How to bootstrap a community

Keynote Speakers:

- Joe Brockmeier
  openSUSE Community Manager
  “How to bootstrap a community”

- Paul Frields
  Fedora Project Leader
  “Fedora: The Future, First”
A word from the President of UTOS

I would like to welcome everybody out this year. To start off with, we have a great conference theme: HOWTO. It really can’t get any better than that! HOWTO points the way to learn how to do something in open source; a contributor, a learning mechanism, a simple text document that started the whole thing.

We have a great team of folks involved in making UTOSC happen this year. I would be remiss if I didn’t thank them all, they’ve been brilliant putting this whole show together.

Also, over the last 8 months or so, several community members have created ‘ConMan’, our conference management software. ConMan is a great system and I’d like to thank them all. You know who you are, ConMan looks awesome!

As computer geeks running this conference, we get to play with cool hardware, AV equipment and invite techies and their families to our wondrous extravaganza every year and in so doing, we get to share our passions with you!

What is Utah Open Source Foundation?

The Utah Open Source Foundation was created in June of 2006 with the goal of ‘Helping grow open source in Utah’. This goal, while a tremendous challenge, has brought with it some great successes, and some serious trials. UTOS is in place because of the hard work and efforts from a group of volunteers, several business folk who are interested in UTOS’ success and the generous encouragement of the Utah Open Source community.

UTOS launched out of the now defunct Utah Open Source Coalition. Our ideals are similar in nature to theirs, though on a larger scale. UTOS plans help Local User Groups (LUGs) and others involved in open source in Utah in several areas. Our main focuses are community, technology and business, with a growing interest in spreading open source in education. We believe that helping those who help free software succeed is a noble goal.

A broader discussion of these goals can be found on our wiki. http://wiki.utos.org

Linux Release Party
Spring 2009
Watch http://utos.org for updates

Utah Open Source BBQ
Summer 2009
Watch http://utos.org for updates

WordCamp

WordCamp Utah 2008
September 27, 2008

Bringing together people interested in WordPress, blogging (and the web in general) to talk about what’s possible, and where’s it going.

UTOS Geek Lunch

Utah Open Source holds a regular monthly Geek Lunch for geeks, bloggers, code poets, sysops, desk jockeys and anybody who knows how to operate a mouse!

Go to http://utos.org/ to find out the latest on lunches and other community events.
Presentations

ure the system through the presentation. Using web based administration tools to easily configure an upstream Voice Over IP trunk and make and receive calls.

WordPress Performance and Scalability
Joseph Scott - Automattic
This presentation will cover techniques for increasing the performance and scalability of your WordPress powered website. Reducing individual page load times and scaling out to handle higher traffic loads will be the metrics we’ll be focusing on. Topics will cover the web server, PHP, MySQL, Memcache and WordPress plugins.

Writing Web Crawlers
Kevin Kubasik - My Parents Basement Software
While no one ever wants to scrape HTML for data the information cannot be accessed in any other way. While most crawlers are treated as hacks, new libraries make manipulating HTML almost as easy as XML. In this session we will not only cover the basics of good web crawler design (fault proof, retry queues, multiple threads, interval mapping, and mechanization tools) but we will study workarounds for common pitfalls as well as tools to help reverse-engineer dynamic sites.

UTOS Roll Call
As a 501(c)3 organization, we’re here to improve the usage of open source in Utah. We’ve assembled a team of Trustees, or what we sometimes call the Core Team.

Clint Savage - Founder/President
Emily Shaw - Administrative/Design
Will Smith - Systems/Infrastructure
Jayce Hall - The Face of UTOS
Doran Barton - Marketing/Systems
Stephen Shaw - Sponsorship/Marketing
Trevor Sharpe - Streaming/Podcasts/Wiki
Victor Villa - Events

With our Thanks!
Shauna Theobald of the OSTC for her great help last year and thanks to David Moss, SLCC
Thursday

12:30 p.m.
Speeding up database development with GenORMous - SI 091
Brian Hawkins (Lingotek)

The Billion Dollar (Free) Software Opportunity - SI 258
Matt Asay (Alfresco)

Using Vyatta to replace Cisco gear - SI 067
Tristan Rhodes (Utah OpenTech)

90% of the Python you need to know - SI 065
Matt Harrison (Insight Industries)

2:00 p.m.
Starting With Nagios - SI 258
Nathan Blackham

Serious VPN without serious cost - SI 065
Jeremy Willden (Ad Hoc Electronics)

WordPress Performance and Scalability - SI 091
Joseph Scott (Automattic)

Panel: Open Source And Government - SI 067
Jason Hall (Utah Open Source Foundation)

3:30 p.m.
Dialplans for Dummies: Introduction to Asterisk Dialplan - SI 258
Jared Smith (Digium)

The future of Artificial Intelligence in Open Source - SI 065
Ben Payne (Vantage Legrand)

SSH Tips and Tricks - SI 067
Aaron Burgemeister (Novell)

The Dark Art of Autotools - SI 091
John Jolly (Novell)

5:00 p.m.
Installing Drupal: From Blank to Blog in 30 Minutes - SI 091
Dirk Howard (IDK Software)

Voice Over IP for fun and profit - SI 258
Chris Cameron

How to Evangelize Without Getting Your Ass Kicked - SI 065
Matthew Reinbold

Data Integration for the masses - SI 067
Thomas Cook (Talend)

6:30 p.m.
Local Keynote: How To Leverage Open Source in a For-Profit Business - Oak Room
Mac Newbold (Code Greene)

7:00 p.m.
KEYNOTE: Fedora: The Future, First - Oak Room
Paul Frields (Red Hat)

erful, flexible, and sharable.

Tools for video and images
Doran Barton - KnowledgeBlue
This one hour presentation provides a brief introduction to many tools available to open source users, both command-line based and graphical, that let users do all sorts of useful tasks with video files and image files. The presentation includes, but is not limited to tools such as GIMP, ImageMagick, avidemux2, dvgrab, transcode, mplayer/mencoder, and ffmpeg.

Using Vyatta to replace Cisco gear
Tristan Rhodes - Utah OpenTech
Vyatta is an open source network appliance that can be used as a router, firewall, and VPN server. Vyatta is based on Debian Linux, but there is no need for Linux knowledge because Vyatta operates just like a network device. Vyatta will allow you to replace your over-priced routers with open source software running on industry standard server hardware. This presentation will demonstrate the capabilities of Vyatta and will include some basic configurations using the command line interface and the web-interface.

Using Apache as an Application Server
Phil Windley - Kynetix
Apache is widely known as the most advanced Web server on the planet, but, properly used, Apache is also a great application server, providing services for managing concurrency, security, logging, interprocess-communication, and request dispatching. Mod_perl is usually seen as an alternative to CGI, but that misses its true power. Using mod_perl, applications can access internal Apache services and leverage them to build scalable Web services with less effort--the laudable goal of any application server. This talk will focus on the techniques necessary to use Apache as an application server based on the presenter’s experience develop.

Using Lasers, Webcams, and Python to Create a Game
Matt Harrison - Insight Industries
For Halloween 2007 trick or treaters were not given candy, but were instead given laser guns and told to earn their candy by shooting a marshmallow vampire projected on a screen in my garage. I’ll present on the ideas behind the game as well as on how to set up your own laser controlled driveway activity. Audience members will be able to participate in demos of the games. More info at http://insightvr.com

Using VoIP for fun and profit
Chris Cameron
This presentation will show how to setup a voice over IP phone system from beginning to end. Using open source software we will explore how simple it is to have a high end phone system running in little time and on commodity hardware. We will take a computer and some inexpensive phones and install and config-
Presentations

Starting With Nagios
Nathan Blackham - Amazon.com
I will show a basic nagios installation and walk through the initial configuration. Talking about contacts and hosts and services. This should be enough to get a beginner to start with a basic monitoring setup.

The Billion Dollar (Free) Software Opportunity
Matt Asay - Alfresco
No one questions open source’s ability to commoditize markets, but can open source also build new markets? In this presentation, Matt Asay will walk through several billion-dollar software businesses already created with open-source software, and will address what Novell, Red Hat, and other open-source software vendors need to do to become the billion-dollar hub to a (trillion-dollar?) open-source ecosystem.

The Power of Nonprofit
Ray Jenson
This course covers the initiation of paperwork, some of the general guidelines and laws that people who want to get started should know, and how to select technologies for maximizing an organization’s efficiency within a minimal budget by selecting the right Open Source packages that fit your needs. Focus will be on Ubuntu and Debian platforms, as well as reasoning behind NOT using Microsoft’s products.

The Future of Artificial Intelligence in Open Source
Ben Payne - Vantage Legrand
Recent developments in Artificial Intelligence have enabled a basic computer system with no additional components to advance from a beginner in chess, to a master level in less than 300 games. This presentation will examine what a learning algorithm consists of, and why it may be important to Open Source in the future. By the end of this presentation the audience should have a foundational knowledge of what AI is and whether or not it may be useful in their own projects.

The Dark Art of Autotools
John Jolly - Novell/SuSE
Open Source Software has many challenges, but one of the most intimidating is providing a solid build system for the project. Build system tools such as autoconf and automake can cause you to throw your hands up in exasperation. This presentation will take you step-by-step on how to use autotools to build your already-existing project. From explaining the interaction between each tools, to showing you how to create shared libraries, this presentation will have you using these utilities like a pro.

Things I’ve Learned From Oggify
Scott Robertson
This presentation will be an overview of various tips and good practices I’ve learned from writing and managing Oggify. From it’s humble beginnings as a shell script, the various states in Perl for version 1.0, and the newly rewritten in Python for version 2.0. The presentation will be geared towards people of beginning to intermediate experience who are looking to start a project or improve habits with an existing project. Code examples will include: sh, perl, python, and ruby. Tools covered will be git (with some mention of bazaar, hg, and svn), vim, and zsh. Focus will not be on any language or tool, but principles and practices. By having good habits and avoiding common pitfalls your code will be more pow-

Schedule of Events

Friday
8:30 a.m.
High availability with Asterisk
and OpenSER - SI 067
Corey Edwards (Wyoming.com)

KVM/QEMU Virtual Machines
- SI 065
Jim Petersen (Novell)

Banshee Media Player - SI 258
Aaron Bockover (Novell)

Linux Media, Security and Automation - SI 065
Brandon Beattie (Zatabit)

Using Apache as an Application Server - SI 258
Phil Windley (Kynetx)

Google App Engine 101 - SI 067
Jonathan Ellis

HOWTO: Start an open-source radio station - SI 258
Michael Place (XMission)

Fedora Remix - SI 067
Paul Frields (Red Hat)

Linux accessibility efforts at Novell - SI 091
Brian Merrell (Novell)

2:00 p.m.
Local Keynote: The Free Content Business Model - Student Activity Center
Howard Tayler (Schlock Mercenary)

2:30 p.m.
KEYNOTE: How to bootstrap a community - Student Activity Center
Joe Brockmeier (Novell)

4:30 p.m.
Things I’ve Learned From Oggify - SI 065
Scott Robertson

Introduction to Perl - SI 091
Joseph Hall (Guru Labs)

FamilySearch Platform for Software Developers - SI 067
Gordon Clarke (FamilySearch)

6:00 p.m.
Camps: Better development environments - SI 258
Jon Jensen (End Point Corporation)

Vim and Python - SI 091
John Anderson (Orchid Event Solutions)

Monitoring your Data Center using Apache and Ganglia - SI 065
Brad Nicholes (Novell)
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30 a.m.</td>
<td><strong>Local Keynote: Ubuntu LTS - Using Ubuntu in the Enterprise</strong> - <em>SI 080</em></td>
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**Schedule of Events**

**Saturday**

8:30 a.m.
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Christer Edwards (Guru Labs)

Local Keynote: Open Source at SLCC - *SI 258*
David Moss (SLCC)

10:00 a.m.
openSUSE Build Service - *SI 091*
Andrew Jorgensen (Novell)

Using Lasers, Webcams, and Python to Create a Game - *SI 065*
Matt Harrison (Insight Industries)

Linux Multimedia - *SI 080*
Brandon Beattie (Zatabit)

Writing Web Crawlers - *SI 060*
Kevin Kubasik (My Parents Base-ment Software)

Building Apps w/ Apache MINA - *SI 067*
Mike Heath (LDS Church)

11:30 a.m.
The Power of Nonprofit - *SI 060*
Ray Jenson

GIMP for Photographers - *SI 080*
Glenda Rhodes (Utah OpenTech)

Tools for video and images - *SI 065*
Doran Barton (KnowledgeBlue)

How to write good HOWTOs for open source projects - *SI 091*
Grant Sperry (XMission)

Document Management - *SI 067*
Jared Ottley (Alfresco)

2:00 p.m.
Inkscape - Graphics Made Easy - *SI 080*
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Behavior Driven Development In Ruby - *SI 091*
Josh Simpson (Reno Gazette-Journal)

Build Rich Web Clients With Extjs - *SI 258*
Greg Hendricks (Novell)

A Django Miscellany - *SI 067*
Seth House

Open Source for the Windows Addict
Edwin Philips

The vast population of Windows users need not fear Open Source. The windows addicted can Experience the benefits of Open Source without giving up their teddy bear. This presentation will introduce a variety of Open Source applications which run in windows, including OpenOffice, KeePass, GIMP, VideoLAN, and others. It will highlight the flexibility and portability of these applications, including the ability in many cases to carry the applications themselves on a USB thumb drive.

openSUSE Build Service
Andrew Jorgensen - Novell

Package creation and maintenance using the openSUSE Build Service. Covers the web interface as well as the command-line tools and some RPM .spec file basics as well. The openSUSE build service offers developers and intrepid users a place to build and host their open source software for all major Linux distributions on i586 and x86_64.

Panel: Open Source And Government
Jason Hall - UTOS

A panel discussion with several members of the Utah political and technical scene. We will discuss the use of open source software in government operations, as well as open source philosophy is the political process.

Serious VPN without serious cost
Jeremy Wilden - Ad Hoc Electronics
How to set up your own OpenVPN server for your home and office for easy remote access, and set up VNC for complete computer control from anywhere in the world. Don’t pay to “go-to-your-PC” if you don’t have to. Covers installation, configuration, generation of server and client certificates, and use of the OpenVPN client in dd-wrt router firmware. Targeted at small businesses, but great for your home network, too.

Speeding up database development with GenORMous
Brian Hawkins - Lingotek

This presentation introduces the GenORMous project (code.google.com/p/genormous) and shows how it can be used to speed up and simplify database access in Java based projects. GenORMous generates ORM objects based on a table definition file. The generated code is easy to used and modify for custom applications. GenORMous will also generate objects from complex SQL queries that are easy to a used and test within your code.

SSH Tips and Tricks
Aaron Burgemeister - Novell

In large IT environments with many servers running a variety of operating systems there are times when connection to a machine does not require the full graphical environment (VNC, RDP, NX, etc.). There are times when files need to be copied from one server to a dozen others securely interactively or by a process that does not have access to user credentials for remote systems. Installs, maintenance, statistics-gathering, and many other tasks can be handled via SSH with very little work as long as the knowledge is there to implement it. A presentation given a Novell’s Brainshare conference sought to give out this information in a practical way covering a wide variety of situations.
Guru Labs books. Full disclosure: my employer has asked me to use this as an opportunity to promote Guru Labs classes, in particular our upcoming shell scripting for sysadmins class.

KVM/QEMU Virtual Machines
Jim Petersen - Novell
Host/Guest installation and configuration for KVM/QEMU virtual machines.

Linux accessibility efforts at Novell
Brian Merrell - Novell
Accessibility involves the creation of software that is easy to navigate and use, especially for people with disabilities. In UI Automation, the AT's bind to the UIA Client interfaces and the desktop and applications write to the UIA Provider interfaces. The communication between the two processes is called the Core. To make UI Automation integrate with the GNOME Desktop, UI Automation needs to integrate into the existing accessibility frameworks; namely at-spi and ATK. On the Mono accessibility team at Novell, a test harness written around the open-source application Strongwind is being used to carry out automated testing. Our testing techniques could be used by anyone wanting to test their (accessible) GUI applications in Linux such as GTK applications.

Linux Multimedia
Brandon Beattie - Zatabit
Will discuss design, hardware, and software needed to build a Linux HTPC. Topics will include what hardware works best in Linux, Distro flavors, available software, setup and using Linux multimedia. Software covered will be MythTV, Xine, MPlayer, and VLC.

LinuxMCE Home Automation System
Barry McCormick
LinuxMCE is so much more than just a Windows Media Center replacement It does that and a ton more. Streaming media throughout your house, VoIP phone system for your family, home automation of almost anything that runs on power, or even be your home alarm system. With proper hardware it can control all of your entertainment devices. The possibilities are endless with this Open Source system and all with common computer hardware and items available at any electronics and hardware store.

Monitoring your Data Center using Apache and Ganglia
Brad Nichols - Novell
As an IT professional or systems administrator, one of the most important aspects of your job is to know and understand at all times what is going on in your data center. What is the health status of your hardware? Are your resources overloaded? What are your hardware utilization trends and how can your resources be better utilized? By deploying a pure Open Source solution using Apache as a frontend to the Ganglia monitoring sys-

Events and Activities

Thursday
8:30-11:00am
CTO Breakfast
6:30-8:30pm
Keynote Dinner with Paul Frields
All Day Novell Hack Week - (SI 075)

Friday
8:30pm
Geek/Blogger Dinner sponsored by UPHPU and CodeAway. Location: Tucanos Brazilian Grill at the Gateway
All Day Novell Hack Week - (SI 075)

Saturday
All Day Family Day

Geek Indispensable

Geek Entertainment
http://xkcd.com/
All Things Geek
http://tinyurl.com/2g9mqh
Curious Perversions in IT
http://thedailywtf.com/
Geek Gear
http://www.thinkgeek.com

Sapphire Sponsors

Emerald Sponsors

Utah Governor’s Office of Economic Development
Presentations

How to Evangelize Without Getting Your Ass Kicked
Matthew Reinbold - Vox Pop Design
For developers, debating platforms is equivalent to religions warfare. Whether its PC versus Mac or Silverlight verses Flash vitriolic arguments abound. In this session Matthew Reinbold, an Adobe user group leader and conference organizer, will expose the psychology behind the zealotry. He'll show how to successfully engage audiences of other camps while avoiding flame wars. Most importantly, he'll demonstrate the techniques necessary to evangelize without getting your ass kicked.

How to write good HOWTOs for open source projects
Grant Sperry - XMission
To succeed, a HOWTO needs to actually address the needs of your readers. We have all read HOWTOs that provided little help at all. Writing a good HOWTO requires the following: considering your audience and write with them in mind, Following the proper format and style, readability is key, addressing likely questions, Keeping it updated

HOWTO: Start an open-source radio station
Michael Place - XMission Internet
When a local community FM station suddenly fired their daytime on-air volunteers, the community came together and built a new home for them online. From the on-air desktop machine to the backend databases and from their ISP to their custom features on their site, UtahFM is based entirely around Open Source. In this presentation, Michael Place, the co-founder of UtahFM who also works during the day in Research and Development for XMission Internet, will explain how you can use open source to do the same.

Inkscape - Graphics Made Easy
John Taber
Inkscape is an easy-to-use, multi-purpose, open source, cross-platform vector graphics package. Uses are everywhere: advertisement flyers and posters, logos, web graphics, GIS mapping, Flowcharts, UML diagrams, and even remote whiteboarding. This presentation will show some of the many features of Inkscape and allow attendees to follow tutorials right on their laptops.

Installing Drupal: From Blank to Blog in 30 Minutes
Dirk Howard - IDK Software
Drupal is an extensible Content Management System (CMS) that is used for blogs, forums, photo galleries and many other uses. Installing Drupal on a blank website can be done in as little as 30 minutes. All you need is a web server that can handle PHP, a MySQL or PostgreSQL database, and either FTP or shell access to the web server. Within 30 minutes you can be blogging on your own site that you can customize anyway you want.

Introduction to Perl
Joseph Hall - Guru Labs
This will be a 90 minute introduction to the Perl scripting language. Some experience in other scripting languages is helpful, as this discussion will move quickly. A handout will be provided, courtesy of my employer, Guru Labs. The handout will be formatted like a chapter in the
lock-in and the high price of proprietary document management systems. This presentation is a HOWTO on using Alfresco to help you gain control of your documents. It will cover a high level architecture of Alfresco, integration and collaboration.

**FamilySearch Platform for Software Developers**
_Gordon Clarke - FamilySearch_
Learn about the new FamilySearch Web Services (API) and best practices for consuming them in a variety of popular software environments. Engineers and community developers have created public libraries, tools, and products. Get the facts for the source on the soon-to-be released Record Search API. Hot issues are GEDCOM, PAF, Tree-Cleaning, Mashing, Identity Management, and Synchronization.

**Fedora Remix**
_Paul Frields - Red Hat, Inc._
Fedora offers a complete set of tools for generating your own customized distribution. The output format can be installable CDs or DVDs, or Live images suitable for CD/DVD or USB keys. These tools allow sub-communities to consume and contribute to FOSS using a platform that is geared toward their specific needs. This talk will show off the toolset, and how the tools can be used to fill a variety of needs for the hobbyist, the administrator, or the FOSS advocate.

**GIMP for Photographers**
_Glenda Rhodes - Utah OpenTech_
This presentation will discuss using GIMP as an alternative to Photoshop for editing digital photos. Basic GIMP techniques (black/white, sepia, cropping) and some advanced techniques (layer masks for selective coloring, head-swapping, background blurring) will be covered. Participants are invited to bring in their own photos for questions and demonstrations. If time allows, the end portion of the class will be devoted to answering specific questions.

**Google App Engine 101**
_Jonathan Ellis_
Google App Engine allows running applications on Google infrastructure, including BigTable, Google’s non-relational, massively scalable database. This tutorial will cover the basics of App Engine development, including development and deployment of a simple application.

**High availability with Asterisk and OpenSER**
_Corey Edwards - Wyoming.com_
VoIP systems, such as Asterisk, are easy to install; but what happens when something goes wrong? That’s when you need a high availability cluster. We will discuss ways to set up OpenSER and Asterisk to make sure VoIP services are always available.

**How to build your own FamilySearch application**
_Jimmy Zimmerman - FamilySearch_
This presentation will show how to easily create your own FamilySearch software application. Several language-specific, Open Source libraries have been created to speed your development of applications for the new FamilySearch platform. We will demonstrate how to access and update FamilySearch data using Ruby, PHP, and Java. Learn how to explore your family tree, search a large database of genealogy records, and dis-
This presentation will introduce the motivation and philosophy behind the project, followed by practical representative examples of Puppet style automation.

Banshee Media Player
Aaron Bockover - Novell
Banshee is an open source multimedia application. Join us for a fun talk filled with demos of Banshee’s features and learn about how we’ve grown and support our vibrant community of users and developers.

Behavior Driven Development In Ruby
Josh Simpson - Reno Gazette-Journal
An introduction to Behavior Driven development and the superb library that implements it in Ruby: RSpec. Will focus on the benefits of ping pong development, and how Ruby’s loose syntax couples with RSpec’s intuitive DSL-like syntax.

Build Rich Web Clients With ExtJS
Greg Hendricks - Novell
There are a growing number of JavaScript toolkits that are redefining web client interfaces. The ExtJS toolkit is one of the most advanced, well documented, and cleanly coded. This presentation will walk through setting up a basic site and introduce developers to the most popular widgets such as grids, combo boxes, tab panels, and trees.

Building Apps w/ Apache MINA
Mike Heath - LDS Church
Apache MINA is an open-source Java based framework for building scalable and fast network applications. MINA based applications have been known to scale to 250,000 concurrent TCP/IP connections on a single host.

Camps: Better development environments
Jon Jensen - End Point Corporation
Everyone knows they should develop code in a development environment, not directly in production, but this doesn’t always happen. Over the past 5 years we’ve grown a solution to this problem, called “camps”. The presentation will describe the key components, tradeoffs, and show real-world examples of camps. The camp system is being released as a free software project, but even if it’s not directly used, people will likely find ideas to borrow for their own work.

Data Integration for the masses
Thomas Cook - Talend
Data integration is the process of moving and combining data across the information system. If you have data in one place and need it somewhere else a tool like Talend Open Studio can help you achieve the desired results.

Dialplans for Dummies: Introduction to Asterisk Dialplan
Jared Smith - Digium
This presentation will show you the basics of using the Asterisk dialplan. We’ll explore simple voice menus, dialing other phones, and implementing things like voicemail, find-me/follow-me routing, and audio conferencing. Along the way, we’ll also cover some telephony fundamentals.

Document Management
Jared Ottley - Alfresco
With the growing amount of content we are creating; it is becoming harder and harder to manage and collaborate. Alfresco offers an alternative to Sharepoint...