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WinINSTALL 10.0 Training Outline

Each student enrolled in the WinINSTALL training class receives a 653-page Training Guide. This is documentation covering all of the topics shown below. This Training course requires 3 full days.

DAY 1 Topics

Course Objectives

What is WinINSTALL
Evolution and History of WinINSTALL
WinINSTALL Console Evolution
WININSTALL 10.0 New Functionality
WinINSTALL Agent Infrastructure
Packaging Features
Software Distribution Features
PXE/Client Reset and Replication Features
Other Products from Scalable
WinINSTALL LE
WININSTALL MSI PACKAGER PROFESSIONAL
WININSTALL DESKTOP MANAGEMENT SUITE (DMS)
WinINSTALL Desktop Availability Suite (DAS)

Lesson 1 – WinINSTALL 10.0 Installation

Lesson 1 Objectives

Lesson 1 Objectives-Continued
Deployment Planning and Architectural Overview
CENTRALIZED DATABASE
DECENTRALIZED DATABASE
WinINSTALL Desktop Management Database
Supported Database Platforms
Desktop Management Database Schema
WinINSTALL Administrator Requirements
Installation Requirements - Wininstall Server And Share
WinINSTALL Console
Reference Machine
Client Workstations
Selecting the Appropriate WinINSTALL Setup
Upgrading from Prior WinINSTALL Versions
WinINSTALL 10.0 Installation Checklist
License Types
WININSTALL DESKTOP MANAGEMENT SUITE (DMS)
WININSTALL DESKTOP AVAILABILITY SUITE (DAS)
Installation License
SQL Express – Starting the Database Server
Making a WinINSTALL Database with the Database Setup Wizard
Initial Start of the WinINSTALL Console
Configuring the Console Options
Finishing Console Connectivity
Creating Additional WinINSTALL Shares
Installing Additional WinINSTALL Consoles



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LABS FOR LESSON 1 – WININSTALL 10.0 INSTALLATION

Lab 1A – Installing the WinINSTALL 10.0 Server and Share
Lab 1B – Installing an Additional WinINSTALL Share (Optional)
Lab 1C – Installing and Configuring additional WinINSTALL Consoles
A Logical Program Work-Flow
WinINSTALL's Common Task Start Page
The Main Areas of the WinINSTALL Console
The Tree View
The List View
The Data View
The Console Shortcut Bar
Tree View Branch Icons
Icons Specific to Software Distribution
Software Distribution Package and Editing Icons
Inheritance Icons
Start, Machine and Search Tree Branch Tool Bar Buttons
List, NAI, MSI, and Merge Module Tree Branch Tool Bar Buttons
Conflict Assessment Tree Branch Tool Bar Buttons
Client Reset and Replication Tree Branch Tool Bar Buttons
Schedule, Console Log, and Reports Tree Branch Tool Bar Buttons
Setting WinINSTALL Console Security
WinINSTALL Report Categories
CONFLICT ASSESSMENT
INVENTORY
CONSOLE
REPLICATION
WININSTALL AGENT REPORTS
SOFTWARE DISTRIBUTION REPORTS
PERSONALITY TRANSFER REPORTS
ASSET MANAGEMENT REPORTS
Custom Reports
Lab 1D – Console Navigation
Summary

Lesson 2 –WinINSTALL Environment Configuration and Inventory

Lesson Objectives

WININSTALL 10.0 Directory Layout
CONSOLE AND AGENTS
WININSTALL SHARE
MSDE INSTALLATION
WININSTALL 10.0 Share Structure
\BIN
\CFGFILES
\CLIENTRESET
\CR
\MERGEMODULES
\MIGRATION
\PACKAGES
\PATCHES
\REPORTS
\TXFILES
Server, Workstation, and Console Directory Structure
TRANXITION\CONTENTPLUGINS
WININSTALL\BIN
WININSTALL\CFGFILES



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WININSTALL\TXFILES
WININSTALL\PACKAGES
WinINSTALL Agents
Agent Architecture
Agent Roles
WININSTALL MASTER AGENT
SCHEDULER
UPDATE
WAKE
INVENTORY
DISTRIBUTION
MIGRATION
MERGE
PUBLISHER
REPLICATION
HOUSEKEEPER
PXE CLIENT RESET (DAS Suite Only)
Data Flow from the WinINSTALL database
Data Flow to the WinINSTALL database
Adding Machines to Manage in the WinINSTALL Console
MANUALLY ADDING A MACHINE
SELECTING A MACHINE FROM THE NETWORK
Assigning Roles to Machines
Deploying the WinINSTALL Agent
Assigning a WinINSTALL Server to a Workstation
Using Secure Manual Deployment (SMD)
Automating Deployment using WIDeploy.exe
AUTOMATING WININSTALL AGENT DEPLOYMENT
QUERY THE WININSTALL DATABASE (" * ")
DEPLOY TO A LIST OF MACHINES ("@")
QUERY ACTIVE DIRECTORY ("+")
Viewing Machine Deployment
Removing the WinINSTALL Agent
WinINSTALL Nearest Server Support
SEQUENTIAL SCAN (DEFAULT)
SUBNET DETECTION
TRAFFIC ANALYSIS
BOTH SUBNET DETECTION AND TRAFFIC ANALYSIS
SHARE PROXIMITY OPERATION

Lab Section for Lesson 2 – WININSTALL 10.0 Configuration and Agent Deployment

Lab 2A – Deploying the Server Agent from the WinINSTALL Console
Lab 2B – Deploying additional Server Agent from the WinINSTALL Console (Optional)
Lab 2C – Creating a Secure Manual Deployment File (SMD)
Lab 2D – Deploying Workstation Agents using the Console
Lab 2E – Removing WinINSTALL Agents using the Console
Lab 2F – Deploying agents using WIDeploy and SMD
Defining Inventory Settings
Defining Distribution Settings
WININSTALL AGENT SETTINGS-DISTRIBUTION TAB
RUN AT STARTUP
SUB-LIST SCAN
STARTUP LIST
CLIENT LAUNCH
PRIVILEGE ELEVATION



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MACHINES
RESTORE DEFAULTS
Defining Advanced Settings
WININSTALL AGENT SETTINGS - ADVANCED TAB
CONFIG FILE PROCESSING INTERVAL
TRANSACTION FILE PROCESSING INTERVAL
IPC PORT
AGENT SOFTWARE UPGRADE
NETWARE INFORMATION
MACHINES
RESTORE DEFAULTS
Defining Server Settings
WININSTALL AGENT SETTINGS - SERVER TAB
MERGE/PUBLISH
MERGE PROCESSING INTERVAL
PUBLISH PROCESSING INTERVAL
WAKE ON LAN
AFFECTED MACHINES
RESTORE DEFAULTS
Defining Database Settings
DATABASE
Defining Replication Settings
REPLICATION
MADCAP
Publishing Changes to Settings
Performing an Inventory
Scheduling an Inventory
JOB TYPE TAB
INVENTORY JOB SETTINGS TAB
TARGET MACHINES TAB
USER AND GROUP RESTRICTIONS TAB
JOB SCHEDULE TAB
Viewing Inventory Summary Information
Inventory – Devices
Inventory – Printers
Inventory –Services
Inventory – Files and App/File Relations
Inventory - Applications/Component
Inventory – MSI Features
Inventory – Windows Updates/Hot Fixes
Change Log
Inventory-Log Variables
Lab 2G – Performing an Inventory On Demand
Lab 2H – Viewing Inventory Results
All Machines - Licenses Tab
All Machines - Assets Tab
Lab 2I – Adding License Information
Lab 2J– Viewing License Information
Lab 2K– Scheduling an Inventory
Creating Machine Searches
A Sample Search Job
Completed Search Job
Lab 2L – Managing Machines using Search Groups
Configuring Wake-On-LAN
SETTING BIOS SETTINGS



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SETTING WINDOWS SETTINGS

Lab 2M – Configuring Wake On LAN

Lab 2N – Using Wake on LAN to Wake up a Machine

Summary

DAY 2 Topics

Lesson 3 – Package Creation and Management

Lesson Objectives

Advantages of Application Packages

Files Used to Configure Software Distribution

The Standard Winapps.lst and Patches.lst Files

Format of a typical (.LST) file

Custom List (.LST) Files

LAB Section for Lesson 3 – Package Creation and Management

Lab 3A – Creating Custom List Files

Customizing Software Distribution Using Runtime Options

Delivery Notification – Logs

Delivery Notification - E-Mail

Delivery Notification – SNMP

Delivery Notification - Management Platforms

Delivery Notification – Database

Lab 3B – Enabling Database Logging at the List Level

Enabling Package Delivery using Conditions

The General Tab

System Conditions

Updating Platform Conditions

Software Conditions

Disk Space Conditions

Language Conditions

Setting Group Conditions

Using Discover

Prerequisites for Discover

Building a Package with Discover

Archived Before Snapshot

Advanced Discover

Manual creation of an External Process

Authoring an MSI using Discover

Repackaging an MSI Package using Discover

Good and Bad Shortcut Examples

Lab 3C – Creating a WinINSTALL Distribution Package using Discover

Lab 3D – Creating a WinINSTALL Distribution Package calling an external process.

MSI vs. NAI

NAI and MSI Editing Features – List view

NAI and MSI Editing Features – Data view

WinINSTALL Network Application Information (.NAI) Files

Lab 3E – Compressing a WinINSTALL Distribution Package (Firefox 3)

Customizing Software Distribution Using File Install Options

Customizing Shortcut Properties

Configuring Registry Entries in a WinINSTALL Package

Customizing Software Distribution Using Service Settings

Customizing Software Distribution Using Edits



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What to Do at Installation Completion

Preparing for Uninstall

WinINSTALL Variables

Lab 3F – WinINSTALL Package Creation and Editing

MSI Files

The Purpose of MSI

MSI System Requirements

MSI Tool Sources

Features and Components

MSI Properties

Advertising Types

Advertising and Resiliency

Application Entry Point

Lab 3G – MSI Authoring and Resiliency

ANSWERS – MSI Authoring and Resiliency – Lab 3G

MSI Levels of Install

MSI Order of Execution

Actions, Conditions, and Sequence Tables

MSI UI and Execute Tables

Lab 3H – Creating an MSI Package using Discover

Lab 3I – Converting an NAI to an MSI

Using 3rd Party-Supplied MSI Based Applications

Lab 3J – Performing an Administrative Install

Lab 3K – Using an Existing MSI File

File Install Options for MSI Packages

Adding Shortcuts to a Windows Installer Package

Configuring Registry data within a Windows Installer Package

Configuring NT Services within a Windows Installer Package

Configuring File Edits within a Windows Installer Package

Advertising Windows Installer Packages and Features

Managing Patches Associated with a Windows Installer Package

MSI Install Modes and Reset Options

Defining Custom Actions

Custom Action Types

Custom Action Categories

Lab 3L – Creating a Custom Action

What is a Transform (.MST)

Using Transforms

Lab 3M – Creating a Transform using the Console

Lab 3N- Creating a Transform using Discover

Lab 3O – Applying Transforms to an Application List

Lab 3P – Creating a Transform for Office 2007 Using the Admin Toolkit

What is a Patch Package (MSP)

What is a Merge Module (.MSM)

Lab 3Q – Controlling Package Delivery

Lab 3R: Enabling the Automatic Installer Package

Lab 3S: Enabling the E-Mail Package

Lab 3T: Customizing the Interactive User Menu Package

Lab 3U: Moving Completed Packages to List files for Distribution

Summary

Lesson 4 – Conflict Assessment and Validation

Lesson Objectives

Benefits of Testing Distribution Packages

Best Practices for Package Testing



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MSI Validation
Types of CUB Files
Running a Validation Scan
Validation Results
Fixing ICE Issues
Automatic ICE Error Correction

LAB Section for Lesson 4 – Running a Validation Scan on a MSI Package

Lab 4A – Running a Validation Scan
Conflict Assessment
Creating an OS Baseline
Creating a Conflict Assessment Job
Conflict Assessment Results
Conflict Reports
Fixing Conflicts
Lab 4B – Creating a Baseline
Lab 4C – Running a Conflict Assessment
Summary

DAY 3 Topics

Lesson 5 – WinINSTALL Software Deployment

Lesson Objectives

The WinINSTALL Agent
Drag and Drop Installations
Two-Phase Software Installations

LAB Section for Lesson 5 – Two-Phase Software Deployment

Lab 5A – Two-Phase Software Installation
Run At Start Up
Elevating User Privilege
The Automatic Installer
Optimizing the Automatic Installer
Lab 5B – Modifying Agent Settings to use a Start-Up List, enabling Privilege Elevation, and Deploying Applications at Start-Up with the agent.

The Interactive Installer
Installing with the Interactive Installer from a Workstation
Optimizing the Interactive Installer
Troubleshooting with the Interactive Installer
Lab 5C – Using the Interactive Installer
Scheduled Installations
Scheduling an Installation
Lab 5D – Scheduling an Installation
Distributing Software with the E-mail Installer
Lab 5E – Installing using the Email Installer
CD Creation Wizard
Lab 5F – Creating a CD Staging Directory
Advertising Windows Installer Packages
Lab 5G – Advertising an Installation
Summary



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Lesson 6 – Patch Management

Patch Management
Vulnerabilities and Updates

LABS for Lesson 6 – Patch Management

Lab 6A – Creating a New Vulnerability Scan Job
Lab 6B – Viewing Scans through Patch Management
Lab 6C – Viewing Scans through Machine Management
Alternate Scan Source
Remediation
Lab 6D – Remediation
Managing Your Updates

Lesson 7 – Personality Transfer

Lesson Objectives

Personality Transfer
Types of Personality Jobs Available
Functionality And Platform Limitations
Personality Transfer Templates
Creating and Editing Personality Transfer Templates

LABS for Lesson 7 – Personality Transfer

Lab 7A – Creating a Personality Transfer Template
Lab 7B – Performing a Backup
Lab 7C – Performing a Restoration
Lab 7D – Performing a Migration

Lesson 8 – PXE Operating System Installation

Lesson Objectives

What is PXE?
PXE Restrictions
Three Main Components of PXE
DHCP Server
PXE Server
PXE Clients
Client Machines and PXE
Light at the end of the Tunnel
PXE in action
Wake on LAN
Summary

LABS for Lesson 8 – PXE Operating System Installation

Lab 8A – Creating a PXE Server
Lab 8B – Slipstreaming Service Packs
Lab 8C – Creating a PXE Template
Lab 8D – Creating a PXE Client
Lab 8E – Importing PXE Clients

Lesson 9 – WinINSTALL Replication

Lesson Objectives

WinINSTALL Replication
Creating a Replication Job
The Replication Wizard



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Replication Settings
Selecting What to Replicate
Selecting Replication Targets
Scheduling Replication
Completing the Replication Wizard
Replication Job Properties

LAB Section for Lesson 9 – Creating and Running a Replication Job

Lab 9A – Creating a Replication Job
Summary

Lesson 10 – Remote Control

Course Objectives

What is WinINSTALL's Remote Control Feature
Remote Desktop Connection

LABS for Lesson 10 – Remote Control

Lab 10A – Executing Remote Desktop Connection
External Tool
Remote Control Tokens
Lab 10B – Configuring and Running an External Tool

Personality Transfer and PXE Client Reset are functions only available in WinINSTALL "DAS" Desktop Availability Suite.

Summary of Course Objectives

- Describe the basic functionality and features of Scalable WinINSTALL v10.0
 - Discover the paradigm shift from packaging and distribution to a full blown desktop management tool within one console.
- Install, update and configure Scalable WinINSTALL v10.0
 - Install and configure a WinINSTALL Server, Console and Agents
 - Navigate through the WININSTALL 10.0 Console.
 - Learn your way around the new WININSTALL 10.0 Console
 - Utilize WinINSTALL Reports to locate important data about the state of the desktops within the enterprise
 - Configure the enterprise environment for use with WinINSTALL v10.0
 - Deploy additional WinINSTALL Servers and shares and WinINSTALL workstation agents to systems within the enterprise.
- Perform an Inventory and utilize the inventory for Desktop Management tasks.
 - Inventory, both full and incremental, all workstations in the environment.
 - Learn how to utilize this inventory for other tasks such as using it for criteria to deploy software.
- Create and manage software distribution packages in both NAI and MSI format.
 - Utilize WinINSTALL to repackage applications in NAI and/or MSI format.
 - Learn to use the WinINSTALL Console to edit packages.
 - Create Transforms, Merge Modules, Patches
 - Manage application packages utilizing WinINSTALL's Hierarchical Package Management
- Test distribution packages using MSI Package Validation and Conflict Assessment
 - Ensure packages are built correctly and do not conflict with existing software to be distributed
 - Software Package Distribution
 - Utilize legacy and new methods of package deployment



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- Utilize built-in Patch Management to keep all managed computers up to date with the latest hot fixes and updates.
- Transfer Personality data between machines
 - Create Templates to control Personality Transfer
 - Backup and Restore data using a centralized Repository
 - Migrate data
 - Distribute Policies based on personality and settings configuration
- Replicating Software Packages, Personality data and Client Reset templates with WinINSTALL v10.0
- Replicate of software packages and OS Templates
- Create Client Reset Template
- Deploy an Client Reset Template and a load set of Applications