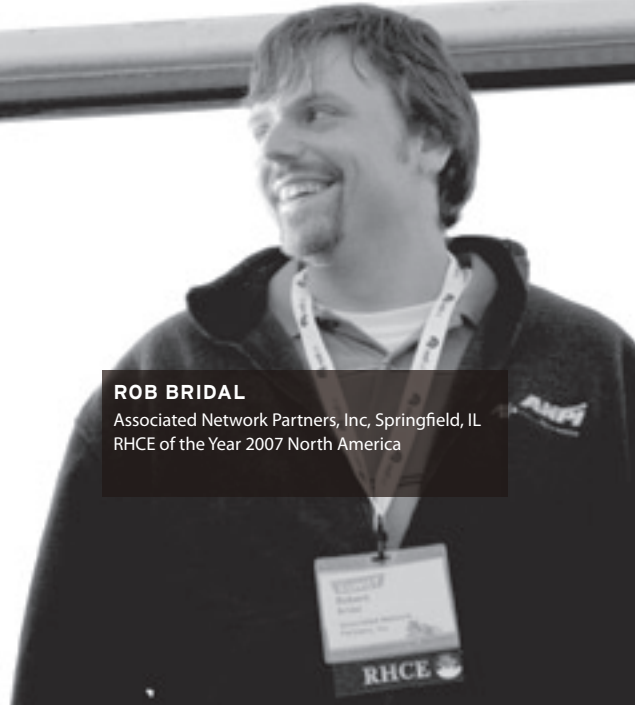redhat

RED HAT TRAINING AND CERTIFICATION

Course Catalog: December 2007 – May 2008
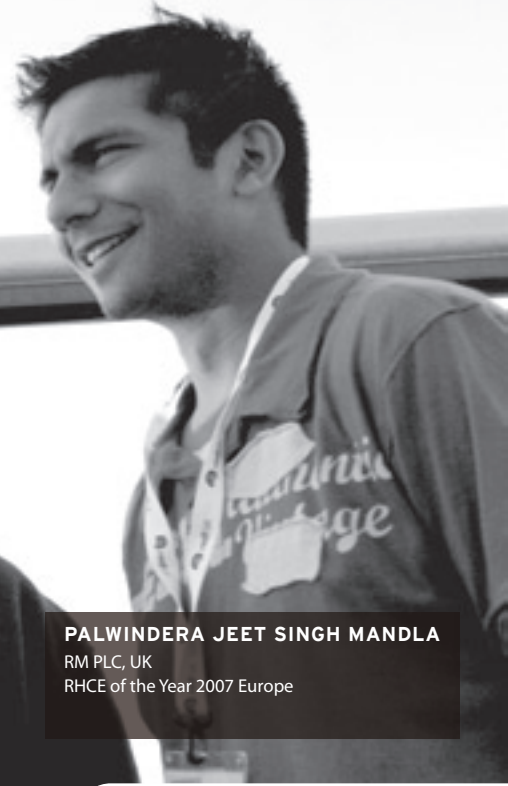
THANDAVA KRISHNAN SAIDAPET PADMANABHAN
Institute for Infocomm Research, Singapore
RHCE of the Year 2007 Asia-Pacific

ROB BRIDAL
Associated Network Partners, Inc, Springfield, IL
RHCE of the Year 2007 North America

PALWINDERA JEET SINGH MANDLA
RM PLC, UK
RHCE of the Year 2007 Europe

**FREE Wii WITH TRAINING!
LIMITED TIME OFFER.**
Turn page for details ▶

FREE Wii WITH RED HAT TRAINING

This Holiday season give yourself the gift of Red Hat Training, and we'll give you a **Nintendo Wii** in return.

Just make sure to register and attend a class between now and January 18, 2008 using the promo code on the back cover of this catalog.

*See page 45 for terms and conditions.

Cover:
Thandava Krishnan Saidapet Padmanabhan
Institute for Infocomm Research, Singapore
RHCE of the Year 2007 Asia-Pacific

The winner from Asia-Pacific, Thandava Krishnan Saidapet Padmanabhan, is using his RHCE knowledge to make the blood donor recruitment program of the Singapore Red Cross more efficient.

Rob Bridal
Associated Network Partners, Inc, Springfield, IL
RHCE of the Year 2007 North America

With the help of IT training, Rob Bridal was able to make a successful switch from a job on an assembly line to a job as a manager within a telecommunications company. He noted in his submission that the RHCE certification didn't help him climb the ladder, but rather introduced him to a new one.

Palwindera Jeet Singh Mandla
RM PLC, UK
RHCE of the Year 2007 Europe

Palwindera Jeet Singh Mandla from the UK has been able to drastically reduce environment rebuild times to under an hour. His company, RM, is the leading provider of complete IT solutions for the British education industry.

WHAT'S NEW WITH RED HAT TRAINING?

RED HAT CERTIFIED DATACENTER SPECIALIST
New upper-level Specialist certification is now available.
See page 18 for more information.

ENDORSEMENTS ARE NOW CERTIFICATES OF EXPERTISE
The upper-level credentials previously called Endorsements are now called Certificates of Expertise.
Read more on page 6.

NEW VIRTUALIZATION COURSE
RH184 Red Hat Enterprise Linux Virtualization is now offered as part of Applications curriculum.
See page 28 for details.

METAMATRIX TRAINING NOW AVAILABLE
Red Hat is now proud to offer MetaMatrix data federation training as part of our JBoss curriculum.
Turn to page 37 for more information.

RED HAT SUCCESS PACKS
Increase your chances to pass the RHCE and RHCT exam.
See page 14 for details and pricing.

▶ **Want to be a star?** If you have a Red Hat certification, you could be the next Training Catalog cover model. Submit a picture, short bio, and a couple of paragraphs detailing how Red Hat training has helped your career and/or your organization, and we could make you a Linux legend. All entries receive a discount coupon for future training, and the winner(s) will receive a free Red Hat course of their choice. Submit information to training@redhat.com, but don't blame us if the paparazzi become a problem!

TABLE OF CONTENTS

FOUR WAYS TO TRAIN

Open Enrollment

Open enrollment courses are offered continually in 50+ locations across North America and 125+ locations worldwide. Red Hat courses are performance-based—students have access to at least one dedicated system, and in some courses, as many as five. Instructors are all experienced Red Hat Certified Engineers (RHCEs) who are intimately familiar with course curriculum.

Course schedules are available throughout this catalog or at www.redhat.com/explore/training. For more information, call Red Hat Enrollment Central: 1-866-626-2994

On-site Training

On-site training is delivered by Red Hat at your facility for teams of 12 to 16 people per class. Red Hat's technical staff will assist your technical staff prior to arrival to ensure the training venue is prepared to run Red Hat Enterprise Linux, Red Hat or JBoss courses, and/or Red Hat certification exams. On-sites are a great way to train large groups at once. Open enrollment can be leveraged later for incremental training.

For more information, turn to page 44 or visit www.redhat.com/explore/onsite or call Red Hat Enrollment Central: 1-866-626-2994

eLearning

No time for class? Red Hat's e-Learning titles are delivered online and cover RHCT and RHCE track skills.

Turn to page 42 for course listings or visit: www.redhat.com/explore/elearning

Virtual Training

Looking for a live classroom experience direct from your own computer? Look no farther then Red Hat's new Virtual Training. Courses will be taught in real-time by Red Hat certified instructors and feature the full content available in our industry-acclaimed classroom courses.

Taught in a schedule of convenient four-hour increments, Red Hat Virtual Training courses will provide an ideal combination of flexibility and knowledge transfer.

Virtual Training will be available for selected Red Hat Certified Engineer track courses beginning in January 2008. Check www.redhat.com/explore/training for schedules and availability.

TRAINING COURSES

Industry-acclaimed. Performance-based. Red Hat training programs offer the most current and accurate hands-on training courses, and the most respected certifications in the open source space. Red Hat Training provides classroom-based courses at a number of convenient locations throughout North America.

1 System Administration (pp.8-25)
This track trains participants to install and configure Red Hat Enterprise Linux systems, focusing on elements common to most deployments. Starting with essentials for all system operators, administrators, and architects, this track trains broadly on system installation and configuration of the base OS, followed by standard networking services, and continuing to advanced administrative topics such as provisioning, clustering, and performance tuning.

A key component of the System Administration track is the ability to train for and earn Red Hat's renowned certifications, including the Red Hat Certified Technician (RHCT) and the Red Hat Certified Engineer (RHCE). Beyond the RHCE, participants can train and earn Certificates of Expertise by demonstrating architect-level abilities, leading to upper level certifications, including the Red Hat Certified Security Specialist (RHCSS) and the Red Hat Certified Architect (RHCA).

Web Administrator and Developer (p. 26)
Red Hat's web administrator and developer track includes a variety of courses covering topics that range from configuring Apache web servers to programming web applications using PHP and the MySQL database. The combined courses, along with Red Hat's larger System Administration curriculum, provides thorough hands-on instruction for all components of the LAMP solution stack. Web developers interested in web development for large enterprise application projects may also be interested in our JBoss Middleware curriculum.

Linux Developer (p. 27)
Red Hat's developer courses teach key concepts and skills essential to programming and software development for Linux-based tools and applications. Through hands-on training and with an emphasis on realistic labs and programming exercises, these courses are useful for a wide variety of developer skill levels and interests. Upon completion of the course, students will have learned and practiced the essential skills required to develop programs for Linux systems.

Applications (p. 28)
Red Hat's application courses are designed to teach key concepts and skills essential to specific technologies such as Red Hat Directory Server, Red Hat Network Satellite, Red Hat Certificate System, open source databases, and more. Upon completion of these courses, students will have learned and practiced the essential skills required to use these critical technologies within their infrastructure.

1

EXPERIENCE	TECHNICIAN		ENGINEER			
	RHCT		**RHCE**			
No UNIX/Linux experience	**RH033** Essentials	**RH133** System Administration Includes **EXAM RH202**	**RH253** Networking and Security Administration	**RH302 EXAM**		**CERTIFICATES OF EXPERTISE**
UNIX/Linux experience		**RH133** System Administration Includes **EXAM RH202**	**RH253** Networking and Security Administration	**RH302 EXAM**		
Considerable UNIX/Linux on-the-job skills and experience			**RH300** Rapid Track Includes **EXAM RH302**			

4

2 **JBoss Developer (pp. 30-41)**
The JBoss Enterprise Application Platform curriculum consists of courses critical for success with JEE and SEAM using the JBoss Application Server. This curriculum has the JBoss Applicaton Server as the target platform, focusing on SEAM and JEE APIs.

The JBoss Enterprise Framework Platform curriculum empowers individuals to enable and optimize the JBoss Enterprise SOA. This curriculum teaches skills essential for use with JEE Application Server or with simple JSE applications and successful deployment of data services and MetaData management with MetaMatrix.

▶ **Free Pre-assessment tests**
Test your Linux smarts and identify your Red Hat course level with our automated pre-assessment tests. Completely free, no obligations, 10 minutes of your time.

www.redhat.com/explore/assess

▶ **Free Wii with Red Hat Training**
This Holiday season give yourself the gift of Red Hat Training, and we'll give you a Nintendo Wii in return.

Just make sure to sign up for a class between now and January 18th, 2008.

*See page 45 for terms and conditions.

2 **JBOSS ENTERPRISE**

APPLICATION		FRAMEWORK	
JB161 JBoss and EJB3 for Java Developers	**JB167** Hibernate Essentials	**JB163** JBoss Portal	**MM157** MetaMatrix Introduction
JB170 JBoss SEAM Essentials	**JB453** JBoss ESB	**JB267** JBoss Advanced Hibernate	**JB439** JBoss Clustering
JB261 JBoss for Advanced J2EE Developers	**JB336** JBoss for Administrators	**JB449** JBoss jBPM	**JB451** JBoss Rules

SPECIALIST

RHCSS			RHCDS		
RHS333 Enterprise Security: Network Services	EX333 EXAM		**RH401** Deployment and Systems Management	EX401 EXAM	
RHS423 Directory Services and Authentication	EX423 EXAM		**RHS423** Directory Services and Authentication	EX423 EXAM	
RHS429 SELinux Policy Administration	EX429 EXAM		**RHS436** Storage Management	EX436 EXAM	

ARCHITECT

| RHCA				
RHS333 Enterprise Security: Network Services	EX333 EXAM	**RH436** Clustering and Storage Management	EX436 EXAM
RH401 Deployment, Virtualization and Systems Management	EX401 EXAM	**RH442** System Monitoring and Performance Tuning	EX442 EXAM
RH423 Directory Services and Authentication	EX423 EXAM		

RED HAT CERTIFICATIONS

Red Hat certifications are indisputably regarded as the best in Linux, and according to some, in all of IT. Taught entirely by experienced Red Hat experts, our certification programs measure competency on actual live systems and are in great demand by employers and IT professionals alike.

Choosing the right certification depends on your background and goals. Whether you have advanced, minimal, or no UNIX or Linux experience whatsoever, Red Hat Training has a training and certification path that is right for you.
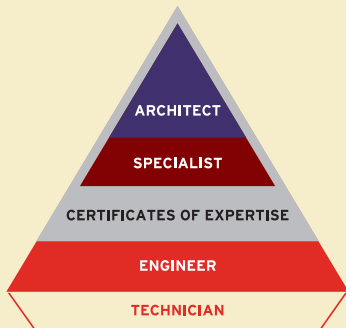
Red Hat Certified Technician® (RHCT®)
Now entering its fifth year, Red Hat Certified Technician is the fastest-growing credential in all of Linux, with currently over 15,000 certification holders. RHCT is the best first step in establishing Linux credentials and is an ideal initial certification for those transitioning from non-UNIX®/ Linux environments.

Red Hat Certified Engineer® (RHCE®)
Red Hat Certified Engineer began in 1999 and has been earned by more than 25,000 Linux experts. Called the "crown jewel of Linux certifications," independent surveys have ranked the RHCE program #1 in all of IT.

Certificates of Expertise™
Certificates of Expertise are upper-level credentials available to RHCEs who pass upper-level performance-based exams. The Certificates are incremental credentials attached to one's RHCE that attest to skills and knowledge in specialized areas.
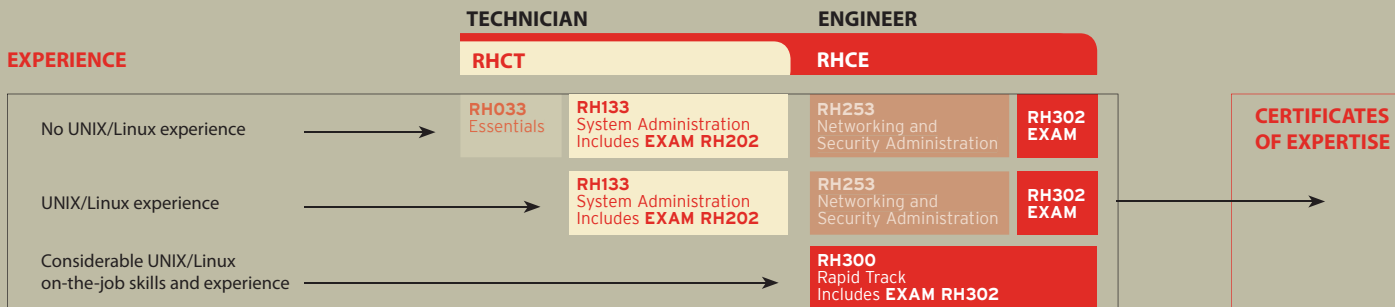
EXPERIENCE	TECHNICIAN RHCT		ENGINEER RHCE		
No UNIX/Linux experience	RH033 Essentials	RH133 System Administration Includes **EXAM RH202**	RH253 Networking and Security Administration	RH302 EXAM	CERTIFICATES OF EXPERTISE
UNIX/Linux experience		RH133 System Administration Includes **EXAM RH202**	RH253 Networking and Security Administration	RH302 EXAM	
Considerable UNIX/Linux on-the-job skills and experience			RH300 Rapid Track Includes **EXAM RH302**		

6

Red Hat Certified Datacenter Specialist™ (RHCDS™)

An RHCDS has the skills and knowledge necessary to build reliable, available, scalable, and manageable solutions in mission-critical datacenter environments using fully-supported open source technologies from Red Hat. RHCDS is Red Hat's newest certification, and the only one of its kind in Linux.
See page 18 for full details.

Red Hat Certified Security Specialist™ (RHCSS™)

An RHCSS has RHCE security knowledge plus specialized skills in Red Hat Enterprise Linux, Red Hat Directory Server and SELinux to meet the security requirements of today's enterprise environments.

Red Hat Certified Architect® (RHCA®)

RHCA is the capstone certificate in Red Hat's Linux Certification Program. Designed for architect level system administrators, the five course post-RHCE curriculum can be found on page 20.

- RHCE is the "crown jewel of Linux certifications"
  (CertCities.com)

- Named Hottest Certification for 2006
  (CertCities.com)

- #1, Overall Quality of Program, Education and Test Exams
  (Certification Mag./Fairfield Research)

- Red Hat Training and certification programs are "unparalleled in the Linux realm"
  (UnixReview)

SPECIALIST

RHCSS

RHS333 Enterprise Security: Network Services	EX333 EXAM
RHS423 Directory Services and Authentication	EX423 EXAM
RHS429 SELinux Policy Administration	EX429 EXAM

RHCDS

RH401 Deployment and Systems Management	EX401 EXAM
RHS423 Directory Services and Authentication	EX423 EXAM
RHS436 Storage Management	EX436 EXAM

ARCHITECT

RHCA

RHS333 Enterprise Security: Network Services	EX333 EXAM	RH436 Clustering and Storage Management	EX436 EXAM
RH401 Deployment, Virtualization and Systems Management	EX401 EXAM	RH442 System Monitoring and Performance Tuning	EX442 EXAM
RH423 Directory Services and Authentication	EX423 EXAM		

RED HAT CERTIFIED TECHNICIAN (RHCT)
AND RED HAT CERTIFIED ENGINEER (RHCE) CURRICULUM

Performance-based. Industry-acclaimed.

Red Hat Certified Technician (RHCT)
The RHCT Certificate is granted upon passing the RHCT Exam, a performance-based test on live equipment that measures actual competencies at system administration, including installation and configuration of a Red Hat Linux system and attaching it to a live network running network services. The RHCT Exam can be taken on the final day of RH133 Red Hat Linux System Administration (4.5 days), or alone as RH202 RHCT Exam. The RHCT certificate may also be granted to those who take the RHCE Exam and pass all RHCT-specific competencies which are included in the RHCE Exam.

Red Hat Certified Engineer (RHCE)
The RHCE certificate is designed to fit in a specific place within the computer industry spectrum of UNIX/Linux user levels.
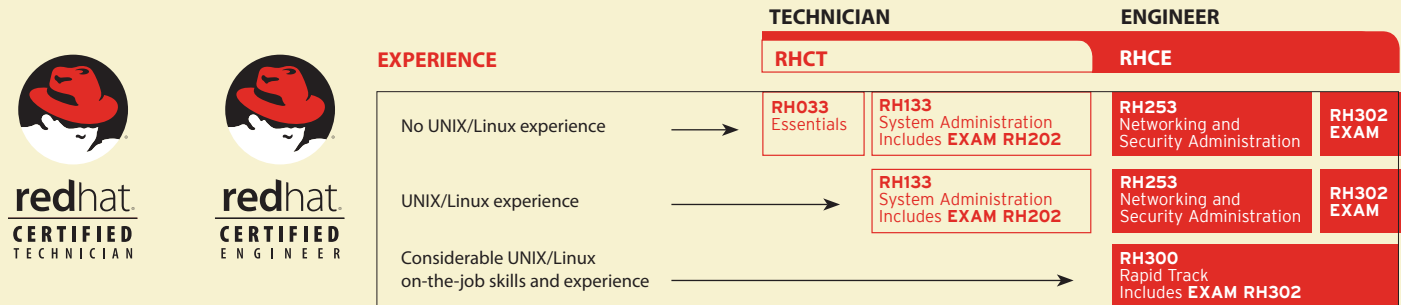
The RHCE Certificate is granted upon passing the RHCE Exam, a performance-based test on live equipment that measures actual competencies at server system administration, setup of networking services, and network security, and diagnostics and troubleshooting. The RHCE Exam can be taken alone as RH302 RHCE Exam (1-day) or as the final day of the RH300 RHCE Rapid Track course (5-days).

Meaning of RHCE and RHCT Certification
RHCE or RHCT certification serve as a metric of use to both individuals and employers to assess individual preparation and competency for key job roles involving Red Hat Linux computing.

Goal of RHCE and RHCT Certification
The primary goal of RHCE and RHCT certification is to meet the demand of individuals and employers for useful metrics of individual skills and competencies with Red Hat Enterprise Linux, the largest-selling distribution of Linux. The RHCE Program provides performance-based certification at two critical job role levels: Technician (RHCT) and Engineer (RHCE).

		TECHNICIAN		ENGINEER	
EXPERIENCE		RHCT		RHCE	
No UNIX/Linux experience	→	**RH033** Essentials	**RH133** System Administration Includes **EXAM RH202**	**RH253** Networking and Security Administration	**RH302 EXAM**
UNIX/Linux experience	→		**RH133** System Administration Includes **EXAM RH202**	**RH253** Networking and Security Administration	**RH302 EXAM**
Considerable UNIX/Linux on-the-job skills and experience	→			**RH300** Rapid Track Includes **EXAM RH302**	

redhat.
**CERTIFIED
TECHNICIAN**

redhat.
**CERTIFIED
ENGINEER**

RED HAT LINUX ESSENTIALS
Essential instruction for common command line processes, and system administration.

RH033

Course Description
The first course for both RHCT and RHCE certification tracks, RH033 is ideal for individuals who have never used Linux or UNIX, and who have no prior command line experience in any other operating system. You are taught the basics of a Red Hat Enterprise Linux environment, and it prepares you for your future role as a Linux system administrator.

Prerequisites
User-level experience with any computer system, including: use of menus and use of any graphical user interface.

Goal
A power user who can effectively use, customize and script a Red Hat Enterprise Linux system for common command line processes as well as use basic network utilities. A student who successfully masters the material in RH033 is ready to begin learning system administration (RH133).

Audience
IT professionals who want to build user-level skills before learning Linux System and Network Administration.

Course Objectives
- Understand the Linux file system structure
- Issue essential Linux commands from the command line
- Perform common tasks using the GNOME GUI
- Open, edit, and save text documents using the vi editor
- Understand users, groups and file access permissions
- Use I/O redirection and pipes
- Find and process files
- Investigate and manage processes
- Use network utilities
- Use system configuration and administration tools

Follow-on Courses
RH133 Red Hat Linux Sys. Admin. (p. 10)
RH253 Red Hat Linux Net. and Sec. Admin. (p. 11)
RH300 Red Hat Linux RHCE Rapid Track (p. 12)

> "I thought [the course] was well designed, keep it like it is. I've taken a lot of training courses, [...] and Doug [Bunger] was by far the most prepared and knowledgeable instructor I've ever had. My red hat's off to him for such a great job."
>
> Jeff W. Allen,
> HP Blade Server Architect, HP

RH033: 5 DAYS/$2398*

USA		IL	Chicago Downtown 12/3, 1/14, 2/18, 3/24, 5/12	NV	Las Vegas 2/4, 3/3, 3/24, 5/5	VA	DC (Tysons Corner) 12/17, 1/21, 2/18, 3/17, 4/28, 5/19
AZ	Phoenix 12/17, 2/18, 3/31, 4/21			NY	NYC/Microtek 3/10		
CA	L.A., (Anaheim) 12/10, 3/3, 4/28	IN	Indianapolis 2/4, 3/17, 5/19	NY	NYC/Red Hat 1/7, 2/18, 3/24, 4/21	WA	Seattle 12/10, 2/4, 3/31, 5/5
CA	L.A., (El Segundo) 1/21, 3/3, 4/7	MA	Boston/Burlington 3/17, 3/31, 4/7, 4/28	OH	Columbus 2/18, 4/7		
CA	Mountain View 1/21, 4/7	MA	Boston (Westford) 12/17, 1/28, 3/3	OR	Portland(Axian) 1/7, 5/5	CANADA	
CA	Sacramento 3/3, 3/24	MD	Columbia 12/17, 1/28, 2/25, 3/31, 4/14, 5/5	PA	Philadelphia 2/11, 3/3, 5/5	ON	Ottawa 2/11
CA	San Diego 1/21, 3/31, 5/5			TX	Austin/St.Edwards 12/10, 1/28, 3/3, 3/31, 4/28, 5/19	ON	Toronto 12/3, 1/21, 3/3, 4/21
CA	San Francisco 1/7, 2/18, 4/21	MI	Detroit 2/4, 3/17, 4/21				
CA	Santa Clara 12/10, 3/3, 3/10, 5/5	MN	Minneapolis 12/10, 3/3, 4/21	TX	Dallas/Microtek 3/3, 4/28		
CO	Denver 1/7, 2/18, 3/31, 5/5	MO	Kansas City 2/18, 3/4	TX	Dallas/Red Hat 1/7, 2/4, 3/24, 4/7		
FL	Jacksonville 3/17, 5/12	MO	St. Louis 1/21, 5/5	TX	Houston 1/21, 3/24, 5/5		
FL	Orlando 1/7, 2/18, 3/24, 4/28	NC	Raleigh 12/17, 1/28, 3/10, 4/28, 5/12	UT	Salt Lake City 4/14		
GA	Atlanta 1/7, 2/11, 3/17, 4/14, 5/19	NJ	Edison 12/3, 1/14, 2/25, 3/3, 4/7, 5/12				

RH133 | RED HAT LINUX SYSTEM ADMINISTRATION AND RHCT EXAM

System Administration and Red Hat Certified Technician (RHCT) Certification

Course Description

RH133 focuses on skills in systems administration on Red Hat Enterprise Linux, to a level where you can attach and configure a workstation on an existing network. This 4.5-day course provides intensive hands-on training on Red Hat Enterprise Linux, and includes the RH202 RHCT Certification Lab Exam on the last day.

Prerequisites

RH033 Red Hat Linux Essentials or equivalent experience with Red Hat Enterprise Linux.

Goal

Upon successful completion of this course, students will possess basic Linux system administrator knowledge which can be proved by passing the RHCT Exam. The exam is a performance-based lab exam that tests actual ability to install, configure, and attach a new Red Hat Enterprise Linux system to an existing production network.

Audience

UNIX system administrators and Linux users who understand the basics of Red Hat Enterprise Linux and desire further technical training to begin the process of becoming a system administrator.

Course Objectives

- Manage software packages with yum and rpm
- Understand system and service initialization
- Configure kernel parameters and manage processes and memory
- Set up core services: Logging, Printing, X Window System
- Automate tasks with cron and anacron
- Manage existing filesystems and integrate new filesystems
- Perform user and group administration
- Understand IPv4 and IPv6 networking
- Connect to network directory services like NIS and LDAP
- Backup and protect filesystems
- Implement advanced partitioning schemes like Software RAID and LVM
- Install Red Hat Enterprise Linux interactively and with Kickstart
- Troubleshoot basic system problems

Follow-on Courses

RH253 Red Hat Linux Net. and Sec. Admin. (p. 11)

RH202 RHCT EXAM

The fastest growing credential in all of Linux.

- RHCT exam is included with RH133. It can also be purchased on its own for $399
- RHCT exams occur on the fifth day of all RH133 classes

Course Description

The RHCT (Red Hat Certified Technician) is a hands-on, performance-based exam testing candidates actual skills in installing, configuring, and troubleshooting Red Hat Enterprise Linux. The Certification Lab Exam is bundled with RH133, but individuals who have mastered the content of RH033 and RH133 can take just the exam.

Prerequisites

Candidates should consider taking RH033 and RH133 in preparation for the exam, but they are not required to take it.

RH133: 4.5 DAYS/$2698*   RH131: 4 DAY COURSE WITHOUT RHCT EXAM, $2498*

USA		FL	Orlando 1/14, 2/25, 3/10, 4/7, 5/5	NJ	Edison 12/10, 1/21, 3/3, 3/17, 4/28	UT	Salt Lake City 3/17	
AZ	Phoenix 1/7, 2/25, 3/3, 4/14, 5/19	GA	Atlanta 12/3, 1/14, 2/18, 3/24, 4/21	OH	Columbus 12/3, 2/25, 3/17, 4/14	VA	DC (Tysons Corner) 1/7, 1/28, 2/25, 3/3, 4/7, 5/12	
CA	L.A. (Anaheim) 12/17, 3/10, 3/24, 5/19	IL	Chicago Downtown 12/10, 1/21, 2/25, 3/31	NV	Las Vegas 2/11, 3/17, 4/21	WA	Seattle 12/17, 2/11, 3/10, 4/28	
CA	L.A. (El Segundo) 1/28, 4/28	IL	Chicago Oakbrook 4/14, 5/5	NY	NYC/Microtek 5/12			
CA	Mountain View 12/17, 1/28, 3/10, 3/24, 4/14, 5/12	IN	Indianapolis 2/11	NY	NYC/Red Hat 12/3, 1/14, 2/25, 3/3, 4/28	CANADA		
CA	Sacramento 3/10, 4/14	MA	Boston (Westford) 1/7, 2/4, 3/10, 4/21	OR	Portland (Axian) 1/14	ON	Ottawa 2/18	
CA	San Diego 1/28, 3/10, 3/24, 4/14, 5/12	MA	Boston/Burlington 3/10, 3/24, 5/12	PA	Philadelphia 2/18, 4/7, 5/19	ON	Toronto 12/17, 1/28, 3/17, 4/7, 5/26	
CA	San Francisco 12/3, 1/14, 2/25, 3/3, 4/14, 5/12	MD	Columbia 12/17, 2/4, 3/3, 3/24, 4/7, 5/19	PA	Pittsburgh/Exctrn 12/3			
CA	Santa Clara 3/17, 4/7, 5/19	MI	Detroit 2/11, 3/10, 5/5	TX	Austin/Executrain 3/10, 4/28			
CO	Denver 1/14, 2/25, 3/17, 4/28	MN	Minneapolis 12/17, 3/10, 5/12	TX	Austin/St.Edwards 12/17, 2/4, 4/21			
FL	Jacksonville 3/3, 4/28	MO	Kansas City 3/10, 4/7	TX	Dallas/Microtek 3/10, 4/21			
		MO	St. Louis 2/4, 4/28	TX	Dallas/Red Hat 12/3, 1/14, 2/11, 3/31, 5/19			
		NC	Raleigh 1/7, 2/4, 3/3, 4/7, 4/21, 5/5	TX	Houston 12/3, 1/28, 3/31, 4/28			

Increase your chances of passing the RHCT with a Success Pack for: **$2728**
see page 14

RED HAT LINUX NETWORKING AND SECURITY ADMINISTRATION | RH253

Setup a Red Hat server and configure common network services.

Course Description

RH253 arms students with in-depth knowledge needed to configure common Red Hat Enterprise Linux network services. Network and local security tasks are also topics of this course.

Prerequisites

RH133 Red Hat Linux System Administration or equivalent experience with Red Hat Enterprise Linux, LAN/WAN fundamentals or equivalent, internetworking with TCP/IP or equivalent.

Goal

Upon completion of this course, individuals can set up a Red Hat Enterprise Linux server and configure common network services and security at a basic level.

Audience

RHCTs or people with skills and knowledge covered in RH133.

Course Objectives

- Network service configuration on Red Hat Enterprise Linux.
- Network system organization with DNS and DHCP.
- Web Service implementation with Apache and Squid.
- File Sharing services with Samba, FTP and NFS.
- SMTP services with sendmail and postfix.
- Remote connectivity and key management with ssh.
- Fundamentals of encryption.
- Kernel-level firewall implementation with iptables.
- Security Policy Administration
- Password Security

Follow-on Courses

RH302 RHCE Certification Exam

> **"This was excellent. This has been time well spent!"**
>
> Randall Solberg
> System Administrator, West Corporation

RH253: 4 DAYS/$2498*

USA		IL	Chicago Downtown 12/17, 3/3, 3/10, 5/5, 5/27	NY	NYC/Microtek 3/3	WA	Seattle 2/18, 3/3, 4/14, 5/19
AZ	Phoenix 1/14, 3/3, 3/10, 4/7, 5/27	IL	Chicago Oakbrook 4/21	NY	NYC/Red Hat 12/10, 3/3, 4/14, 5/5		
CA	L.A. (Anaheim) 1/7, 3/17, 4/14	IN	Indianapolis 2/18	OH	Columbus 12/10, 3/3, 3/10, 5/5	CANADA	
CA	L.A. (El Segundo) 2/4, 5/5	MA	Boston (Westford) 12/3, 1/14, 3/17, 5/12	OR	Portland (Axian) 3/17	ON	Ottawa 2/25
CA	Mountain View 2/4, 3/17, 5/12	MA	Boston/Burlington 4/17, 5/19	PA	Philadelphia 2/25, 4/21, 5/12	ON	Toronto 2/4, 3/11, 5/12
CA	Sacramento 12/3	MD	Columbia 12/3, 2/11, 3/3, 4/28, 5/27	PA	Pittsburgh/Exctrn 12/10		
CA	San Diego 2/4, 3/3, 4/7, 4/28, 5/19	MI	Detroit 3/3, 3/31	TX	Austin/Executran 5/5, 5/27		
CA	San Francisco 1/21/, 3/24, 5/5, 5/27	MN	Minneapolis 1/7, 4/7, 5/27	TX	Austin/St.Edwards 2/11, 3/10, 4/7		
CA	Santa Clara 3/24, 5/19	MO	Kansas City, MO	TX	Dallas/Red Hat 12/10, 2/18, 3/10, 5/5		
CO	Denver 12/3, 3/3, 3/10, 4/14	NC	Raleigh, NC 2/11, 3/3, 3/31, 4/21, 5/19	TX	Houston 12/10, 2/4, 3/17, 5/12		
FL	Jacksonville 3/24, 5/27	NJ	Edison 12/17, 3/10	UT	Salt Lake City 3/31		
FL	Orlando 12/3, 3/3, 3/31, 5/19	NV	Las Vegas 12/3, 2/18, 3/31, 4/14, 5/12	VA	DC (Tysons Corner) 12/3, 2/4, 3/24, 4/28, 5/27		
GA	Atlanta 12/10, 2/25, 4/7, 5/27						

RH300
RHCE RAPID TRACK COURSE (AND RHCE EXAM)
The fastest path to RHCE certification for experienced UNIX/Linux users.

Course Description
Five days in duration, this course provides intensive hands-on training on Red Hat Enterprise Linux, and includes the RHCE Certification Exam on the last day.

Prerequisites
RH033, RH133, RH253 or equivalent experience with UNIX. Please do not register for RH300 unless you are experienced with systems administration or are a power user in UNIX or Linux environments.

Goal
Upon successful completion of this course, individuals will be a Red Hat Enterprise Linux system administrator who has been trained and then tested using the RHCE Exam.

Audience
Experienced Linux System Administrators or UNIX System Administrators with extensive experience with networking services.

Course Objectives
- Interactive and Kickstart installations
- Package management with yum and rpm
- System initialization and kernel services
- Administration and automation
- Advanced filesystem management
- Understand IPv4 and IPv6 networking
- User, service, system and network security
- Standard networking services covering infrastructure, DNS, web, file sharing and mail

"Seriously, this was an outstanding class. I feel very well prepared for the test tomorrow."

Logan Ingalls,
Web developer, Texterity Inc., USA

RH302 RHCE EXAM
- RHCE exams are included with RH300. It can also be purchased on its own for $799
- RHCE exams occur on the fifth day of all RH300 classes

Course Description
RHCE stands apart from many other certification programs in the IT sector because of its emphasis on hands-on, performance-based testing of actual skills in Red Hat Linux installation, configuration, debugging, and setup of key networking services.

Prerequisites
See RH300 course prerequisites. For further information, please refer to the RHCE Exam Prep Guide: www.redhat.com/training/rhce/examprep. html

Content
- Section I: Troubleshooting and System Maintenance (2.5 hrs)
- Section II: Installation and Configuration (3 hrs.)

RH300: 5 DAYS/$2998*

RH301: 4 DAY COURSE WITHOUT RHCE EXAM, $2698*

USA							
AZ	Phoenix 1/21, 3/10, 3/24, 5/5	IL	Chicago Downtown 1/7, 3/3, 3/10, 4/21, 5/19	NC	Raleigh 1/14, 2/18, 3/17, 4/7, 4/28, 5/12	TX	Dallas/Red Hat 12/17, 1/21, 2/25, 3/3, 4/28, 5/12
CA	L.A. (Anaheim) 1/14, 3/10, 3/31, 5/12	IL	Chicago Oakbrook 5/12	NJ	Edison 1/7, 1/28, 3/31, 5/5	TX	Houston 12/17, 2/11, 3/3, 4/14
CA	L.A. (El Segundo) 12/3, 2/11, 4/21	IN	Indianapolis 2/25, 5/5	NV	Las Vegas 12/10, 2/25, 3/10, 4/7, 4/28, 5/19	UT	Salt Lake City 5/5
CA	Mountain View 12/3, 1/7, 2/11, 3/31	MA	Boston (Westford) 12/10, 2/18, 3/3, 3/24, 4/7, 5/19	NY	NYC/Microtek 4/7	VA	DC (Tysons Corner) 12/10, 1/14, 2/11, 3/3, 4/21, 5/19
CA	Sacramento 12/10, 3/10	MA	Boston/Burlington 4/21	NY	NYC/Red Hat 12/17, 1/21, 3/10, 5/19	WA	Seattle 1/14, 2/25, 3/24
CA	San Diego 2/11, 3/17, 4/21	MD	Columbia 12/10, 1/14, 2/18, 3/3, 3/10, 3/17, 4/21, 5/12	OH	Columbus 12/7, 3/10, 3/31, 4/28, 5/19		
CA	San Francisco 12/10, 1/28, 3/3, 3/17, 4/28	MI	Detroit 2/25, 3/24, 5/12	OR	Portland (Axian) 1/28, 4/28	CANADA	
CA	Santa Clara 3/3, 3/31, 5/12	MN	Minneapolis 1/14, 3/24, 5/5	PA	Philadelphia 12/3, 3/3, 3/17	BC	Vancouver 12/3
CO	Denver 12/10, 1/21, 3/10, 4/7, 5/19	MO	Kansas City 3/10, 3/31, 5/12	PA	Pittsburgh/Exctrn 12/17	ON	Ottawa 3/3
FL	Jacksonville 3/31, 4/14	MO	St. Louis 3/3, 3/10, 4/14, 5/19	TX	Austin/Executrain 3/24	ON	Toronto 2/11, 4/28
FL	Orlando 12/10, 1/21/, 3/17, 4/21, 5/12			TX	Austin/St. Edwards 1/7, 2/18, 4/14, 5/5		
GA	Atlanta 12/17, 1/21, 3/3, 3/10, 3/31, 5/12			TX	Dallas/Microtek 4/14		

Increase your chances of passing the RHCE with a Success Pack for: $3298

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

Is your organization moving to Red Hat Enterprise Linux 5? Do you need to learn its new advanced functionality such as core virtualization, yum package management, NetworkManager, and disk encryption? Or perhaps, are you a Red Hat Certified Engineer (RHCE) who wants to re-certify on version 5?

If the answer to any of these questions is yes, Red Hat is pleased to offer the following new update and re-certification courses.

Course Description

The Red Hat Enterprise Linux Update Course is designed for RHCEs with broad Red Hat Enterprise Linux 3 or 4 experience. It is intended to bring them up to date on the latest technologies now in the new Red Hat Enterprise Linux 5. The course offers the RHCE exam on Red Hat Enterprise Linux version 5 on the fourth day.

The course will teach participants some of the new features of Red Hat Enterprise Linux, version 5, aimed at RHCEs familiar with versions 3 and/or 4 of Enterprise Linux. Although the course will focus on material new from version 4 to version 5, some version 3 to version 5 material is included as well.

In addition, as a service to those considering recertifying under Red Hat Enterprise Linux, version 5, items that are newly covered for the RHCE exam under version 5 are also presented.

Goal

A Red Hat Enterprise Linux system administrator who has been trained on the new features of the version 5 of Red Hat Enterprise Linux. The course also offers them the opportunity to recertify under version 5 using the realistic performance-based lab exam.

Audience

Red Hat Certified Engineers (RHCEs) who have significant real world experience with Red Hat Enterprise Linux, versions 3 and/or 4.

Prerequisites

The RHUP304 course requires an RHCE certification along with broad, real-world experience with Red Hat enterprise Linux version 3 and/or 4. *Note: This course is for RHCEs only. Non-RHCEs who possess real-world Red Hat Enterprise Linux 3 and/or 4 experience along with RHCE-level skills and who are interested in learning about new Red Hat Enterprise Linux 5 functionality should consider RHUP 305.*

Course objectives

- Notable Changes: RHCT Level
- Notable Changes: RHCE Level
- LVM2 and Resizing Logical Volumes
- Software RAID Toolset Replacement
- Installation and System Initialization
- Package Management Using yum
- The Kernel: Driver and Device Management
- New in Filesystem Management
- New in Networking
- SELinux: Introduction and Overview of Changes
- Development Tools Update
- Introduction to Virtualization
- New RHCE Competencies in Version 5

RHUP304: 4 DAYS/$2298*

AZ	Phoenix 3/18
CA	Mountain View 5/20
CA	Santa Clara 4/29
CO	Denver 5/13
GA	Atlanta 3/12
MA	Boston (Westford) 4/29
OH	Columbus 5/13
TX	Dallas/Microtek 3/25
TX	Dallas/Red Hat 5/27
UT	Salt Lake City 5/27
VA	DC (Tysons Corner) 3/18, 4/8

RHUP 305: 3 DAYS/$1998

For non-RHCEs with vast Red Hat Enterprise Linux 3 and/or 4 experience, and RHCEs with the same broad experience who are not interested in re-certification at the present time. Offers the same lecture, lab, and hands-on learning as RHUP304 without the RHCE exam on the fourth day.

RHUP304 eLearning now available: www.redhat.com/explore/rhup304

SUCCESS PACKS / LIVE ACCESS LABS

Increase your chance of passing the exam

Success Packs

Red Hat certifications are indisputably regarded as the best in Unix® and Linux®, and perhaps, according to some, in all of IT. This is due in large part to - Red Hat's performance-based format - the RHCT® and RHCE® are not multiple choice tests, you either know it or you don't, and passing is not a "given," even with a night or two of cramming.

In fact, did you know that less than 50% of first-time test-takers for both RHCT and RHCE pass? But as you might expect, the rate increases significantly to 75%+ for second-time test takers.

That's why Red Hat is pleased to offer RHCT and RHCE Success Packs. A Success Pack acts as insurance in a way, providing a re-take of the exam, if you fail the first exam. If your first attempt is unsuccessful, try honing your skills for a little while, then call Red Hat Enrollment at 1-866-626-2994 within 90 days of receiving your exam results and schedule a re-take. It's that easy.

Cost

The Success Packs are bundled with the course. The course includes the exam on the fifth day. The RH133 Red Hat System Administration Success Pack Bundle is $2728 (USD). The RH300 RHCE Rapid Track Course Success Pack Bundle is $3298 (USD).

How to Order

Decide which class you wish to attend and turn to course page to get locations for that course:

• Enroll Now in RH133 Red Hat Systems Administration Success Pack Bundle.
• Enroll Now in RH300 RHCE Rapid Track Course Success Pack Bundle.

On the Registration form, include "SP1" in the Offer Code field for the RH133 Success Pack bundle or "SP2" for the RH300 Success Pack bundle.

Get ready for your certification exam with Red Hat Live Access Labs

The Red Hat Live Access Lab environment provides participants with the opportunity to conduct self-paced lab learning in the same environment as what students have in the RHCE track courses.
In addition to their machine (XWindows-based console access included), the participants have access to a server1, which provides network infrastructure services as well as a yum repository with the RHEL5 distribution and the troubleshooting software from the RHCE track courses.

Participants will have full console access to a self-paced study lab environment. It provides an ideal place to re-work lab exercises from Red Hat training, or to experiment with advanced configuration of the machine or it's services.

Prerequisites:

Participants should have experience working with Red Hat Enterprise Linux

Audience:

People who wish to work in an environment identical to what is provided to participants in Red Hat instructor led training courses.

Availability:

Red Hat Live Access Labs will become available in Winter 2007.
Please visit www.redhat.com/explore/training often for updates.

Terms and Conditions:

Offer good in the United States and Canada only. You must purchase qualifying training courses between March 15, 2007 and December 31, 2008. Please specify promo code at the time of purchase. Offer applies to RH133-Red Hat System Administration and RH300-RHCE Rapid Track Course. Success Packs cannot be purchased along with RH202 RHCT Exam or RH302 RHCE Exam. If Participant passes the first exam the re-take exam becomes void. If customer takes RHCE exam, attains RHCT certification but not RHCE certification, the re-take is still valid. This offer is non-transferable - only the individual who purchases a Success Pack may re-take the exam. Re-take exam must be scheduled within ninety (90) business days of failing the first exam and the re-take exam must occur within six (6) months after the initial course. Courses are subject to availability. This offer cannot be redeemed for cash, credit or refund. Offer void if Participant cancels, no-show, reschedules or request credit or refund. This offer cannot be combined with other discount programs or coupons. Once scheduled, normal course Terms and Conditions apply. If you are a U.S. Government Employee, please read the U.S. Government Terms and Conditions page. Participant is responsible for assessing his/her suitability for enrolling into the appropriate course. Void where prohibited by law.

GET A TASTE OF TRAINING

Watch Red Hat instructors give sample lessons of five RHCT/RHCE track courses.

BRAD SMITH, Red Hat Instructor, gives a few tips and tricks for command line use during his **RH033** Red Hat Linux Essentials class.
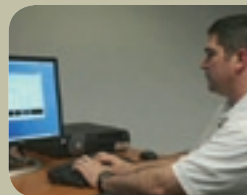
MARC CURRY, Red Hat Instructor, shows how to use Logical Volume Manager (LVM) during his **RH133** Red Hat Linux System Administration and RHCT class.

SCOTT MCBRIEN, Red Hat Instructor, talks about iptables during his **RH253** Red Hat Linux Networking & Security class.

MARC CURRY, Red Hat Instructor, demonstrates how to deploy virtualized versions of Red Hat Enterprise Linux using Xen virtualizaton technology during **RH184** Red Hat Enterprise Linux Virtualization class.

JOHNATHAN KUPFERER, Red Hat Instructor, talks about HTTP services and Apache virtual hosting during his **RH300** RHCE Rapid Track Course.

"[The labs] were great. The general steps and detailed steps allowed you to go through a thought-provoking exercise and effectively see how another user may have gone through this as well."

Matthew Leggett, Operations Engineer, Peopleclick, Inc.

WATCH THE VIDEOS: www.redhat.com/explore/taste_of_training

SPECIALIST CERTIFICATIONS RHCSS AND RHCDS
Red Hat's newest credentials and the only ones of their kind in Linux.

Red Hat Certified Security Specialist (RHCSS)
Red Hat Certified Security Specialist (RHCSS) is a security certification that proves advanced skills in using Red Hat Enterprise Linux, SELinux, and Red Hat Directory Server to meet the security requirements of today's enterprise environment.

Current RHCEs will obtain RHCSS certification upon successfully passing all three Expertise Exams:

• EX333 Red Hat Enterprise Security: Network Services
• EX423 Enterprise Directory Services and Authentication
• EX429 SELinux Policy Administration

NEW !

Red Hat Certified Datacenter Specialist (RHCDS)
An RHCDS has the skills and knowledge necessary to build reliable, available, scalable, and manageable solutions in mission-critical datacenter environments using fully-supported open source technologies from Red Hat.

Red Hat Certified Datacenter Specialist (RHCDS) is an upper-level credential an RHCE can acquire by earning the following Certificates of Expertise:

• EX401 Deployment and Systems Management
• EX423 Directory Services and Authentication
• EX436 Clustering and Storage Management

These courses build on the skills covered in the Red Hat Certified Engineer (RHCE) program, which is a prerequisite.

All upper-level courses are peer level, meaning each can be taken by someone with RHCE or equivalent skills. Any order is fine.

SPECIALIST CERTIFICATIONS

RHCSS		RHCDS	
RHS333 Enterprise Security: Network Services	**EX333 EXAM**	**RH401** Deployment and Systems Management	**EX401 EXAM**
RHS423 Directory Services and Authentication	**EX423 EXAM**	**RHS423** Directory Services and Authentication	**EX423 EXAM**
RHS429 SELinux Policy Administration	**EX429 EXAM**	**RHS436** Storage Management	**EX436 EXAM**

redhat. CERTIFIED SECURITY SPECIALIST

redhat. CERTIFIED DATACENTER SPECIALIST

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

Red Hat Certified Security Specialist

Audience

Computer security specialists and others responsible for implementing security policies on a Linux computer. These courses feature equipment-intensive classrooms and build on the skills covered in the RHCE program, which is prerequisite for all RH400- and RHS400-level courses. Prospective course participants who do not possess RHCE certification are strongly advised to take Red Hat's online skill pre-assessments prior to enrolling in any of these courses.

RHS333 Enterprise Security: Network Services

This course goes beyond the essential security coverage offered in the RHCE curriculum and delves deeper into the security features, capabilities, and risks associates with the most commonly-deployed network services such as web, ftp, email, and file sharing based on Red Hat Linux.
Price: $2298*
See page 21 for full course details.

RH423 Red Hat Enterprise Directory Services and Authentication

This course trains senior system administrators to manage and deploy directory services on and for Red Hat Enterprise Linux systems. Gaining an understanding of the basic concepts, configuration, and management of LDAP-based services is central to this course. Students will integrate standard network clients and services with the directory service in order to take advantage of its capabilities. We will also look at PAM, the Pluggable Authentication Modules system, and how it is integrated with services that require authentication and authorization.
Price: $2898*
See page 23 for schedule and full course details.

RHS429 Red Hat Enterprise SE Linux Policy Administration

Among the most significant features of Red Hat Enterprise Linux is SELinux (Security Enhanced Linux), a powerful, kernel-level security layer that provides fine-grained control over what users and processes may access and execute on a system. RHS429 introduces advanced system administrators, security administrators, and applications programmers to SELinux policy writing. Participants in this course will learn how SELinux works; how to manage SELinux; and how to write an SELinux policy.
Price: $2898*

RHS333: 4 DAYS/$2598*
EX333: $549* WHEN PURCHASED WITH CLASS

CA	Mountain View 12/10
CA	Santa Clara 3/3, 4/21
CO	Denver 2/11
NC	Raleigh 3/17, 4/14
NJ	Edison 5/19
NY	NYC(Red Hat) 5/12
IN	Indianapolis 3/3
MA	Boston(Westford) 2/25
MD	Columbia 12/17
TX	Dallas/Microtek 3/10
TX	Dallas/Red Hat 3/17
VA	DC (Tysons Corner) 12/3, 4/21

RH423: 4 DAYS/$2898*
EX423: $549* WHEN PURCHASED WITH CLASS

CA	Mountain View 2/18
CO	Denver 1/28
GA	Atlanta 5/5
IL	Chicago Oakbrook 2/25
MD	Columbia 2/18
NY	NYC/Microtek 12/3
TX	Dallas/Microtek 1/7
VA	DC (Tysons Corner) 2/4, 5/12

RHS429: 4 DAYS/$2898*
EX429: $549* WHEN PURCHASED WITH CLASS

CA	Mountain View 4/21
CA	Santa Clara 2/25
MD	Columbia 1/28, 3/17
NC	Raleigh 12/17

Red Hat Certified Datacenter Specialist

RHCDS Courses

Audience

System administrators working in mission-critical datacenter environments.

RH401 Red Hat Enterprise Deployment, Virtualization and Systems Management

RH401 trains senior system administrators to manage large numbers of Enterprise Linux servers in a variety of roles, and/or manage them for mission-critical applications that require failover and load-balancing.

Further, RH401 is benchmarked on expert-level competencies in managing operating systems for enterprise roles—the course teaches how to implement and manage enterprise Red Hat Enterprise Linux deployments efficiently and effectively in ways that make the entire enterprise deployment manageable by a team.

Price: $2898*
See page 22 for full course details.

RH423 Red Hat Enterprise Directory Services and Authentication

This course trains senior system administrators to manage and deploy directory services on and for Red Hat Enterprise Linux systems. Gaining an understanding of the basic concepts, configuration, and management of LDAP-based services is central to this course. Students will integrate standard network clients and services with the directory service in order to take advantage of its capabilities. We will also look at PAM, the Pluggable Authentication Modules system, and how it is integrated with services that require authentication and authorization.

Price: $2898*
See page 23 for schedule and full course details.

RH436 Red Hat Enterprise Clustering and Storage Management

This course is designed to train people with RHCE-level competency on skills required to deploy and manage highly available storage data to the mission-critical enterprise computing environment. Complementing skills gained in RH401, this course delivers extensive hands-on training with the cluster file system, GFS.

Price: $3998*
See page 24 for schedule and full course details.

RH401: 4 DAYS/$2898*
EX401: $549* WHEN PURCHASED WITH CLASS

CA	Mountain View 1/14, 5/5
CA	San Francisco 5/19
CO	Denver 12/17, 4/21
GA	Atlanta 2/4, 3/3
IL	Chicago Downtown 2/11
MD	Columbia 3/24
NC	Raleigh 3/10
NJ	Edison 4/21
NY	NYC(Red Hat) 2/4
OR	Portland (Axian) 5/12
TX	Austin/St.Edwards 3/17 Dallas/Red Hat 4/14
VA	DC (Tysons Corner) 1/14, 3/31

RH423: 4 DAYS/$2898*
EX423: $549* WHEN PURCHASED WITH CLASS

CA	Mountain View 2/22
CO	Denver 2/1
GA	Atlanta 5/9
IL	Chicago Oakbrook 2/29
MD	Columbia 2/22
NY	NYC/Microtek 12/7
TX	Dallas/Microtek 1/11
VA	DC (Tysons Corner) 2/8, 5/16

RHS436: 4 DAYS/$3998*
EX436: $549* WHEN PURCHASED WITH CLASS

CA	Mountain View 3/3	CANADA	
CO	Denver 3/24	ON	Toronto 3/31
FL	Orlando 4/14		
GA	Atlanta 3/10, 4/28		
IL	Chicago Downtown 3/17		
MA	Boston(Westford) 2/11, 3/10		
MD	Columbia 2/4		
MN	Minneapolis 4/28		
NC	Raleigh 12/3, 3/19		
NY	NYC/Microtek 3/31		
TX	Austin/Executrain 3/3		
TX	Dallas/Microtek 12/17		
VA	DC (Tysons Corner) 5/5		

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

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Ball Cap
$15

Polo
$39.95

RHCE Lapel Pin
$3.95

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CERTIFIED
ENGINEER

Laptop Bag
$49.50

Pint Glass Set (4)
$20.95

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RED HAT CERTIFIED ARCHITECT (RHCA)/ ENTERPRISE ARCHITECT CURRICULUM

Master-level competency. Indisputable proof.

Red Hat Certified Architect courses provide in-depth, hands-on training for senior Linux system administrators.

The full RHCA curriculum consists of four advanced 400-level Enterprise Architect courses and an upper-level security course:
- RHS333 Red Hat Enterprise Security: Network Services
- RH401 Red Hat Enterprise Deployment, Virtualization, and Systems Management
- RH423 Red Hat Enterprise Directory Services and Authentication
- RH436 Red Hat Enterprise Clustering and Storage Management
- RH442 Red Hat Enterprise Systems Monitoring and Performance Tuning

The courses are all "peer" level, meaning each can be taken by someone with RHCE or equivalent skills. Any order is fine.

RHCA Expertise Exams: Each course in the curriculum is followed by an expertise exam on the fifth day. Expertise exams may be taken immediately following the corresponding course, or at any time. The exams test skills of the job role competencies covered in the prior four days of hands-on training. Passing the Expertise Exam earns the candidate a Certificate of Expertise in addition to his or her RHCE credential for that specific enterprise skillset. Expertise exams vary in length from 2 to 8 hours depending on the course, and can only be taken by current RHCEs.

Current RHCEs will obtain RHCA certification upon successfully passing all five expertise exams.

Enterprise Architect Combo Discount:
$200 expertise exam discount when ordering an RHCA-series course and the corresponding exam. Use promotional code 45678 with exam when purchasing.
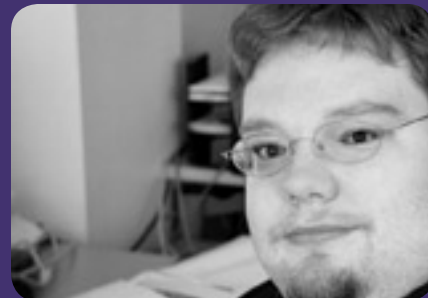
Florian Brand, World's First RHCA! Check out Florian's words of wisdom: www.redhat.com/explore/florian

redhat.
CERTIFIED ARCHITECT

ARCHITECT

RHCA

RHS333 Enterprise Security: Network Services	**EX333 EXAM**	**RH436** Clustering and Storage Management	**EX436 EXAM**
RH401 Deployment, Virtualization and Systems Management	**EX401 EXAM**	**RH442** System Monitoring and Performance Tuning	**EX442 EXAM**
RH423 Directory Services and Authentication	**EX423 EXAM**		

*RHCA courses may be taken in any order and require RHCE or equivalent experience.

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

Course Description

Red Hat Enterprise Linux has gained considerable momentum as the operating system of choice for deploying network services such as web, ftp, email, and file sharing. Red Hat's RHCE curriculum provides training in deploying these services and on the essential elements of securing them.

Prerequisites

RH253, RH300, or RHCE certification or equivalent work experience is required for this course. Course participants should already know the essential elements of how to configure the services covered, as this course will be focusing on more advanced topics from the outset.

Goal

This class advances beyond the essential security coverage offered in the RHCE curriculum and delves deeper into the security features, capabilities, and risks associated with the most commonly deployed services.

Audience

The audience for this course includes system administrators, consultants, and other IT professionals responsible for the planning, implementation, and maintenance of network servers. While the emphasis is on running these services on Red Hat Enterprise Linux, and the content and labs will assume its use, system administrators and others using proprietary forms of UNIX may also find many elements of this course relevant.

• Mastering basic service security
• Understanding cryptography
• Logging system activity
• Securing BIND and DNS
• Network user authentication security
• Understanding Kerberos
• Improving NFS security
• The secure shell: OpenSSH
• Securing email with Sendmail and Postfix
• Managing FTP access
• Apache security
• Basics of intrusion response

Follow-on Courses

(can be taken in any order)
RH401 Red Hat Enterprise Deployment and System Mgmt. (p. 22)
RH423 Red Hat Enterprise Directory Services and Authentication (p. 23)
RH436 Red Hat Enterprise Storage Mgmt. (p. 24)
RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 25)

RHS333: 4 DAYS/$2598*

CA	Mountain View 12/10
CA	Santa Clara 3/3, 4/21
CO	Denver 2/11
NC	Raleigh 3/17, 4/14
NJ	Edison 5/19
NY	NYC(Red Hat) 5/12
IN	Indianapolis 3/3
MA	Boston(Westford) 2/25
MD	Columbia 12/17
TX	Dallas/Microtek 3/10
TX	Dallas/Red Hat 3/17
VA	DC (Tysons Corner) 12/3, 4/21

Expertise Exam
EX333 Enterprise Security: Network Services
1 DAY $749* (or $549* when ordered with class)

Upon passing the exam, one will have earned this additional Certificate of Expertise to one's RHCE certification.This credential is one of the five required in order to earn RHCA

Dates: Fifth day of all courses listed at left.

RH401
RED HAT ENTERPRISE DEPLOYMENT, VIRTUALIZATION, AND SYSTEMS MANAGEMENT
Manage Red Hat Enterprise Linux deployments.

Course Description
RH401 is a four-day intensive hands-on lab course in skills and methods important for large-scale deployment and management of Red Hat Enterprise Linux systems. This class focuses on using Red Hat Network Satellite Server as a deployment and management mechanism in conjunction with other technologies such as DHCP and PXE, construction of custom RPM software packages, version control systems. A substantial portion of the class is focused on system virtualization and its use in deployment.

Prerequisites
RH253 at a minimum, RHCE certification preferred, or comparable skills and knowledge. All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests.

Note: Persons should not enroll in RH401 without meeting the above prerequisites. All prospective course participants who do not possess RHCE certification are strongly advised to contact Red Hat Global Learning Services for a skills assessment when they enroll.

Goal
RH401 trains senior system administrators to manage large numbers of Red Hat Enterprise Linux systems and to use system virtualization as a critical technology in systems deployment. Students will learn how to install and use Red Hat Network Satellite Server and how to deploy custom software packages and configuration files to clients using that technology. Students will learn how to create their own RPM packages for deployment to managed systems.

Participants will also learn how to configure and use virtual machine technology, enabling multiple operating systems to run on the same hardware platform at the same time.

Audience
Senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

Course Objectives
- Provisioning with DHCP and PXE
- Construction of custom RPM packages
- Configuration management with CVS
- Installing Red Hat Network Satellite Server
- Using Red Hat Network to provision systems
- Using and managing virtualized operating systems

Follow-on Courses
(can be taken in any order)
RHS333 Enterprise Security: Securing Network Services (p. 21)
RH423 Red Hat Enterprise Directory Services and Authentication (p. 23)
RH436 Red Hat Enterprise Storage Mgmt. (p. 24)
RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 25)

RH401: 4 DAYS/$2898*

CA	Mountain View 1/14, 5/5
CA	San Francisco 5/19
CO	Denver 12/17, 4/21
GA	Atlanta 2/4, 3/3
IL	Chicago Downtown 2/11
MD	Columbia 3/24
NC	Raleigh 3/10
NJ	Edison 4/21
NY	NYC(Red Hat) 2/4
OR	Portland (Axian) 5/12
TX	Austin/St.Edwards 3/17
TX	Dallas/Red Hat 4/14
VA	DC (Tysons Corner) 1/14, 3/31

Expertise Exam
**EX401 Deployment & Systems Management
1 DAY $749*** (or $549* when ordered with class)

Upon passing the exam, one will have earned this additional Certificate of Expertise to one's RHCE certification. This credential is one of the five required in order to earn RHCA.

Dates: Fifth day of all courses listed at left.

> "After taking RH401 I am completely confident that I can implement enterprise-scale high-availability solutions end-to-end."
> Barry Brimer, Bunge North America

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

Course Description

RH423 is an intensive course that provides four days of instruction and labs on cross-platform integration of directory services to provide authentication or information service across the enterprise.

Prerequisites

RH253 at a minimum, RHCE certification preferred, or comparable skills and knowledge. All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests.

Note: Persons should not enroll in RH423 without meeting the above prerequisites. All prospective course participants who do not possess RHCE certification are strongly advised to contact Red Hat Global Learning Services for a skills assessment when they enroll.

Goal

RH423 trains senior system administrators to manage and deploy directory services on and for Red Hat Enterprise Linux systems. Gaining an understanding of the basic concepts, configuration, and management of LDAP-based services is central to this course. Students will integrate standard network clients and services with the directory service in order to take advantage of its capabilities. We will also look at PAM, the Pluggable Authentication Modules system, and how it is integrated with services that require authentication and authorization.

Audience

Senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

Course Objectives

- Understanding basic LDAP concepts
- How to configure and manage Red Hat Directory Server
- Managing user authentication with PAM
- Using Kerberos and LDAP to centrally manage user authentication
- Using LDAP referrals and replication with Directory Server
- Exploring options for integration with Microsoft Windows authentication

Follow-on Courses
(can be taken in any order)

RHS333 Enterprise Security: Securing Network Services (p. 21)
RH401 Red Hat Enterprise Deployment and Systems Management (p. 22)
RH436 Red Hat Enterprise Storage Mgmt. (p. 24)
RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 25)

RH423: 4 DAYS/$2898*

CA	Mountain View 2/18
CO	Denver 1/28
GA	Atlanta 5/5
IL	Chicago Oakbrook 2/25
MD	Columbia 2/18
NY	NYC/Microtek 12/3
TX	Dallas/Microtek 1/7
VA	DC (Tysons Corner) 2/4, 5/12

Expertise Exam
EX423 Directory Services & Authentication
1 DAY $749* (or $549* when ordered with class)

Upon passing the exam, one will have earned this additional Certificate of Expertise to one's RHCE certification. This credential is one of the five required in order to earn RHCA.

Dates: Fifth day of all courses listed at left.

"Really excellent course that has some meat in it."
Ellie Berriman, Network Appliance

RH436

RED HAT ENTERPRISE CLUSTERING AND STORAGE MANAGEMENT
Manage Red Hat Enterprise Linux deployments.

Course Description
RH436 provides intensive hands-on experience with storage management, Red Hat Cluster Suite, and the Shared Storage technology delivered by Red Hat Global File System™ (GFS). This 4-day course has a strong emphasis on hands-on lab activities using enterprise-class storage, servers, and auxiliary equipment. A portion of the final day of class is entirely given over to additional lab time so that course participants have ample time to practice Cluster Suite and GFS skills in a realistic environment before returning to production systems.

Prerequisites
RH253 at a minimum, RHCE certification preferred, or comparable skills and knowledge. All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests.

Goal
RH436 trains senior system administrators to deploy and manage shared storage and server clusters which provide highly-available network services to the mission-critical enterprise environment. This course delivers extensive training with storage management, Red Hat Cluster Suite, and the GFS cluster file system.

Audience
Senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

Course Objectives
- Review Red Hat enterprise clustering and storage management technologies
- Configuring udev device file management
- Using iSCSI shared storage devices
- Working with Linux software RAID technologies
- Configuring multipathing with Device Mapper
- Implementing and managing highly-available network services with Cluster Manager
- Creation and management of GFS file systems

Follow-on Courses
(can be taken in any order)
RHS333 Enterprise Security: Securing Network Services (p. 21)
RH401 Red Hat Enterprise Deployment and Systems Management (p. 22)
RH423 Red Hat Enterprise Directory Services and Authentication (p. 23)
RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 25)

RH436: 4 DAYS/$3998*

CA	Mountain View 3/3	CANADA
CO	Denver 3/24	ON Toronto 3/31
FL	Orlando 4/14	
GA	Atlanta 3/10, 4/28	
IL	Chicago Downtown 3/17	
MA	Boston(Westford) 2/11, 3/10	
MD	Columbia 2/4	
MN	Minneapolis 4/28	
NC	Raleigh 12/3, 3/19	
NY	NYC/Microtek 3/31	
TX	Austin/Executrain 3/3	
TX	Dallas/Microtek 12/17	
VA	DC (Tysons Corner) 5/5	

Expertise Exam
EX436 Storage Management
1 DAY $749* (or $549* when ordered with class)

Upon passing the exam, one will have earned this additional Certificate of Expertise to one's RHCE certification. This credential is one of the five required in order to earn RHCA.

Dates: Fifth day of all courses listed at left.

"The class gave me a chance to use some of the latest Linux tools, and was a reminder of the benefits of using Linux for high-availability systems."
Paul W. Frields, FBI - Operational Technology Division Quantico, VA, USA

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

Course Description
RH442 is an advanced four-day hands-on lab course covering system architecture, performance characteristics, monitoring, benchmarking, and network performance tuning.

Prerequisites
RHCT at a minimum, RHCE certification recommended, or comparable skills and knowledge.
All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests.

Goal
RH442 is designed to teach the methodology of performance tuning and capacity planning for Red Hat Enterprise Linux. This class will cover:

• A discussion of system architecture with an emphasis on understanding the implications of system architecture on system performance
• Methods for testing the effects of performance adjustments (benchmarking)
• Open source benchmarking utilities
• Methods for analyzing system performance and networking performance
• Tuning configurations for specific application loads

Audience
RH442 is aimed at senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

Course Objectives
• Overview of system components and architecture as they relate to system performance
• Translating manufacturers' hardware specifications into useful information
• Using standard monitoring tools effectively to gather and analyze trend information
• Gathering performance-related data with SNMP
• Using open source benchmarking utilities
• Network performance tuning
• Application performance tuning considerations
• Tuning for specific configurations

Follow-on Courses
(can be taken in any order)
RHS333 Enterprise Security: Securing Network Services (p. 21)
RH401 Red Hat Enterprise Deployment and Systems Management (p. 22)
RH423 Red Hat Enterprise Directory Services and Authentication (p. 23)
RH436 Red Hat Enterprise Storage Mgmt. (p. 24)

RH442: 4 DAYS/$2898*

CA	Mountain View 3/10
GA	Atlanta 1/28
IL	Chicago Downtown 1/28, 4/14
MA	Boston(Westford) 1/21
MD	Columbia 1/14, 4/14
NC	Raleigh 2/25, 5/5
NY	NYC/Red Hat 1/28, 4/7
TX	Austin/Executrain 5/12
TX	Dallas/Red Hat 1/28, 4/21
VA	DC (Tysons Corner) 3/10

Expertise Exam
EX442 System Monitoring & Performance Tuning
1 DAY $749* (or $549* when ordered with class)

Upon passing the exam, one will have earned this additional Certificate of Expertise to one's RHCE certification. This credential is one of the five required in order to earn RHCA.

Dates: Fifth day of all courses listed at left.

Red Hat offers a variety of web development courses covering topics that range from PHP to PostgreSQL, Apache and more. The combined courses, along with Red Hat's larger Linux curriculum, provides thorough hands-on instruction for all components of the LAMP solution stack. Web developers involved or interested in web development for large enterprise application projects may also be interested in our JBoss Middleware curriculum (see page 30).

RHD135 PHP for Web Developers and Programmers

For web developers and other programmers, this course provides a rapid introduction to the PHP scripting language for developing web applications. Topics include syntax, program flow and control statements, database connectivity and other essential areas.
4 days, $2198

RDB147 Red Hat Database Essentials

Designed for system administrators with a basic understanding of databases, this course provides instruction and hands-on lab activities on the features, architecture, and implementation of PostgreSQL.
4 days, $2298

RH320 Red Hat Apache and Secure Web Server Administration

This course is designed for Linux - and/or UNIX - systems administrators who want to configure and maintain an Apache web server running under Red Hat Enterprise Linux, incorporating CGI handlers, SSL security, dynamic content, and customization via modules. The course also covers Red Hat Application Server.
4 days, $2398

RH320: 4 DAYS/$2398*

MD   Columbia 3/10

RHD143: 5 DAYS/$2898*

CA   Santa Clara 3/17, 3/31
MA   Boston/Burlington 2/11, 5/5
MD   Columbia 4/7
NC   Raleigh 3/24
OR   Portland (Axian) 4/14

RHD221: 5 DAYS/$2898*

CA   Mountain View 2/25, 3/3
CA   Santa Clara 4/14
NC   Raleigh 1/21
OR   Portland (Axian) 5/19

RHD236: 5 DAYS/$2898*

CA   Mountain View 4/28
CA   Santa Clara 5/12
IL   Chicago Downtown 2/4
MA   Boston/Burlington 5/10
MD   Columbia 3/10
NY   NYC/Red Hat 3/17

RHD256: 4 DAYS/$2498*

CA   Mountain View 5/27
MD   Columbia 4/28

LINUX DEVELOPER
Courses

RHD143 Red Hat Linux Programming Essentials

An intensive hands-on course designed to rapidly train staff in key skills for developing applications and programs on Red Hat Enterprise Linux. This five-day course provides hands-on training, concepts, demonstrations, with emphasis on realistic labs and programming exercises. Upon completion of the course, students will have learned and practiced the essential skills required to develop programs for Linux systems. **5 days, $2898***

RHD221 Red Hat Linux Device Drivers

This course is designed to teach experienced programmers how to develop device drivers for Linux systems. Upon completion of the course, students will understand the Linux architecture, hardware and memory management, modularization, and the layout of the kernel source, and will have practiced key concepts and skills for development of character, block, and network drivers. **5 days, $2898***

RHD236 Red Hat Linux Kernel Internals

This course is designed to provide a detailed examination of the Linux kernel architecture, including process scheduling, memory management, file systems, and driving peripheral devices. This five-day course provides hands-on training, concepts, and demonstrations, with emphasis on realistic labs and programming exercises. **5 days, $2898***

RHD256 Red Hat Linux Application Development and Porting

A four-day developer course for experienced programmers who are already familiar with development on a UNIX-like system and want to develop new applications as well as port existing applications to Red Hat Enterprise Linux. **4 days, $2498***

> **Recent Baird/U.S. Equity study indicated that there are over three times more Linux developer job openings than Unix developer openings. Isn't it time you gained a competitive edge with Red Hat training?**

Job postings by desired technology skills

Linux Developer
Unix Developer

sources: Monster.com, RWBaird Analysis
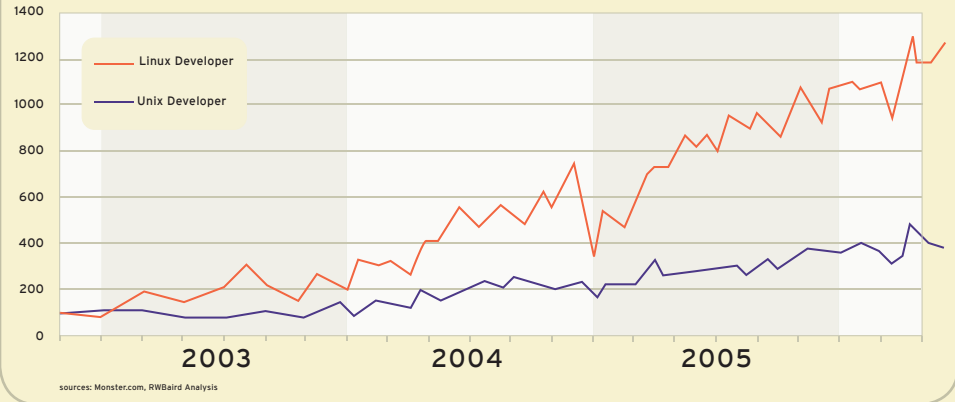
APPLICATIONS

Courses

Red Hat's application courses are designed to teach key concepts and skills essential to specific technologies such as Red Hat Directory Server, Red Hat Network Satellite, Red Hat Certificate System, open source databases, and more. Upon completion of these courses, students will have learned and practiced the essential skills required to use these critical technologies within their infrastructure.

RH141 Red Hat Directory Server Fast Track Course

This course teaches participants directory server fundamentals and basic Red Hat Directory Server administration in a rapid track two day format, focusing on the essential aspects of managing and maintaining the directory server. It introduces LDAP, including how to understand a directory and search it for information. It then shows how to set up the Red Hat Directory server and how to administer it.

On-site delivery only. Call US 1-866-273-3428 x45555 to inquire about pricing.

RH145 Red Hat Directory Server Administration

This course teaches users directory server fundamentals and basic Red Hat Directory Server administration. It introduces the LDAP system, then shows how to set up the Red Hat Directory server and how to administer it using access control instructions, plugins, referrals, and replication.
4 days, $2398

RDB147 Red Hat Database Essentials

Designed for system administrators with a basic understanding of databases, this course provides instruction and hands-on lab activities on the features, architecture, and implementation of PostgreSQL.
4 days, $2298

RH184 Red Hat Enterprise Linux Virtualization

The RH184 Red Hat Enterprise Linux Virtualization course teaches system administrators how to deploy virtualized versions of Red Hat Enterprise Linux, thus taking greater advantage of hardware and other resources.
2 days, $1498

RH320 Red Hat Apache and Secure Web Server Administration

This course is designed for systems administrators who want to configure and maintain an Apache web server running under Red Hat Enterprise Linux, incorporating CGI handlers, SSL security, dynamic content, and customization via modules. The course also touches on Red Hat Application Server.
4 days, $2398

RH184: 2 DAYS/$1498*

USA
CA   L.A. (Anaheim) 5/27
CO   Denver 5/27
FL   Orlando 5/27
GA   Atlanta 3/31, 5/27
IL   Chicago Downtown 4/28
IL   Chicago Oakbrook 3/17, 5/19
IN   Indianapolis 5/12
MA   Boston (Westford) 3/31, 5/27
MD   Columbia 3/3, 4/21, 5/5, 5/19
NC   Raleigh 3/24, 4/14, 5/27
NY   NYC/Red Hat 3/31, 5/27
TX   Austin/Executrain 3/24, 4/7, 5/27

TX   Austin/St.Edwards 12/10
VA   DC (Tysons Corner) 3/31, 4/14, 5/27
WA   Seattle 4/7

CANADA
ON   Toronto 5/5

RH320: 4 DAYS/$2398*

MD   Columbia 3/10

RHS435: 4 DAYS/$2898*

CA   Santa Clara 10/15
MD   Columbia 8/20
NC   Raleigh 8/13, 10/29

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

RH409 Red Hat Network Satellite Server Fast Track Course

Red Hat Network is an easy-to-use systems management platform. Red Hat Network Satellite Server allows all hosted Red Hat Network functionality to be staged on customers' systems within their network. This course is designed to train people with RHCE-level competency on skills required to deploy and manage this technology.

On-site delivery only. Call US 1-866-273-3428 x45555 to inquire about pricing.

RHS435 Red Hat Enterprise Certificate Management

This course teaches systems engineers to administer and use the Red Hat Certificate System, the leading open source identity management solution that manages and validates certificates.
4 days, $2898

"The labs were excellent for me to be able to take the instructor's lecture and apply it. For me to have never seen Linux or Apache before and to be able to do the labs was great."

Jess Moore, SQL Server DBA, Perdue Farms, Inc.

MARC CURRY, Red Hat Instructor, demonstrates how to deploy virtualized versions of Red Hat Enterprise Linux using Xen virtualizaton technology during **RH184** Red Hat Enterprise Linux Virtualization class.

JBOSS MIDDLEWARE TRAINING

Straight from the source.

JBoss, now a division of Red Hat, offers the training to expertly use JBoss Enterprise Middleware System (JEMS) technology. JBoss courses are divided into the JBoss Enterprise Application Platform curriculum and the JBoss Enterprise Framework Platform curriculum. Courses can be taken within one curriculum or mixed and matched to meet your JBoss training needs.

The **JBoss Enterprise Application Platform** curriculum consists of courses critical to for success with JEE and SEAM using the JBoss Application Server and MetaMatrix data services and MetaData management. This curriculum has the JBoss Applicaton Server as the target platform, focusing on SEAM and JEE APIs.

The **JBoss Enterprise Framework Platform** curriculum empowers individuals to enable and optimize the JBoss Enterprise SOA. This curriculum teaches skills essential for use with JEE Application Server or with simple JSE applications.

JBOSS ENTERPRISE

APPLICATION		FRAMEWORK	
JB161 JBoss and EJB3 for Java Developers	**JB167** Hibernate Essentials	**JB163** JBoss Portal	**MM157** MetaMatrix Introduction
JB170 JBoss SEAM Essentials	**JB453** JBoss ESB	**JB267** JBoss Advanced Hibernate	**JB439** JBoss Clustering
JB261 JBoss for Advanced J2EE Developers	**JB336** JBoss for Administrators	**JB449** JBoss jBPM	**JB451** JBoss Rules

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

Course Description

This course provides an in-depth introduction to JBoss, EJB3 and J2EE, and is ideal for students with Java experience wishing to deepen their knowledge. The JBoss and EJB3 for Java Developers course is recommended for individuals who wish to progress to the JBoss for Advanced J2EE Developers course.

JBoss and EJB3 for Java Developers is targeted toward proficient Java developers who wish to extend their knowledge to EJB3 and J2EE middleware programming using the JBoss Application Server. This class is an in-depth introduction to EJB3 and J2EE using the JBoss Application Server. It provides a hands-on approach to EJB3 and J2EE application development, deployment and the tools necessary to facilitate both processes.

Prerequisites

Basic Java programming skills and knowledge of OOAD concepts are required. The student must have practical knowledge of, and/or experience with, the following:

- The object-oriented concepts of inheritance, polymorphism and encapsulation
- Java syntax, specifically for data types, variables, operators, statements and control flow
- Writing Java classes as well as using Java interfaces and abstract classes
- Using Java collections
- Handling Java exceptions
- Using the JDK and creating the necessary environment for compilation and execution of a Java executable from the command line.

No prior knowledge of J2EE or the JBoss Application Server is required. This training is based on JBoss Enterprise Application Platform.

Course Objectives

- Introduction to J2EE and EJB3
- Servlets
- Java Server Pages
- Java Server Faces
- Naming Services and JNDI
- Introduction to EJB3
- EJB3: Stateless Session Beans
- EJB3: Stateful Session Beans
- Java persistence API
- Transaction Assembly
- J2EE Security and JBoss
- EJB3: Message Driven Beans (MDB) and the Java Message Service (JMS)
- EJB3 Interceptors
- Web Services with EJB3

JB161: 4 DAYS/$2298
TRAINING UNITS (TUs): 12 TUs

USA
CA   Santa Clara 4/14
IL   Chicago Oakbrook 3/3
MD   Columbia 12/4, 5/12
NY   NYC/Microtek 12/18
TX   Dallas/Microtek 12/11, 3/17
VA   DC (Tysons Corner) 5/5

CANADA
ON   Toronto Ontario 4/15

JB167

JBOSS - HIBERNATE ESSENTIALS
JBoss Enterprise Application Track

Course Description
The Hibernate Essentials course is recommended for Java developers who must become competent with a Hibernate or a Java Persistence API object/relational persistence and query service implementation. Both implementations provide powerful APIs to develop persistent classes following the object-oriented idiom. Both implementations support the use of association, inheritance, polymorphism, composition and collections with persistent classes. To fully utilize persistent class implementations, the student will also learn how to create and execute queries using EJB-QL, the portable Hibernate SQL extension (HQL), native SQL and the object-oriented Criteria and Example API.

The Hibernate Essentials course is a prerequisite to the RHD267 - Advanced Hibernate course. A student must attend the Hibernate Essentials course, or have comparable experience, before taking Advanced Hibernate.

Prerequisites
An understanding of the relational persistence model

JB167: 3 DAYS/$2498
TRAINING UNITS (TUs): 10 TUs

CA	San Francisco 3/10
GA	Atlanta 12/17, 4/7
MO	St. Louis 3/17
NY	NYC/Microtek 5/5

Competency with the Java language
- Knowledge of OOAD concepts
- Familiarity with the UML
- Experience with a dialect of SQL
- Using the JDK and creating the necessary environment for compilation and execution of a Java executable from the command line
- An understanding of JDB
- An understanding of the relational persistence model

No prior knowledge of J2EE or Hibernate is required. This training is based on Hibernate 3.2 series.

Audience
Hibernate Essentials is targeted toward Java developers who must become competent with the Hibernate or the Java Persistence API object/relational persistence and query service implementation. The primary audience is intended to be Java developers who work with SQL-based database systems or database developers who are looking for an introduction to object-oriented software development. Database administrators who are interested in how ORM may affect performance and how to tune the performance of the SQL database management system and persistence layer will also find this course of value. This course covers the JBoss, Inc. implementation of the JSR-220 sub-specification for Java Persistence and it covers the foundational APIs of version 3.x of the JBoss, Inc. Hibernate product, or simply, Hibernate 3.

Course Objectives
- Understanding object/relational persistence
- Getting started with Hibernate
- Mapping Persistent Classes
- Working with Persistent Objects
- Transactions and Concurrency
- Advanced Mapping Concepts
- Retrieving Objects
- Queries
- Caching
- Application Design and Architecture
- The Hibernate Toolset
- Hibernate, Java Persistence and EJB3

*Enroll today: 1-888-626-2994 or go to www.redhat.com/explore/training for updated schedule and to enroll.

JB170 JBOSS SEAM ESSENTIALS

Course Description
JBoss Seam is a powerful new application framework for building next generation Web 2.0 applications by unifying and integrating technologies such as Asynchronous JavaScript and XML (AJAX), Java Server Faces (JSF), Enterprise Java Beans (EJB3), Java Portlets and Business Process Management (BPM). The JBoss Seam Essentials course covers the JBoss Seam framework and various core features such as context, conversation, component essentials,events and error handling, jBPM, administration & configuration with JBoss application server and Tomcat web server, Facelets, JSF & EJB3 essentials, Rich client applications, security, as well as new and exciting features in the JBoss Seam framework.

Prerequisites
A solid background in Java programming is necessary. The RHD 167 Hibernate Essentials course or equally comparable HIbernate/JPA experience is a prerequi-site. Students must be familiar with the JEE (Java EE 5) Specification, the Enterprise JavaBeans 3 Specification, and the Persistence Framework (JPA).

Students also should have a sound understanding of web and/or application servers (e.g. Tomcat or JBoss).

Audience
The JBoss Seam Essentials course is targeted toward Java developers constructing enterprise and next-generation Web 2.0 applications wanting to become more proficient and productive during development using JBoss Seam, the lightweight JEE (Java EE 5) application framework.

The RHD 167 Hibernate Essentials course is a prereq-uisite. A student must attend the Hibernate Essentials course, or have comparable experience, before taking RHD 187 JBoss Seam Essentials.

Course Objectives
- JBoss Seam Introduction
- Enterprise JavaBeans 3.0 Component Framework
- JavaServer Faces Framework and Facelets
- JBoss Seam Tooling and Projects
- JBoss Seam Component Model
- JBoss Seam Context Model
- JBoss Seam Application Framework
- JBoss Seam Events, Exceptions & Interceptors
- JBoss Seam Testing Framework
- JBoss Seam Advance Features Overview
3 Days/$2,498

JB453 JBOSS ESB

Course Description
JBoss Enterprise Service Bus (ESB) provides a service-oriented architecture (SOA) platform to integrate business components and services into automated business processes. This course covers the JBoss ESB 4.2 and its various services, including: registries, transfor-mation services, routing, web services, rules services, and service orchestration.

Prerequisites
Pre-requisite skills for this course are:
- Basic Java competency
- Some understanding of messaging and message oriented middleware
- Some understanding of Web services and related standards (SOAP, WSDL)
- No Java EE specific experience is required for the course, but students who need to know how to integrate with Java EE will obviously need appropriate experience

Audience
JBoss ESB training is targeted at system architects and application developers, with some experience with Java and messaging technology, who want to use the JBoss ESB to create and / or integrate applications using a service oriented architecture.
2 days/$1,998

JB170 SEAM: 3 DAYS/$2498

USA		CANADA	
CA	Santa Clara 3/24–3/26	ON	Toronto 5/12–5/14
GA	Atlanta 4/21–4/23		
NJ	Edison 5/27–5/29		
NY	NYC/Microtek 3/17–3/19		

JB453 JBOSS ESB: 2 DAYS/$1998

USA		CANADA	
CA	Santa Clara 3/27–3/28	ON	Toronto 5/15–5/16
GA	Atlanta 4/24–4/25		
NY	NYC/Microtek 3/20–3/21		

JB261 | JBOSS FOR ADVANCED J2EE DEVELOPERS

JBoss Enterprise Application Track

Course Description
This course provides the necessary knowledge regarding the implementation of the JBoss microkernel, the JBoss security framework, and interceptor based approach to building component containers.

Prerequisites
It is highly recommended that students either complete the JBoss for Java Developers course OR have comparable work experience prior to registering for the JBoss for Advanced J2EE Developers course. The developer should have practical experience with each of the following topics:
- JNDI
- JDBC
- Servlets and JSPs
- Enterprise Java Beans
- JMS
- The J2EE Security Model

- J2EE application development and deployment on the JBoss Application
- Experience with ANT and XDoclet or similar technologies.

While prior knowledge of JMX is helpful, it is not required. This training is based on the JBoss Enterprise Application Platform.

Audience
JBoss for Advanced J2EE Developers is targeted toward J2EE professionals who wish to take advantage of the JBoss Application Server internal architecture to enhance the functionality and performance of J2EE applications on the JBoss Application Server. This course covers topics such as JMX and those beyond the J2EE specification such as Microkernel architecture, Security, Clustering, and Fine Tuning.

Course Objectives
- JBoss Architecture Overview
- JMX in JBoss
- JBoss Microkernel
- JBoss Smart Proxies
- EJB Container
- Introduction to EJB3
- Aspect Oriented Middleware
- JBossCache
- EJB Clustering
- Fine Tuning JBoss Application Server
- Security in JBoss
- JBossMQ

JB261: 4 DAYS/$2998
TRAINING UNITS (TUs): 12 TUs

CA   Santa Clara 12/4, 4/28
IL   Chicago Oakbrook 12/18, 3/10
MD   Columbia 5/27

"I thought the training materials were well-organized, including both the handbook and the labs. The instructor frequently asked for feedback on material and pace. It was apparent that he cared about our understanding of the material."

Jeremy Prellwitz, SiRAS.com, USA

Course Description

JBoss Administration is targeted toward application support individuals, such as system administrators, configuration management and quality assurance personnel who wish to become proficient in configuring and administrating the JBoss application server (3.2.x and 4.x series) and the applications deployed on the application server.

Prerequisites

Basic working knowledge of the Windows or Linux (Unix-based) operating system. The student must have experience with the following:

- Creating directories, files and modifying access rights to the file store
- Installing a JDK
- Configuring environment variables, such as JAVA_HOME, for an operating system

- Launching Java applications and executing an OS-dependent script that launches a Java application.
- Creating and expanding a Java archive file (the jar utility)

No prior knowledge of J2EE or the JBoss Application Server is required. Some familiarity with supporting Java applications with XML configurations, however, is strongly recommended. This training course targets JBoss Enterprise Application Platform

Audience

This course is targeted at systems administrators who wish to become proficient in administering JBoss Application Server instances. This course focuses on installation and deployment issues with the JBoss Application Server as well as configuring the server for production usage and managing and monitoring production environments.

Course Objectives

- JBoss Application Server Architecture
- Installing JBoss Application Server
- JBoss Basic Deployments
- Installation of JBoss ON
- JBoss ON User Interface
- JBoss Production Installation
- JBoss Production Deployments
- Introduction to JBoss and J2EE Security Concepts
- Securing JBoss Services
- Middleware Clustering
- Troubleshooting

JB336c JBoss for Administrators (w/o JBoss ON)

This two-day course covers the same topics as JB336 JBoss Administration, with the exception of JBoss Operations Network (ON).

Course Objectives

- JBoss Application Server Architecture
- Installing JBoss Application Server
- JBoss Basic Deployments
- JBoss Production Installation
- JBoss Production Deployments
- Introduction to JBoss and J2EE Security Concepts
- Securing JBoss Services
- Middleware Clustering
- Troubleshooting
- **2 days, $1,698, 7 TUs**

JB336: 2 DAYS/$2498
TRAINING UNITS (TUs): 7 TUs

USA
CA   Santa Clara 5/27
GA   Atlanta 3/17
IL   Chicago Oakbrook 3/31, 4/28
NJ   Edison 4/14
NY   NYC/Microtek 1/29
TX   Dallas/Microtek 12/4
TX   Houston 5/19

CANADA
ON   Toronto 3/25

"The JBoss Administration course has a great balance of both lecture and labs. It is always nice to have hands-on knowledge of the topics to make it more real and applicable."

Thomas Skowronek, Palm Harbor Homes, USA

JB163 JBOSS PORTAL
JBoss Enterprise Framework Track

Course Description

This is a 3-day training focusing on web tier technologies in the JBoss Enterprise Middleware System (JEMS) product stack.

JBoss Portal focuses on web tier technologies in the JBoss Enterprise Middleware System (JEMS) product stack. We cover details on JBoss Portal, how to create and deploy portlets, integrating portlets with other web tier frameworks such as JavaServer Faces (JSF) and configuring and tuning the Tomcat web container embedded in JBoss Application Server. Familiarity with JSP and Servlet development and related specification is heavily recommended. No previous experience with Portlets or JSF is required.

Prerequisites

The prerequisite skills for this class are basic J2EE Web Container (Servlet/JSP) programming skills and some experience with J2EE Web-based and multi-tier application deployments on the JBoss Application Server in conjunction with the Tomcat container (whether embedded with Apache or integrated with the JBoss Application server). The student should have development experience with the following technologies:

- JNDI
- The Servlet 2.3/2.4 API
- The JSP 2.0 API
- J2EE application development and deployment on the JBoss Application Server
- Deployment of a Web Application on embedded (stand alone) Tomcat or on integrated Tomcat (JBossWeb)

A working knowledge of JDBC and EJB2.1 or EJB3.0 while not a prerequisite, is helpful.

Course Objectives

- JEMS Web Tier Architecture Overview
- Installing and Configuring JBoss Portal
- Portlet Overview
- Portlet Programming Model
- Portlet Interaction with Servlets and JSP
- User and Group Management
- Personalization
- Localization and Security
- Java Server Faces for Application Developers
- Advanced Servlet and JSP
- Tomcat Architecture
- Tomcat Connectors
- JEMS Web Tier Clustering

JB163: 3 DAYS/$2498
TRAINING UNITS (TUs): 10 TUs

GA   Atlanta 5/19
MA   Boston/Burlington 3/3
MO   St. Louis 5/27
NY   NYC/Microtek 12/11, 4/21
VA   DC (Tysons Corner) 4/14

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Course Description

MM157 MetaMatrix Introduction gives the student an opportunity to gain a clear understanding and basic level of expertise in applying MetaMatrix's model-driven approach to creating and deploying data services and Metadata Management. The Introductory class presents a complete overview of the entire MetaMatrix product suite and an opportunity for extensive hands-on use of the MetaMatrix Enterprise Designer. This is accomplished through a number of exercises geared towards the implementation of a complete data services, metadata management, integration framework. The class covers both basic & complex concepts as well as an introduction to an array of best practices.

Prerequisites

Experience with the following technologies is strongly recommended:
- SQL/RDBMS
- Java
- Metadata or Data Modeling

MM157: 2 DAYS/$1249
TRAINING UNITS (TUs): 5 TUs

For schedule refer to:
www.redhat.com/explore/training

In addition, exposure to the following technologies will also be useful:
- UML
- Procedural Programming
- XQuery
- Web Services

Goal

A Red Hat MetaMatrix user who understands how to use and administer MetaMatrix tools.

Audience

Red Hat MetaMatrix users and potential Red Hat MetaMatrix users. Introductory training is recommended for:

- software architects engaged in SOA planning and/or implementation.
- software architects doing design work for systems integration, application development, and/or model implementation
- data modelers preparing for modeling design/implementation of a MetaMatrix solution
- architects or developers designing/implementing an integrated data security environment
- developers requiring integration support for implementation of a new applications.

Course objectives

This introduction presents a complete overview of the entire MetaMatrix product suite and an opportunity for extensive hands-on use of the MetaBase Modeler, Administrative Console, and Query Builder (a web-based query test tool). This is accomplished through a number of exercises geared towards the implementation of a complete metadata management & modeling framework the class covers basic as well as complex concepts, and introduces an array of best practices. Introductory training enables users to quickly "ramp-up" for the rapid deployment of the MetaMatrix solution.

Course outline

- Technical Overview Presentation of MMX and Training Scenario
- Installation and Overview of the MMX Designer
- Data Source Modeling
- VDB Testing Using SQL Explorer
- Creation of a Virtual Base Layer
- Union federated data sources
- Joins across federated data sources
- Virtual Procedure Modeling
- Virtual XML Document Modeling
- WS Modeling
- Relational to WS Modeling
- **2 Days/ $1249, 5 TUs**

JB267 | JBOSS ADVANCED HIBERNATE
JBoss Enterprise Framework Track

Course Description
The Advanced Hibernate course is recommended for individuals who are familiar with Hibernate and wish to become experts on Hibernate 3.

Please notice that for people new to Hibernate, the Hibernate Essentials class is recommended before attending the Advanced Hibernate course.

Prerequisites
- Basic Hibernate knowledge.
- Competency with the Java language
- Knowledge of OOAD concepts
- Familiarity with the UML
- Experience with a dialect of SQL.
- Using the JDK and creating the necessary environment for compilation and execution of a Java executable from the command line.

Experience with, or comprehensive knowledge of JNDI and JDBC. Entity EJB2.1 or EJB3.0 knowledge, while not a prerequisite, is helpful. Prior reading of the book Hibernate in Action, by Christian Bauer and Gavin King (published by Manning) is recommended.

Audience
Advanced Hibernate training is targeted toward Java developers who wish to extract the full power of the Hibernate O/R Mapping framework. The primary target audience consists of Java developers who work with SQL-based database systems, database developers who are looking for an introduction to object-oriented software development and database administrators interested in how ORM affects performance and how to tune the performance of the SQL database management system and persistence layer. The training covers the new Hibernate 3 features.

Course Objectives
- Advanced class and property mappings
- Associations and collections
- Transactional processing
- Querying and fetching data
- Application design
- Legacy system integration
- Deployment and administration
- Tuning

JB267: 2 DAYS/$1998
TRAINING UNITS (TUs): 7 TUs

CA	San Francisco 4/7
GA	Atlanta 12/20, 4/14
MO	St. Louis 3/31
NY	NYC/Microtek 5/27

"The best part of the Advanced Hibernate course was networking with fellow engineers that had problems similar to my own, and working with a knowledgeable instructor to solve them."

Mike Pasternak, Consulting Engineer,
United Switch & Signal

Course Description
Clustering is an advanced course focusing on the high availability services of the JBoss Enterprise Middleware System (JEMS), including JGroups, JBoss Cache, load balancing, and more.

Prerequisites
Completion of the JBoss for Advanced J2EE Developers course is strongly recommended before taking this course. It is also strongly recommended that the student has at minimum 18 month practical development experience using J2EE and other Java middleware technologies, and it is suggested that the student have some practical experience with JBoss Application Server. Solid Java programming experience (minimum 3 years) is required and understanding of basic TCP/IP topics is necessary.

The student must have the following skills:
- JTA, Transactions, Java concurrency
- EJB 2.1, JMS, reliable messaging technologies
- Previous experience with Apache httpd and some exposure to mod_jk and/or mod_proxy
- Familiar with JBoss AS microkernel and JMX
- Familiarity with TCP/IP, UDP, Multicasting

Audience
Clustering is a 4-day training focusing on high availability services of JBoss Enterprise Middleware System (JEMS). You will learn how JBoss Application Server leverages JGroups and JBoss Cache for replication and fail-over, how to configure, tune and implement JGroups protocol stacks, how to leverage JBoss Cache in your own middleware application implementation and how to use and configure mod_jk for HTTP load balancing. We will also cover in some detail JBoss Application Server high availability services such as HA-JNDI, HA-JMS and HA-singleton.

Course Objectives
- Overview to JEMS High Availability Services
- Reliable Multicasting with JGroups
- JGroups Protocols
- Protocol Stacks and Implementation
- JGroups Building Blocks and Troubleshooting
- JBoss Cache Overview and API
- Cache Loaders and Eviction Policies
- Cache Replication, Transactions and Isolation Levels
- JBoss Cache AOP Overview and API
- JBoss Cache AOP Implementation
- Web Tier Load Balancing and Failover
- EJB Load Balancing and Failover
- JEMS Clustered Services
- JMS Failover and Load Balanced MDB

JB439: 4 DAYS/$2998
TRAINING UNITS (TUs): 12 TUs

MA   Boston (Westford) 4/14
MO   St. Louis 5/12
NJ   Edison 3/24

"The JBoss for Administrators course was very informative. Our instructor did a great job at answering our questions (some very specific to the student) while maintaining the course direction. I am very excited about applying what I have learning in the course."

Andy Beier, Arizona Statue University, USA

JB449 | **JBOSS jBPM**
JBoss Enterprise Framework Track

Course Description

JBoss jBPM training was developed for middleware architects and application developers who responsible for designing business processes, implementing business process management systems, and integrating BPM into their enterprise architecture. The JBoss jBPM training will provide students with a thorough understanding of the jBPM product. Students will acquire practical hands on expertise and will be ready to start developing business processes with JBoss jBPM after the course. The course teaches process modeling, task management, client APIs, integration and customization, and related topics.

Prerequisites

- Basic Java competency.
- Some experience with Eclipse.
- Some experience with JUnit test framework inside Eclipse is recommended but not required.
- Some experience with Hibernate is recommended but not required.

Audience

The JBoss jBPM training is targeted at middleware architects and application developers, with zero to moderate experience with BPM technology, who work closely with business analysts and are responsible for process enabling applications and/or implementing enterprise-wide business process management systems using jBPM as a business process management system.

Course Objectives

- jBPM Overview
- Basic Process Modeling
- The Graphical Process Designer
- Deployment
- Client Programming
- Advanced Process Modeling Concepts
- Integration
- Pluggable Architecture
- Persistence
- Context
- Task Management
- Web Forms
- Introduction to BPEL

JB449: 3 DAYS/$2498
TRAINING UNITS (TUs): 10 TUs

IL	Chicago (Oakbrook) 12/10
MA	Boston (Westford) 5/5
MO	St. Louis 4/21
VA	DC (Tysons Corner) 3/10, 3/24

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Course Description

The course covers Drools 4.0, including the various languages that can be used to author business rules, the Business Rule Management System, forward chaining and the RETE algorithm, advanced rule authoring, execution control, ruleflow, and performance considerations and debugging.

Prerequisites

- Basic Java competency
- Some familiarity with Eclipse

Audience

JB451 JBoss Rules is targeted at middleware application developers, with zero to moderate experience with rule technology. Developers who need to use rule technologies to manage their applications business logic, and integrate the rule engine with their application would get value from this course.

Further to this, application architects or advanced developers looking to improve approaches to business logic management in their applications would also find this course of value - it also serves as an introduction to rule based technologies.

Course Objectives

- Understanding rule engines and overview
- Introduction to JBoss Rules
- Rule Engine Concepts
- Applying JBoss rules
- Rule formats: Decision Tables
- Rule formats: Domain Specific Languages
- The RETE Algorithm

JB451: 2 DAYS/$1998
TRAINING UNITS (TUs): 12 TUs

IL	Chicago (Oakbrook) 12/13
MA	Boston (Westford) 5/8
MO	St. Louis 4/24
VA	DC (Tysons Corner) 3/13, 3/27

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none	**"JumpStart"**[†] Code: 45901	RH033 5 days $2398*	RH133 4.5 days $2698*				**RHCT**	**$4696.48*** *Reg. $5096*	$399.52*
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[†] Also available with RH035 course. Visit www.redhat.com/explore/bundles
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For JBoss on-site training, please call US 1-404-467-8555

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