

# Dashboard Technical Specifications

## Contents

- 1 Introduction
  - ◆ 1.1 Use Cases
  - ◆ 1.2 User Communities
  - ◆ 1.3 What is the Dolcera Dashboard?
  - ◆ 1.4 Workflow
- 2 Deployment Architecture
- 3 Hardware Requirements
  - ◆ 3.1 Web Application Server
  - ◆ 3.2 Database Server
  - ◆ 3.3 Network
  - ◆ 3.4 Client Device
- 4 Software Requirements
  - ◆ 4.1 Web Application Server
  - ◆ 4.2 Database Server
  - ◆ 4.3 Client
- 5 Installation and Setup
  - ◆ 5.1 Hardware Installation
  - ◆ 5.2 Software Installation
    - ◇ 5.2.1 Database Server
    - ◇ 5.2.2 Web Application Server
  - ◆ 5.3 Setting up the Environment
  - ◆ 5.4 Best Practices
    - ◇ 5.4.1 Server Setup
    - ◇ 5.4.2 User Management

## Introduction

The Dolcera Dashboard is a web application for managing and organizing patents, product information, and scientific literature. This application is used for a variety of purposes including patent review/clearance, and by different enterprise users including attorneys, licensing professionals, engineers, and executives.

## Use Cases

The typical use cases for the Dolcera Dashboard are as follows:

1. Freedom-to-practice or clearance search
2. Patent portfolio analysis
3. Competitive intelligence
4. Patent landscaping
5. Patent-to-product mapping
6. Patent-to-standard mapping

## User Communities

The typical users of the Dolcera Dashboard include:

1. Patent attorneys
2. Patent managers
3. Patent searchers
4. Engineers, scientists and inventors
5. Licensing and business development professionals
6. Senior executives

## What is the Dolcera Dashboard?

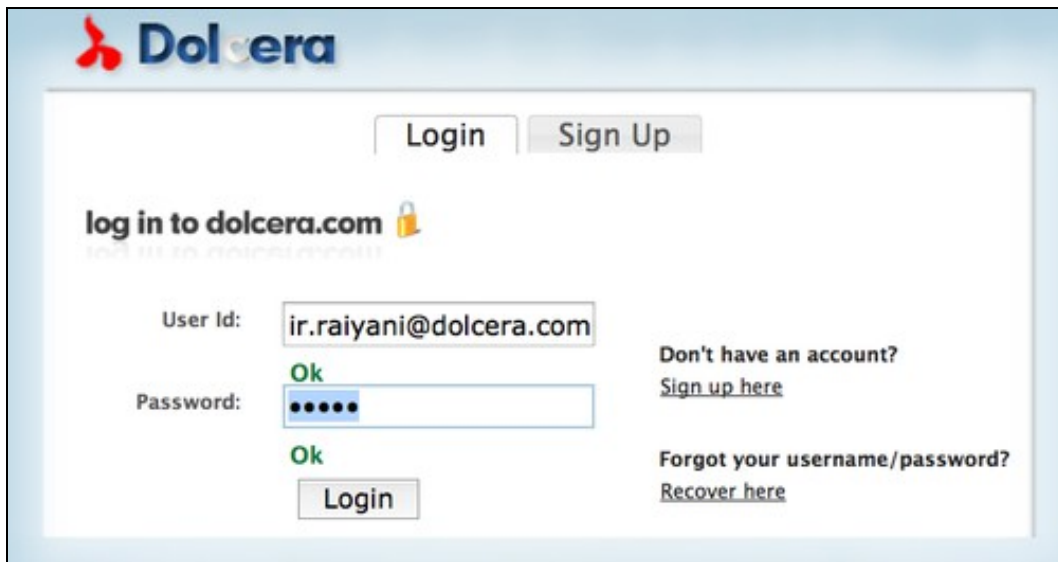
The Dolcera Dashboard is an interactive web application used to:

1. Organize large quantities of patent, scientific and product literature
2. Manage patent review workflows
3. Assist in collaboration with colleagues and partners around the world
4. Help technology teams, patent counsels, and key decision makers in monitoring the competitive landscaping and finding key partners

## Workflow

A typical workflow is described below:

1. Log into the system



**Dolcera**

Login Sign Up

log in to dolcera.com

User Id:

Password:

Ok

Login

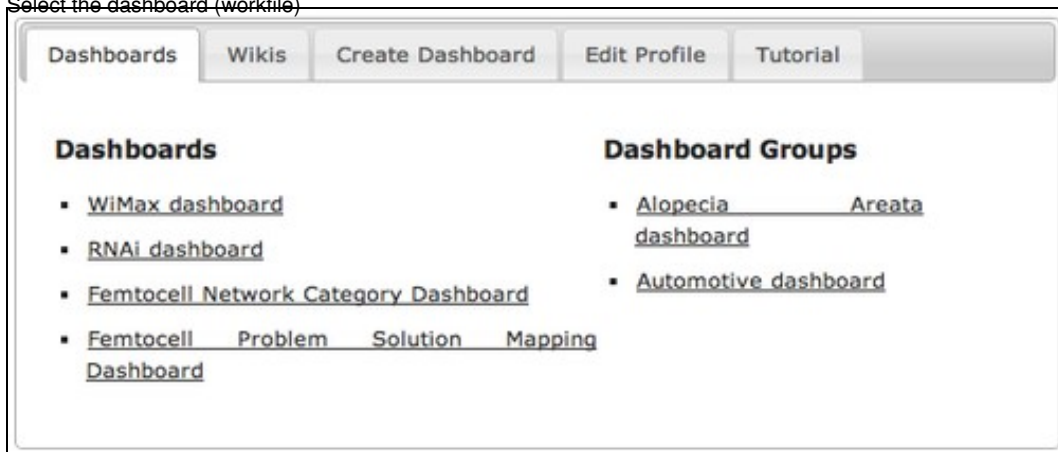
Don't have an account?  
[Sign up here](#)

Forgot your username/password?  
[Recover here](#)



Login screen

2. Select the dashboard (workfile)



Dashboards Wikis Create Dashboard Edit Profile Tutorial

**Dashboards**

- [WiMax dashboard](#)
- [RNAi dashboard](#)
- [Femtocell Network Category Dashboard](#)
- [Femtocell Problem Solution Mapping Dashboard](#)

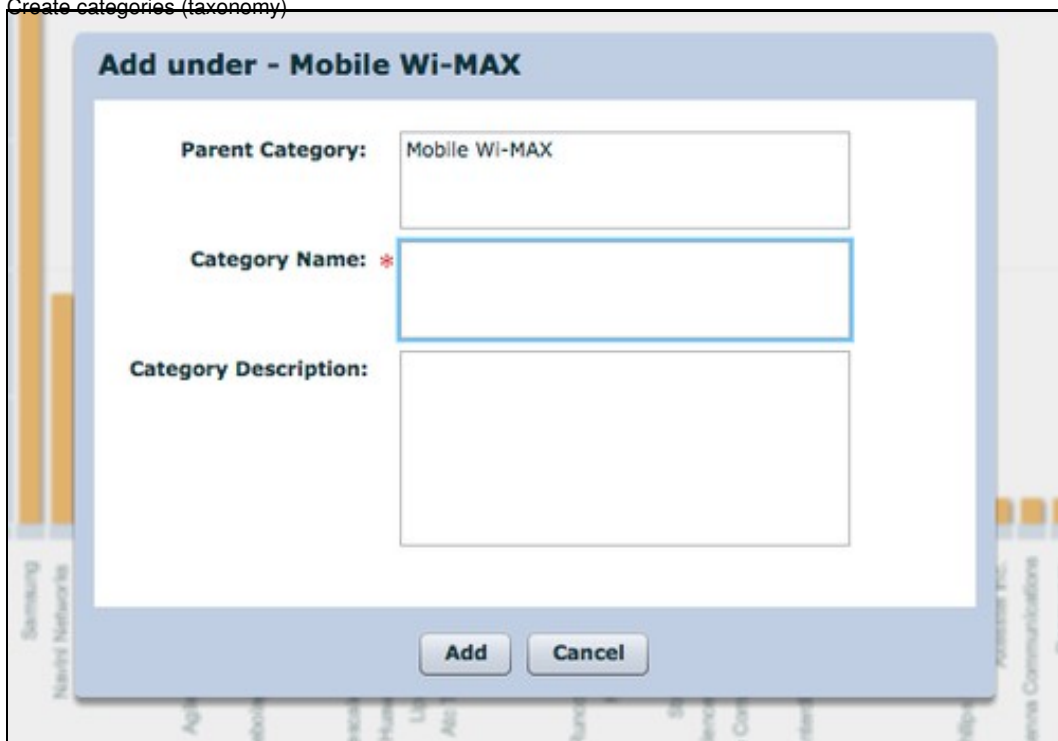
**Dashboard Groups**

- [Alopecia Areata dashboard](#)
- [Automotive dashboard](#)



Select dashboard

3. Create categories (taxonomy)



**Add under - Mobile Wi-MAX**

Parent Category:

Category Name: \*

Category Description:

Add Cancel



Add taxonomy categories

4. Add patents

**Add patents by Pub Num:**

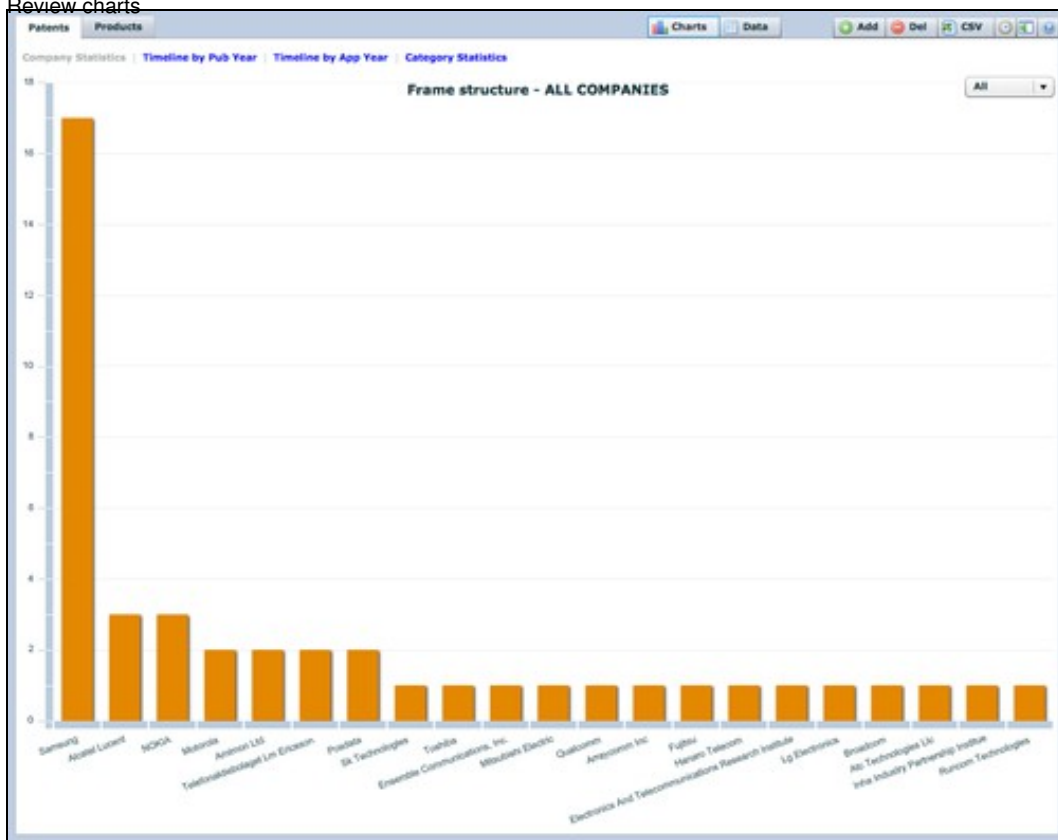
US4567890  
 US20070155431  
 US20070206688  
 WO2007098977  
 US20070183522

Lookup

<input type="checkbox"/>	Pub Num	Title	Assignee
<input type="checkbox"/>	US4567890A	Pair of bipolar diathermy for	(No Company)
<input type="checkbox"/>	US20070155431A1	METHOD OF SEMIDYNAMIC	ALCATEL LUCENT
<input type="checkbox"/>	US20070206688A1	METHOD FOR PERFORMING	ALCATEL LUCENT
<input type="checkbox"/>	WO2007098977A1	METHOD FOR PERFORMING	ALCATEL LUCENT
<input type="checkbox"/>	US20070183522A1	Measuring interference and	BECEEM COMMUNICATIONS INC.

Add Selected    Clear All    Cancel

5. Add patents  
Review charts



6. Review patents

Publication	Title	Assignee	Pub	App	R
US20070155431A1	Method of semidynamic centralized interference coordination for cellular systems	Alcatel Lucent	2007	2007	
US20070206688A1	Method for performing active cancellation of inter-cell interference in a cellular wireless access system	Alcatel Lucent	2007	2007	
WO2007098977A1	Method for performing resource allocation in a radio communication system	Alcatel Lucent	2007	2007	
US20070171304A1	Method and apparatus for using the video blanking period for the maintenance of a modem that is used	Amimon Ltd.	2007	2007	
US20070133496A1	Resource allocation in a wireless network	Arraycomm Inc	2007	2007	
WO2007084682A1	Systems and methods for forward link closed loop beamforming	Atc Technolog	2007	2007	
US20070183522A1	Measuring interference and noise power using non-content burst periods	Beceem Comm	2007	2007	
US20070140209A1	Methods for the synchronization of multiple base stations in a wireless communication system	Broadcom Cor	2007	2007	
US20070133386A1	Downlink signal configuring method and device in mobile communication system, and synchronization	Electronics And	2007	2003	
US20070133481A1	Framing for an adaptive modulation communication system	Ensemble Com	2007	2007	
US20070173198A1	Method and system for allocating resource in a communication system	Fujitsu Limited	2007	2007	
US20070177627A1	Processors for network communications	Fujitsu Limited	2007	2007	
US20070189047A1	Power control method for uplink in mobile communication and apparatus thereof	Hanaro Telecon	2007	2007	
US20070207737A1	Explicit outband signaling method in a wireless network supporting cognitive radio technology	Inha Industry I	2007	2007	

**US20070155431A1**  
**METHOD OF SEMIDYNAMIC CENTRALIZED INTERFERENCE COORDINATION FOR CELLULAR SYSTEMS**  
 Priority Date (y-m-d): 2006-01-05  
 First Inventor: MUNZNER ROLAND DE  
 US Class (primary): 455560  
 IPC Class (primary): H04B00138

**Abstract:**  
 A radio access network, wherein the RAN comprises a plurality of base stations and a base station controller, wherein the BSC allocates radio resources (space, time, frequency, energy) of a resource domain, and wherein each base station may handle within a corresponding base station area a plurality of subscriber stations, is characterized in that each base station area is statically divided into a plurality of spatial subsectors, that a subset of the time-frequency domain of the resource

**Claims:**  
 1. Method for operating a radio access network, wherein the RAN comprises a plurality of base stations and a base station controller, wherein the base station controller allocates radio resources (space, time, frequency, energy) of a resource domain, and wherein each base station may handle within a corresponding base station area a plurality of subscriber stations, wherein each base station area is statically divided into a plurality of spatial subsectors, that a subset of the time-frequency domain of the resource domain is allocated to each of the subsectors, that the base stations collect traffic information for each subsector belonging to their respective base station area, the traffic information comprising interference conflict scenarios and traffic load, that the base stations summarize the traffic information for each subsector belonging to their respective base station area, that the base stations provide the base station controller with said summarized traffic information for each subsector belonging to their respective base station area regularly, in particular periodically, that the base station controller analyses the summarized traffic information for each subsector and re-allocates subsets of the time-frequency domain to the subsectors regularly, in particular periodically, in

- 7. Review patents
- Search patents

**Data Filters**

connection

- Mobile WI-MAX (265)
  - Connectivity (34)
  - Router/Gateway (25)
  - Base station (55)
  - Subscriber station (37)
  - Chipset (19)
  - Protocol (96)
  - Frame structure (45)**
  - Frame (20)

- 8. Search patents
- Tag patents

**Tags:** wireless, counter

- 9. Tag patents
- Add review notes for patents

**Notes:** Synchronization of base stations

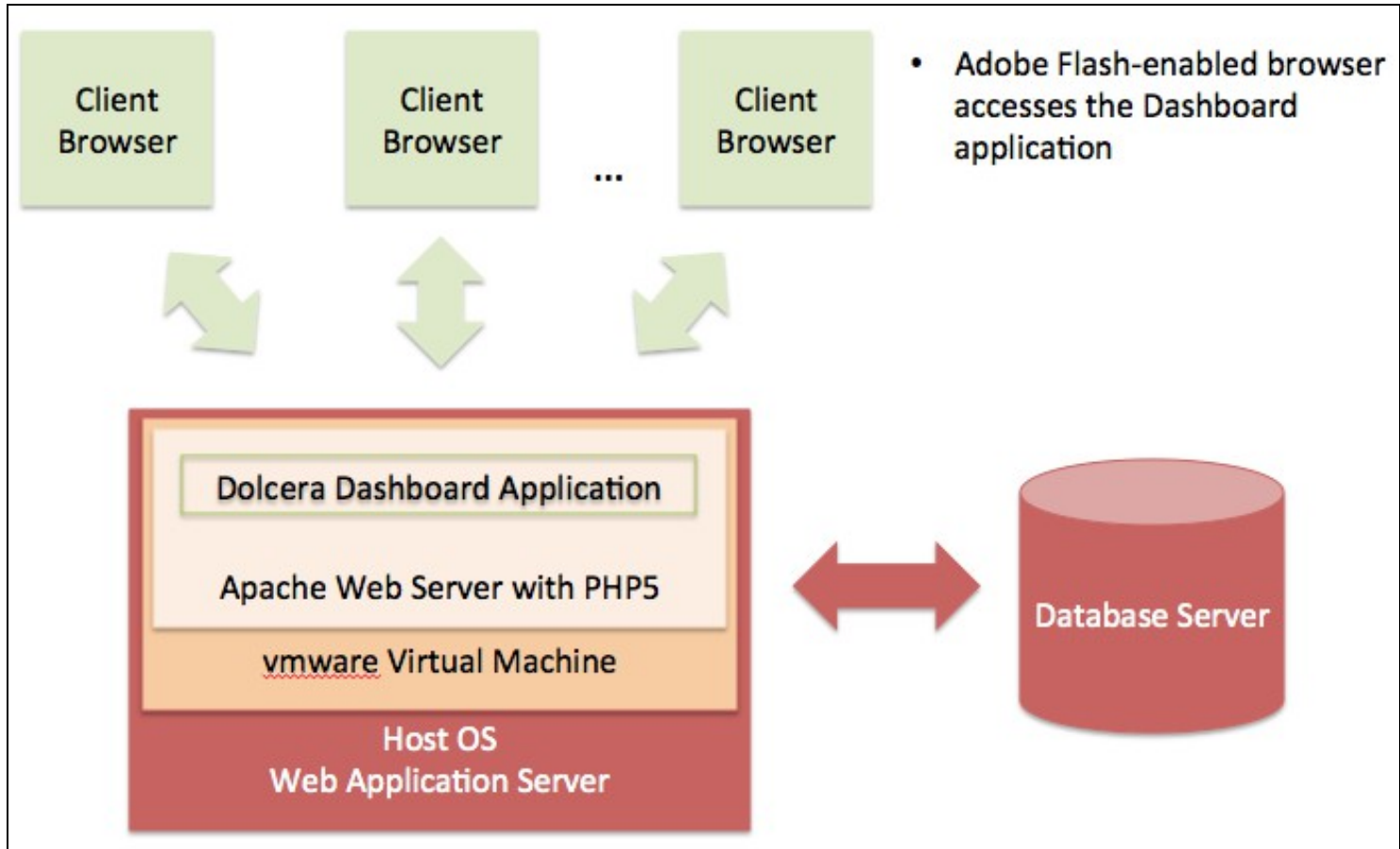
- 10. Patent notes
- Export patents and analysis

Add Del CSV

Assignee	Pub	App	R
Broadcom Cor	2007	2007	

Export Data

## Deployment Architecture



Dolcera Dashboard Deployment Architecture

### Hardware Requirements

As seen in the deployment architecture diagram, the typical deployment environment for the Dolcera Dashboard application consists of two main servers:

1. Server running the Dolcera Dashboard web application
2. Database server running PostgreSQL or Oracle database running the dashboard database

### Web Application Server

The Dolcera Dashboard requires the following application server configuration:

- 64-bit server
- 4-core processor with a minimum speed of 2 GHz
- Ethernet card
- Minimum memory configuration: 8GB DDR3 RAM
- Minimum disk requirement: 2TB hard disk

### Database Server

- Per client database server standards

### Network

- The bandwidth to client devices offered by the web application server should be at least 10Mbps
- The connection between the web application server and the database server should be at least 100Mbps
- A continuous network connection is required between the user's device and the web application server, and between the web application server and the database server

### Client Device

- The client application runs on any device that supports an Adobe Flash-enabled web browser
- A desktop or laptop computer with 1GB of available memory, any operating system (e.g. Windows, Linux, Mac OS) and a high-speed Internet connection will be capable of running the Dolcera Dashboard application
- A 1Mbps or faster network connection to the server will be sufficient to run the application

### Software Requirements

The Dolcera Dashboard application is a PHP web application that runs on the Apache web server with PHP5, and connects to a PostgreSQL or Oracle database. The client application is a Flash application running inside the web browser.



## Web Application Server

- Operating system: Linux
- Web server: Apache with support for PHP5

The web application server typically runs inside a vmware Virtual Machine running on any host operating system supported by vmware.

## Database Server

- Database: PostgreSQL 8 or higher; or Oracle 10 or higher

## Client

- Operating system: Windows, Linux, Mac OS (or others)
- Web browser: Internet Explorer 6 or higher, Firefox, Chrome, Safari, Opera
- Adobe Flash Player 10 or higher

## Installation and Setup

The server hardware and software installation steps are described below:

### Hardware Installation

The server landscape can be configured with the database and web application running on the same server; alternately, the two can run on different servers.

1. Set up a server with the specifications described above
2. Ensure the operating system has the latest updates applied to it
3. Ensure that both the web server and the database server (if separate) are connected to the network

### Software Installation

#### Database Server

The following steps should be performed by a database administrator:

1. Configure the database server with the appropriate database version (specified in the [Software Requirements](#) section)
2. Download the Dolcera Dashboard database setup files (Dolcera\_Dashboard\_Database\_vxxx.zip) to the database server from the location provided by the Dolcera representative
3. Unzip the files in a folder of your choice (e.g. /tmp folder)
4. Create a new database named *dolcera*
5. Run the file *dolcera\_dashboard\_setup.sql* to create the tables and other database objects: the setup script will also populate the master data for the database, and create a *dolcerauser* with privileges to change the data in the database, but not to alter the database; this user account will be used by the web application

#### Web Application Server

1. Download the Dolcera Dashboard installation package (Dolcera\_Dashboard\_vxxx.zip) to the web application server from the location provided by the Dolcera representative
2. Unzip the folder in any directory (e.g. /tmp)
3. Move the *dolcera\_dashboard\_vm* folder to the virtual machines folder on the web application server (e.g. /var/lib/vmware)
4. Create a new vmware virtual machine instance for the Dolcera Dashboard
5. Point the new vmware virtual machine instance to the *dolcera\_dashboard\_vm* folder
6. Set the network preferences for the virtual machine to bridged networking
7. Launch the new virtual machine
8. Log in with the root password supplied by the Dolcera representative
9. Change the database IP address setting as appropriate in the */srv/httpd/htdocs/dashboard/config/config.ini* file
10. Assign a fixed IP address for the vmware instance and note this IP address
11. Once the software installation is complete, log into the application:
  - ◆ URL: *http://ipaddress\_of\_web\_application\_server/auth/*
  - ◆ Username: admin
  - ◆ Password: admin (you will be able to change the password thereafter)

### Setting up the Environment

- Log into the URL as an administrator as described above
- Click on the link to the "Admin Interface"
- Create a new project
- Create a new group and assign the project to this group
- Create a new user and assign this user to the new group
- Create a new dashboard and add the dashboard to the project

### Best Practices

#### Server Setup

1. The vmware virtual machine based installation of the web application server is designed for ease of installation and management
2. If vmware is not preferred, a different installer will be provided to run the web application directly on the server operating system
3. Apply the latest database and operating system patches on the servers
4. Change the admin password at regular intervals
5. Set up the database for backup on a nightly basis

#### User Management

1. Remove users once they leave the company
2. Assign access to dashboard workfiles to users individually
3. Limit the access for the administrator role