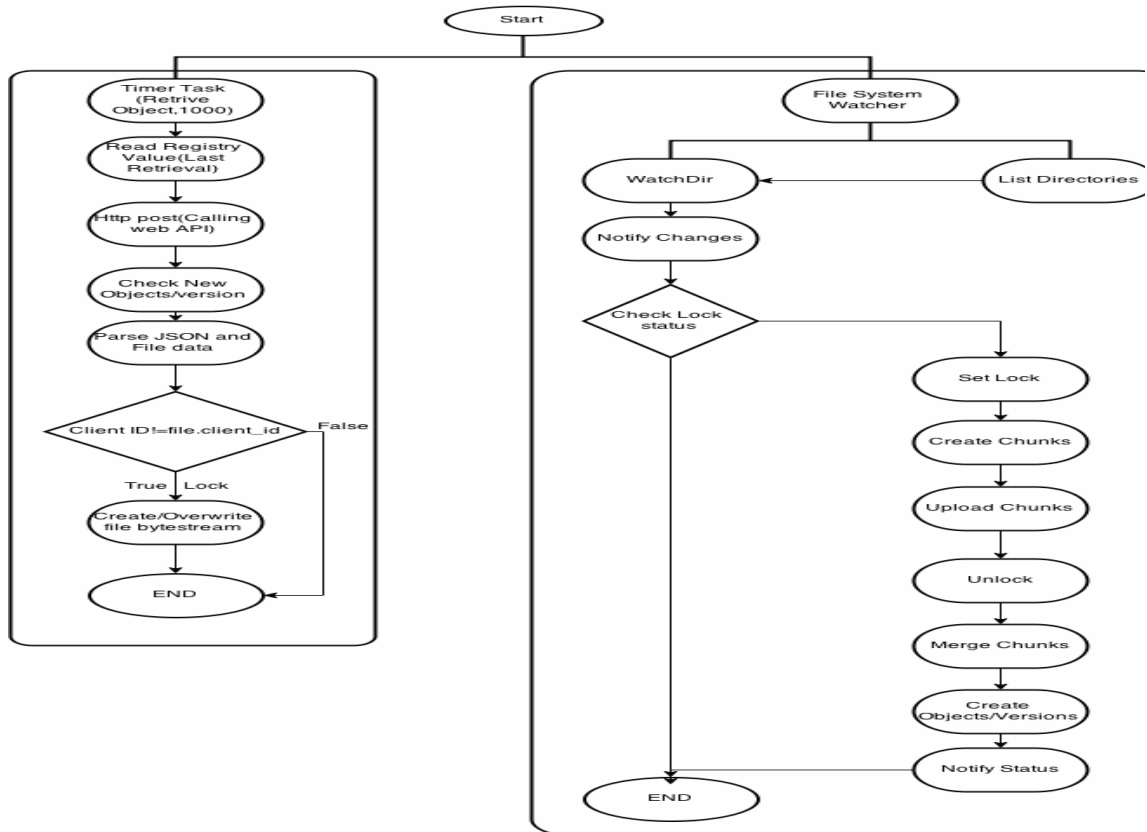
Drawing Attachments :

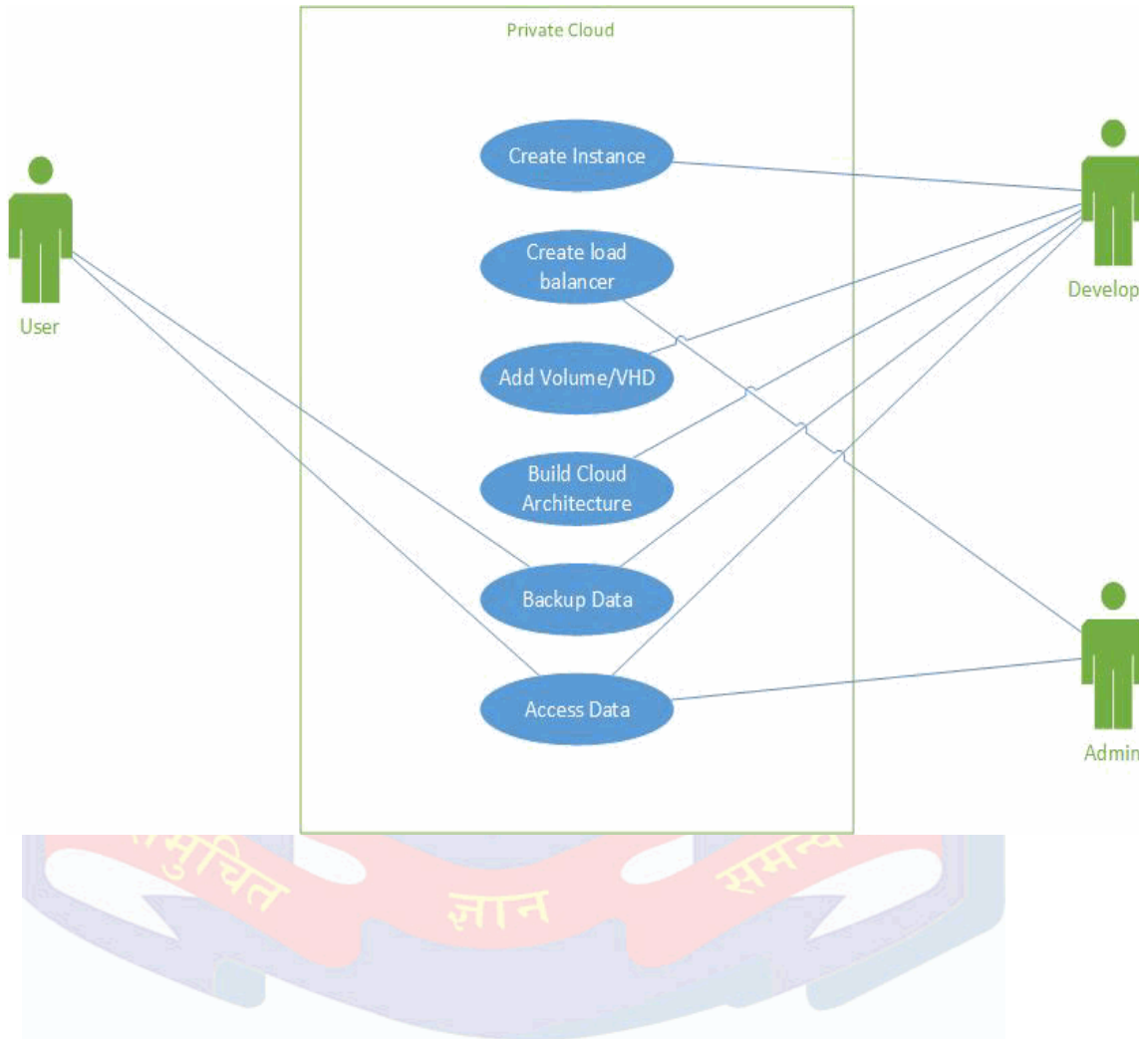
24206_1_Activity for Private Cloud



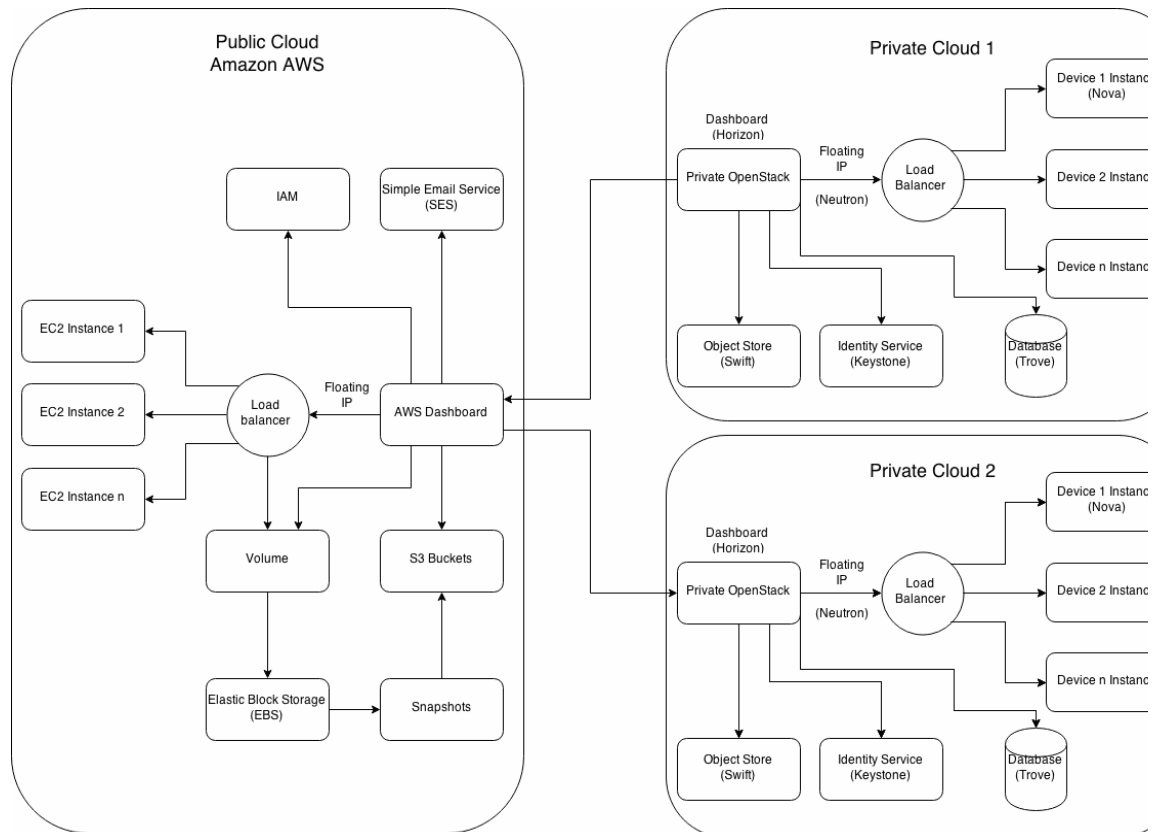
24206_2_Subversion in master repository







24206_5_Whole architecture - BuddsCloud



FORM 3
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8

1. Declaration :

I/We, Dhruv Rameshkumar Patel ,
 Neel Bhaveshbhai Patel ,
 Dip Hridaynath Dhanesha ,

2. Name, Address and Nationality of the joint Applicant :

Dhruv Rameshkumar Patel (Indian)

**Address : Information Technology Leelaben Dashrathbhai Ramdas
 Institute Of Technology & Research, Gandhinagar Gujarat Technol
 University.**

Neel Bhaveshbhai Patel (Indian)

**Address : Information Technology Leelaben Dashrathbhai Ramdas
 Institute Of Technology & Research, Gandhinagar Gujarat Technol
 University.**

Dip Hridaynath Dhanesha (Indian)

**Address : Information Technology Leelaben Dashrathbhai Ramdas
 Institute Of Technology & Research, Gandhinagar Gujarat Technol
 University.**

Here by declare:

- (i) that I/We have not made any application for the same/substantially the same invention outside India.
 (ii) that the right in the application(s) has/have been assigned to,

<i>Name of the Country</i>	<i>Date of Application</i>	<i>Application Number</i>	<i>Status of the Application</i>	<i>Date of Publication</i>	<i>Date of Grant</i>
N/A	N/A	N/A	N/A	N/A	N/A

- (iii) that I/We undertake that up to the date of grant of patent by the Controller , I/We would keep him inform in writing the details regarding corresponding application(s) for patents filed outside India within 3 months from the date of filing of such application.

Dated this 29 day of April , 2015.

3. Signature of Applicants :

Sign and Date
Dhruv Rameshkumar
Patel

Sign and Date
Neel Bhaveshbhai Patel

Sign and Date
Dip Hridaynath Dhanesha

To
The Controller of Patent
The Patent Office, at **Mumbai**.

