

More of What You Need, When You Need It

Novell Adds Several New Courses to On-demand Training

The [Novell On-demand Training](#) direction is simple and it just happens to be filling the biggest customer-satisfaction need for Novell training customers: making courses available to as many users as possible in an easily consumable way. Novell is moving into Web-based e-learning to meet the needs of students who don't have classroom training available in their area or, with this economy, in their budget.

In the April issue of [Novell Connection](#), the article "[What You Need, When You Need It: Getting Novell On-demand Training When You Want It Wherever you Are](#)" introduced the value of On-Demand Training, a delivery method that provides a convenient and flexible way to access Novell training courses that is available whenever and wherever you are from within a browser. (Check out the complimentary On-demand Training Courses [here](#) so you can actually experience them.)

The perfect option if you do not have the time or budget for onsite or even scheduled online classroom training, On-demand Training eliminates the need for you to take time away from work for travel and training. It reduces expenses and lost productivity while still giving you the expertise you need to remain competitive. With On-demand Training, Novell is also able to more easily reach students who prefer the digital type of learning experience, a group of us that is obviously growing every day.

"[What You Need, When You Need It](#)" focused on the value, flexibility, convenience, quality and content provided by this important training option. In regard to this last benefit—content—we noted that at the time, Novell was offering 40 courses for new product users, administrators, technical experts and end users. Furthermore, we promised that Novell would be providing an even more diverse and ever-growing library that covers the spectrum of Novell solutions.

That time is now. New users, as well as those holding current one-year subscriptions will have access not only to the original library but to many exciting courses being unveiled within the year. These include four important SUSE Linux Enterprise 11 courses that are available this month and two more that will be added by the end of the year. Stay tuned in an upcoming issue to read more about the other two courses.

> **Four New SUSE Linux Enterprise 11 Courses Now Available**

Four new courses in the On-demand Training library have now been made available in the high-level training that previously were available only through Partner-led training and self-study kits. The first of these four courses provide training at a novice and intermediate level that will help you prepare to pass the [Certified Linux Administrator](#) (CLA) 11 certification [exam # 050-720](#) and become a CLA. The others prepare you for the [Certified Linux Professional](#) (CLP) 11 [Practicum exam](#), and the planned Certified Linux Desktop Professional (CLDP). These important credentials and exams demonstrate and prove your abilities to current and prospective employers. And as we all know, enough can't be said about taking care of yourself in that regard.

Before we jump into deeper descriptions of each course, you should know a bit more about the learning paths. If you're going for more skills for the server, you'll want to take 3101, then 3102 and then 3103. If you want to focus on the desktop, start with the same first two courses, 3101 and 3102, then take 3104. For more information about the CLA learning path, click [here](#). For more information on the CLP learning path, click [here](#).

> **SUSE Linux Enterprise 11 Fundamentals (Course 3101 v1)**

Want to learn the basics of SUSE Linux Enterprise 11? Interested in becoming a Certified Linux Administrator? This course is for you.

Designed for beginners, this course requires you to have only basic computer skills on any operating system. This course is ideal for you if you have little or no experience with any distribution of Linux or if you are specifically seeking a fundamental understanding of the [SUSE Linux Enterprise 11](#) operating system. A course that would usually take three days when delivered as Partner-led training, the On-demand version of this course enables you to complete it at your own pace, taking either more or less time. In addition, you can go back and repeat sections or the entire course as often as you want or need to. It introduces you to the fundamentals of Linux and helps you gain a basic understanding of the core features of the SUSE Linux Enterprise 11 operating system. It is also the first of a two-course path towards the CLA 11 exam.

Participants are taught essential skills that are prerequisites for entry-level Linux administrators or help desk technicians. These include:

- First steps with Linux
- Use the Linux desktop
- Locate and use Help resources
- Manage Linux file system
- Work with the Linux shell and command line
- Administer Linux with YaST
- Manage user, groups and permissions
- Use Linux text editors
- Manage software with RPM

Click [here](#) to see a full outline for Course 3101.

Course Outline - SUSE Linux Enterprise 11 Fundamentals (Course 3101 v1)

Section 1: First Steps with Linux

- Overview of the Linux Desktop
- Use the GNOME desktop environment
- Access the command line interface from the desktop

Section 2: Locate and Use Help Resources

- Access and use man pages
- Use info pages
- Access release notes and white papers
- Use GUI-based Help
- Find Help on the Web

Section 3: Manage Linux File System

- Understand the File System Hierarchy Standard (FHS)
- Identify file types in the Linux system
- Change directories and list directory contents
- Create and view files
- Work with files and directories
- Find files on Linux
- Search file content

Section 4: Work with the Linux Shell and CLI

- Get to know the command shells
- Understand the multiuser environment
- Execute commands at the command line
- Get to know common command line tasks
- Understand command syntax and special characters
- Use piping and redirection

Section 5: Administer Linux with YaST

- Get to know YaST
- Network-config with YaST
- Add a printer

- Software management with YaST
- Understand the role of SuSEconfig

Section 6: Manage Users, Groups, and Permissions

- Manage user and group accounts with YaST
- Describe basic Linux user security features
- Manage user and group accounts from the command line interface
- Manage file permissions and ownership
- Ensure file system security

Section 7: Use Linux Text Editors

- Get to know Linux text editors
- Use the editor vi to edit files

Section 8: Manage Software with RPM

- Manage RPM software packages
- Manage RPM software sources/catalogs with Zypp
- Update and patch SUSE Linux Enterprise

> SUSE Linux Enterprise 11 Administration (Course 3102 v1)

Are you looking to develop basic administration skills for SUSE Linux Enterprise 11? Are you preparing to take the Certified Linux Professional Practicum? Here's what you should know.

This intermediate course is designed for you if you're a system administrator who needs to become more familiar with the Linux operating system. It's also ideal if you want to prepare for the Novell CLA 11 Exam. Before taking Course 3102, you should have a fundamental knowledge of the Linux operating system, which you might have from just diving in and using it, or you can gain that knowledge through Course 3101 – SUSE Linux Enterprise 11 Fundamentals or an equivalent course.

Completion of this course prepares you for the [CLA 11 exam # 050-720](#). A course that would normally take 5 full days via Partner-led training, it will help you master the following concepts and skills fundamental to understanding SUSE Linux Enterprise 11:

- Install SUSE Linux Enterprise Server 11
- Manage system installation
- Administer Linux processes and services
- Administer storage in a Linux environment
- Configure the network
- Manage hardware
- Configure remote access
- Monitor SUSE Linux Enterprise Server 11
- Automate tasks
- Manage backup and recovery
- Administer user access and security

Click [here](#) to see a full outline for Course 3102.

Course Outline - SUSE Linux Enterprise 11 Administration (Course 3102 v1)

Section 1: Install SUSE Linux Enterprise

- Perform a SUSE Linux Enterprise 11 installation
- Configure the SUSE Linux Enterprise 11 installation
- Troubleshoot the installation process
- Install exercise for both SUSE Linux Enterprise Server and SUSE Linux Enterprise Desktop

Section 2: Manage System Initialization

- Describe the Linux load procedure
- GRUB (Grand Unified Bootloader)
- Manage Runlevels

Section 3: Administer Linux Processes and Services

- View and manage processes (kill, jobs, etc.)
- Manage daemon processes (/etc/init.d/script start, etc.)

Section 4: Administer Storage

- Select a Linux file system
- Configure Linux file system partitions
- Manage Linux file system
- Configure LVM and software RAID
- Set up and configure disk quotas

Section 5: Configure the Network

- Understand Linux network terms
- Manage the network configuration info from YaST
- Set up network interfaces with the ip tool
- Set up routing with the ip tool
- Test the network connection with CLI tools
- Configure host name and name resolution

Section 6: Manage Hardware

- Describe the difference between devices and interfaces
- Describe how device drivers work
- Describe how device drivers are loaded
- Manage kernel modules manually
- Describe the sysfs file system
- Describe how udev works
- Obtain hardware configuration info from YaST

Section 7: Configure Remote Access

- Provide secure remote access with OpenSSH
- Enable remote administration with YaST and VNC
- tsclient/rdesktop, nomad

Section 8: Monitor SUSE Linux Enterprise 11

- Monitor a SUSE Linux Enterprise Server 11 System
- Use system logging services
- Monitor login activity

Section 9: Automate Tasks

- Schedule jobs with cron
- Schedule jobs with at

Section 10: Manage Backup and Recovery

- Develop a backup strategy
- Back up files with YaST
- Create backups with tar
- Work with magnetic tapes
- Copy data with dd
- Mirror directories with rsync

Section 11: Administer User Access and Security

- Configure user authentication with PAM
- Manage and secure the Linux user environment
- ACLs
- Improve application security using AppArmor
- Create and manage profiles using AppArmor
- Control AppArmor
- Monitor AppArmor
- Use SuSEfirewall2

> SUSE Linux Enterprise Server 11 Administration (Course 3103 v1)

Are you looking to develop a more complete set of administration skills for SUSE Linux Enterprise 11? Are you preparing to take the Certified Linux Professional 11 Practicum? Read on.

SUSE Linux Enterprise Server is a highly reliable, interoperable and manageable server operating system that enables you to cost-effectively and securely deliver mission-critical services. This intermediate course is designed for you if you already have experience with Linux, including general system configuration and command line work. It's also ideal if you're seeking more administration skills on SUSE Linux Enterprise Server 11, and also if you have completed the two previous courses in the Novell CLP 11 curriculum, and if you're preparing to take the Novell CLP 11 Practicum. Before taking this course, it is highly recommended that you have a good working knowledge of Linux and should be able to handle the following tasks, all of which are taught in Courses 3101 and 3102:

- Install SUSE Linux Enterprise Server 11
- Perform partitioning and file system setup and maintenance
- Perform system configuration including network setup and user management
- Manage software packages
- Work on the command line including file management and text editing

Covering five days worth of material if taken via Partner-led training, this course covers the core elements of SUSE Linux Enterprise Server 11 administration, including topics such as:

- Configure fundamental networking services
- Manage printing
- Configure and use Open LDAP
- Configure and use Samba
- Configure a Web server
- Configure and use IPv6
- Perform a health check and performance tuning
- Create shell scripts
- Deploy SUSE Linux Enterprise
- Xen
- LiveFire Exercise

Click [here](#) to see a full outline for Course 3103.

Course Outline - SUSE Linux Enterprise Server 11 Administration (Course 3103 v1)

Section 1: Configure Fundamental Networking Services

- Configure NFS
- Configure time on SUSE Linux Enterprise Server 11
- Enable the Extended Internet Daemon (xinetd)
- Enable an FTP Server

Section 2: Manage Printing

- Configure CUPS
- Manage print jobs and queues
- Understand how CUPS works
- Configure and manage print server access
- Use the Web interface to manage a CUPS server

Section 3: Configure and Use Open LDAP

- Understand the basics of LDAP
- Install and set up an OpenLDAP server
- Add, modify and delete entries in the OpenLDAP database
- Query the OpenLDAP database
- Activate OpenLDAP authentication

Section 4: Configure and Use Samba

- Understand Samba
- Configure a simple file server
- Configure user Authentication
- Use the Samba client tools
- Use Samba as a domain controller
- Integrate Samba in a Windows domain
- Configure Samba as a print server

Section 5: Configure a Web Server

- Set up a basic Web server
- Configure virtual hosts
- Limit access to the Web server
- Configure Apache with OpenSSL
- Install PHP

Section 6: Configure and Use IPv6

- IPv6 theory
- IPv6 on SUSE Linux Enterprise 11

Section 7: Perform a Health Check and Performance Tuning

- Find performance bottlenecks
- Reduce system memory load
- Optimize the storage system
- Tune the network performance

Section 8: Create Shell Scripts

- Understand the course project
- Use basic script elements
- Understand variables and command substitution
- Use control structures
- Use arithmetic operators
- Read user input
- Use arrays
- Finalize the course project
- Use advanced scripting techniques
- Learn about useful commands in shell scripts

Section 9: Deploy SUSE Linux Enterprise

- Installation options and deployment strategies
- Installation server: set up and use
- Set up of PXE boot for installation
- Auto-installation basics
- The configuration file for AutoYaST
- Automated installation

Section 10: Xen

- Understand how virtualization with Xen works
- Install Xen
- Manage Xen domains with Virt-Manager
- Manage Xen domains from the command line
- Understand Xen networking

Section 11: LifeFire Exercise

> SUSE Linux Enterprise Desktop 11 Administration (Course 3104 v1)

Do you administer SUSE Linux Desktops in your enterprise? Want to prepare for the coming Certified Linux Desktop Professional exam? This course will help prepare you to pass it!

SUSE Linux Enterprise desktops can save your business money by reducing licensing costs and being more secure against virus attacks. In this intermediate course, you will learn how to install, configure and manage SUSE Linux Enterprise Desktops. It also

covers important administrative functions such as managing software and printing as well as how to tackle large scale desktop deployments in your business. You should be familiar with basic elements of Linux administration as well as the Windows desktop.

Coming soon to On-demand Training, Course 3104 is the culminating course in the SUSE Linux Enterprise desktop administrator curriculum. (Click [here](#) to see the CLA learning path and [here](#) to see the CLP learning path.) As with the other courses in this 3100 series, this On-demand Training version allows you to complete it at your own pace instead of what would normally take five full days if taken in a partner-led classroom. It covers common tasks that a system administrator of SUSE Linux Enterprise Desktop 11 has to perform, such as installation, configuration of the desktop environment, software management, management of processes, printing, integration into existing environments and roll out of a large number of installations throughout your enterprise.

Specific topics covered include the following:

- Customizing the graphical interface of the SUSE Linux Enterprise Desktop
- Locking down the SUSE Linux Enterprise Desktop
- Using the NetWorkManager to configure the network
- Activating and using IPv6
- Integrating SUSE Linux Enterprise Desktop into an Active Directory environment
- Integrating SUSE Linux Enterprise Desktop into an eDirectory environment
- Integrating SUSE Linux Enterprise Desktop into a UNIX environment
- Accessing remote desktops
- Using multimedia on a SUSE Linux Enterprise Desktop
- Configuring e-mail
- Creating shell scripts
- Deploying SUSE Linux Enterprise Desktop

Click [here](#) to see a full outline for Course 3104.

Course Outline - SUSE Linux Enterprise Desktop 11 Administration (Course 3104 v1)

Section 1: Customize the Graphical Interface on SUSE Linux Enterprise Desktop 11

- Configure X, Xgl and Compiz
- Customize the GNOME user interface
- Customize applications

Section 2: Lock Down the SUSE Linux Enterprise Desktop

- Control mounting of CD-ROM, DVD and USB drives
- Define mandatory settings with GConf and desktop profiles
- Use policy kit to configure application policies
- Use file system encryption

Section 3: Use the NetworkManager to Configure the Network

- Understand NetworkManager basics
- Access wired networks
- Access wireless networks
- Configure virtual private networks (VPNs)
- Configure mobile broadband connections
- Configure DSL

Section 4: Activate and Use IPv6

- Understand the IPv6 theory
- Activate and use IPv6 on SUSE Linux Enterprise 11

Section 5: Integrate SUSE Linux Enterprise Desktop 11 into an Active Directory Environment

- Describe how SUSE Linux Enterprise Desktop 11 integrates with Active Directory
- Configure Active Directory integration
- Access shared domain resources

Section 6: Integrate SUSE Linux Enterprise Desktop 11 into a Novell eDirectory Environment

- Describe how the Novell Client for Linux works
- Install and configure the Novell Client for Linux on SUSE Linux Enterprise Desktop 11
- Authenticate to a Novell Open Enterprise Server 2 Server Using the Novell Client for Linux
- Use Novell iPrint on SUSE Linux Enterprise Desktop 11
- Use iFolder on SUSE Linux Enterprise Desktop 11

Section 7: Integrate SUSE Linux Enterprise Desktop 11 into a UNIX Environment

- Accessing NFS file shares
- Authenticating to LDAP
- Printing to CUPS printers

Section 8: Access Remote Desktops Using Nomad

- Describe how Nomad works
- Install and configure Nomad
- Access desktops remotely with Nomad
- Troubleshoot common Nomad problems

SECTION 9: Use Multimedia on the SUSE Linux Enterprise Desktop

- Use Banshee
- Use Moonlight

Section 10: Configure E-mail

- Configure the Evolution e-mail client on SUSE Linux Enterprise Desktop 11
- Configure the GroupWise client on SUSE Linux Enterprise Desktop 11

Section 11: Create Shell Scripts

- Understand the bash basics
- Use basic script elements
- Understand variables and command substitution
- Use control structures
- Use arithmetic operators
- Read user input
- Use arrays
- Finalize the course project
- Use advanced scripting techniques
- Learn about useful commands in shell scripts

SECTION 12: Deploy SUSE Linux Enterprise Desktop 11

- Understand auto-installation basics
- Create a configuration file for AutoYaST
- Use an installation server
- Perform an automated installation

> Linux Enterprise Courses Coming Soon

The following two SUSE Linux Enterprise-related courses are slated to be released before the end of 2009, so stay tuned for those to also be available in On-demand Training.

> Novell's Guide to CompTIA's Linux+ with SUSE Linux Enterprise 11 (Course 3106)

This new course, slated to release in October, will be available as an On-demand course a few months after its release as a Partner-led course or study kit. A course that will work well in the academic market, it will prepare you for the non-vendor specific CompTIA Linux+ test, which is an industry-recognized certification.

> Migrating from Red Hat 5 to SUSE Linux Enterprise Server 11 (Course 8011)

When this course is released, it will prepare you to migrate services running on a Red Hat server to run on a SUSE Linux Enterprise Server system.

> Subscribing to On-demand Training

An annual subscription for On-demand Training costs US\$1,795 per user. This gives you an All-Access Pass which opens the entire On-demand Training library to you whenever you need it. Novell also just announced the option to be able to buy Solution Libraries in the

On-demand Training Library. Contact a Novell sales representative by calling 1-800-529-3400 or click [here](#) to find out more about your options.

As Novell continues to develop and focus its training on new technologies to meet new challenges, its world-recognized training will continue to provide you with what you need, when you need it!

Why These On-Demand Courses are Good for Your Career

Good training keeps others from surpassing your skills, thereby improving your job security at the same time you are increasing your company's productivity. In this tough economic climate, when budgets are tight and time is at a premium, On-demand courses help you secure the training you need and prepares you for the exams and certifications that demonstrate your abilities to employers.

Advantages of Course 3101 – 3102

- Based on the SUSE Linux Enterprise 11 code (not SUSE Linux Enterprise Server or SUSE Linux Enterprise Desktop), these courses provide the foundational knowledge of SUSE Linux Enterprise from which you can branch off to a specialization into server or desktop or other specialty such as SUSE Linux Enterprise Real Time or SUSE Linux Enterprise Advanced Server.
- These two courses constitute the Certified Linux Administrator (CLA) 11 certification learning path.

Advantages of Course 3103

- This course provides you training on tasks specific to server administration.
- A CLA certification plus the completion of Course 3103 prepares you for the Certified Linux Professional (CLP) 11 Practicum exam.

Advantages of Course 3104

- This course provides you training on tasks specific to desktop administration as opposed to administration of the server.

Novell has announced a plan for a Certified Linux Desktop Professional 11 (CLDP) exam. Keep watching for more information concerning this new certification. Having a CLA certification plus the completion of course 3104 will prepare you for this exam, providing you with what will prove to be an important credential in the IT industry.