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Cisco Custom Linux Preboot Image User Guide

For Allicia Deslovment Zolution 6.9

May 17, 2013

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Preface

This working discusses the objectives, and muse, conventions, and regarization of the Circo Caston Linux Probate Insers Circ Caldo For Abivis Devicement Infanise 6.9.

Objectives

This point describes the tasks and commands to install the Court rantom Linux periors image for the Abiets 6.9, which summers the Court Unified Commuting Textors servers and its sub-communesis.



This publication is intended primarily for administrators and surve who are expaged in depleying the Abinis Devlayment Eduction 6.9 on the Citua UCE surveys.



This during doughts the conjunts of each chapter in this document.

Table 1 Organization

Chapter	Talle	Description
Chapter 1	Date and the State	Deserview of the Court UCX custom LinPE and the provaprishes for installing the Court custom LinPE.
Chapter 2	Citer Centres Lines Polymer Tailes	Describes the various tasks involved in deploying and installing the Coursewirem LinPE.
Chapter 3	George Ann Notwork Support (255 Multipub)	Overview of the DM Multipath and how to protonal scripted KAN backup and deployment.
Appendix 1	Accession and Alternations	Lists for accoryon and abbreviations used in the decomposi-
Appendix 1	Sample Xicksian Pile for \$391	Provides a sample weipt file downscincting the kickstart antidiation.





Command Syntax Conventions

Table 2 describes the centus used with the commands in this document

Table 7 Command Emiss Daile

Canonalian	Description
holdfarr	Commands and keywords.
itally	Command input that is supplied by you.
1	Erywords or arguments that appear within square brackets are optimal.
[1 1 1 1 1	A choice of keywords (represented by s) appears in boson separated by restical bars. You must solve one.
* ar Cel	Represent the key labeled Control For example, when you read 'O or Crit.2), you should held down the Control key while you provide D key.
arrown Road	Examples of information displayed on the server.
buildiare serves fast	Examples of information that you must rates
	Nonprinting characters, such as you words, appear in angled brackets.
	Default responses to system prompts appear in spane brackets





Introduction

This sharter contains the following sections:

- Oversiew, name 1, 1
- Decembers, merch.

Overview

This public directions for track-and commands to initial the Cross Conton Linux Forbord Image (LinPQ) for Addris 6.4, which suggests the Cross PublicalComparing Rystem servers and in sub-components. This LinPT image amulas the latest network and storage drivers avoided for Cross Daillard Revers SCU: server and its sub-commands.

Reliew integrating Classe UCR with the Altiets DR, it is important to deveload the Crasse UCR specific autom Linux prelimit image that supports all the control Classe UCR survers and its sub-components. This image due surverses multitude and reliew literative which can be used by the end user.

Prerequisites

The procepticies to including the Circo Centern Lin/W includes collaring the following information which are detailed to be stated in the Circo centern Lin/W.

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- Alisis, Dil Lerver Base Domain... domain same required for accruing the default Alisis. «Xpres share.
- Altors DE Kerver Kharr user same... surmane required for accessing the default Altors (Xpro), share.
- Abiets Dil Kerver Khare pasewoni ... pasewoni required for accruing the default Abiets of preshare.





Cisco Custom Linux Preboot Tasks

This sharter contains the following sections.

- Deploying Cautom LinPE, page 2-1
- Creating FXE Beet Menn, page 2-4
- Using a Canton Parlant Image, page 21
- Oraniae a X-risted Network OI Install Job. name 2.10
- Crowing Imaging July, page 2-17



Contents of the Install Zip Folder

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 - parlines objidelault the delade PKE configuration file
- Guor Custom, Lindle, 2009; 329; Kampler Jobs and Korpin, KAA arip
 - This sin file contains one file and one folder-
 - Court Coulom Lindle, DBP JUPP Kample, Juby 5. 6. Abin... contains sample juby for new reference which can be interested in Abits Devicement Consels.
 - Cream-this folder contains the desired Linux Of and a file minital sh. This folder should be related in the Devloyment Error subfolder within the Altists.
 - The Linux OX folder contains, two folders:
 - Best
 - KampleCoulty

This folder structure is required to encountering Keriete-2/Network OS Install Job

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Creating PXE Boot Menu

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After the best image is created, slick OK to create a new PAE best option.





Using a Custom Preboot Image

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This defines the delade pre-essention environment. After the processing is complete, the PEE beer retirm inservity served in a fidder on the PEE forver location.

The folder created is send at the following location: vAtors local Path/aXpro/Deployment Server/PXEImeen/MenaOntenness.

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Creating a Scripted/Network OS Install Job

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The Kulainer file is reasonial for installing the Linux through Keepped/Network OK. This file linus all the answers to the queries that appear during a typical installation. This method is called kickstart installation.

Kis kniari installations can be performed using athew a local CD EOM, a local hand drive, or through file transfer restands such as NPS, PTP, or ETTP.

Performing a Kickstart Installation

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- imp3 Make the kickstory life available on the network
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Creating a RHEL Scripted/Network OS Install Task

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Adding Power Control

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In this example, EDEL 5.8 is the Linux OK bring installed. Copy the probest foldor contents to the Bort folder (Court e shoPAM, and a Bort folder).

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 In case of the variable KX, there is a shared path (wither kity or Ep) for locally fills. Encare that the locally fills can be accessed through the given path with proper oredenized.

Creating Imaging Jobs

Creating a Disk Image

- This took areases an image of a computer's hard disk. The disk image is served in any of the formula such as an IMCL EXE. WIM. IMEC, or GRO bits.
- To create a disk imper task, welcom the following tasks secondially:
- 1. Create Image (disk image)
- 2 Robert to Production

- In the Devlocement Complet, charact Hire News Jah
- Bagd Enter the job name or Create Lines Disk Image
- Eq.3 Double click on the centred job to open the Task View pane
- Beel in the Tank view many which Add.
- 1491 From the deep down menn, shows Oreate Disk Image



- East Prom the Imaging Taul deep down line, choose EDeploy (Text Made) spring.
 - Des 7 Revenue to the math and filename to store the disk image file.
 - Deal Chark for Do not beet to Production charkbon.

This step constex an image of the hard disk while it is busied to Automation, without first boosing to Windows to user the network actions (TCPOP actions, MD, assessing name).



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Distributing a Disk Image

This task allows soons to distribute an Killeyley, ImageX, Mao, or Chest image file to managed assumption, to device a spectrally created hard that many.

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- 1. Wine the hand drive clean



- 2. Distribute the disk image
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- Engl Type the job more as Biotelinie Linear Disk Image and double which as the job to open the Task View man.
- Evel Ever the conten disk using East Loriet tools
- Beed in the Task View man, slock Add
- 1991 From the deep down mean, choose Raw Soript.

As a promptiate, it is important to why the hand drive to clean up partition errors, had installations, or minary emotion.

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Storage Area Network Support (DM-Multipath)

This sharter contains the following

- Device Manner Multisulting, name 3.1
- Restrict XAN Backsey, name 3.2
- Residued XAN Declarances, many 3.5

Device Mapper Multipathing

The Chen UCX review End Forgers's multipath workflows and binaries by default. The LinFi Leond apports Device Mapper Multipathing (EM Multipath), which allows you to configure multiple DO multi-between server mails and vieware arrays into a single device.

The Chow TCT contem Link? By default sheeks for the existence of the multipark and does adds them in the device support directory (directospper). The low director are automatically excluded by detecting and Mackleting them in the multipark configuration.

This section empression the following

- Kend mobiles
- Binaries
- Multipath Configuration
- Remises

Kernel Modules

- The following lowest modules remains I/O and summers fullerer for main and math remarks
- decending
- de mobipaticke
- de round robin ko

Rinarios

The fellowing binates are included in the Court UCX custom LinPA image

- Multipath Configuration and (Udochradi(path)...Provides commands to configure, Eul, and Bask multipath devices.
- Multiputs darmen () biointel/parkd)...Munitors the path status. When paths sevent, the multipath darmen can also initiate walk reveat vehicles to resource that the estimal such seven is used.

Multipath Configuration

The multipath darmon behavior can be updated and controlled by using the Avadeal/path.com/ life

This configuration file can be used for the following multimely configurations.

- Machine spanific devices that are not considered for multipath. By default, all devices are Machined. Deadly, the default Machine system is commented and.
- Macking propping ... multiple candidates that would observing by blackined according to the presenters of the Macking section.
- deleales ... armenal default settimers for DM. Multimode
- multipath....writings for the characteristics of individual multipath devices. These values exervative what is specified in the defaults and devices section of the configuration life.
- devices, settings for the individual strange controllers. The set values corrective what is questiond in the defaults societies of the configuration life. If any of the strange array used is not suggested by default, set must array a devices subsection for that areas.

Service

The DM multipath darmen is started by default using the instant distribution to using. This script can be used with varient options for starting, stepping, restarting, relaxing, and from schedung the darmen.

The various binaries listed can be used to not several sectorial toda, as not the requirement.

The disk member can be in form of dm. I or dm. I sty for the XXX standard disks.

In take the societial XAN backup you can fun the samely informationed in the following section.

he Alieis imaging molinde de net support ary pals based (dev/support/supplex) image constant or indevnent, therefore you must specify the disk number requires a backars or devleyment.

Scripted SAN Backup

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- End. Easter the left name and dealthe click on the constant latt to men the Task View Pane.
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Scripted SAN Deployment

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- Bay 2 Enter the job name and deable click on the job to open the Task View Pane.
- Bug 3 In the Tank view pane, click Add and shores East Soript.



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Acronyms and Abbreviations

The following table describes the accessors and althoughters used in the descense

Althoredullan	Canadalian .
	Perhast Encurion Environment
	Production Environment (Climit installed OS)
AE	Automation Environment (PXE boot)
NBR	Maxies Host Knowl
24	Deployment Exteriors
203	Unified Computing Bysism
04	Operating Bysiem
XPX	Network File System
717	Pile Tuander Perincol
arm	Reporters' Transfer Postsued
K901.	Red Hat Enterprise Linux
DM Multipath	Orniae Mapper Multipolicing





Sample Kickstart File for RHEL

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Cisco-Confidential
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