Installation and Configuration of IBM FileNet Information Management Software

A step-by-step guide to installing and configuring IBM FileNet ECM and Case Manager on RHEL 8.0

Alan Bluck



ii 🔳

Copyright © 2023 BPB Online

All rights reserved. No part of this book may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, without the prior written permission of the publisher, except in the case of brief quotations embedded in critical articles or reviews.

Every effort has been made in the preparation of this book to ensure the accuracy of the information presented. However, the information contained in this book is sold without warranty, either express or implied. Neither the author, nor BPB Online or its dealers and distributors, will be held liable for any damages caused or alleged to have been caused directly or indirectly by this book.

BPB Online has endeavored to provide trademark information about all of the companies and products mentioned in this book by the appropriate use of capitals. However, BPB Online cannot guarantee the accuracy of this information.

First published: 2023

Published by BPB Online WeWork 119 Marylebone Road London NW1 5PU UK | UAE | INDIA | SINGAPORE

ISBN 978-93-55513-366

www.bpbonline.com

iii

Dedicated to

My beloved Wife, Jennifer & My Children, Julie and Rosalie & Their Families iv 📃

About the Author

Alan Bluck is a systems architect providing a broad range of services, with over 45 years of IT Experience. Elected an IBM Champion 2022 and re-elected for 2023, he is a Member of the British Computer Society with experience in both Business and Scientific systems. He is a Chartered Information Technology Professional (CITP) with 20 years as a Solutions Architect, working for both Xerox and IBM on Document Management systems.

About the Reviewer

Deep Thakkar is a certified Technical Lead with expertise in the field of Enterprise Content Management (ECM), Business Process Management (BPM), and a Professional Scrum Master. His knowledge extends to managing and architecting Enterprise Applications, utilizing tools such as the IBM FileNet P8 suite, IBM Case Manager, IBM Content Navigator, and IBM BAW. Throughout his career, he has taken charge of numerous cutting-edge technology projects, overseeing the entire process from gathering business requirements and conducting data analysis to designing, developing, and delivering applications on the IBM FileNet P8 Suite.

His domain experience spans across various industries, including Banking, Financial Services, Insurance, Oil & Natural Gas, and Real Estate, enabling him to bring a diverse perspective to his projects.

Additionally, he has undergone training in several cloud technologies, such as IBM Cloud, Microsoft Azure, Google Cloud Platform, and AWS, further enhancing his skillset in cloud computing.

Furthermore, he holds multiple certifications, including IBM FileNet P8 Suite, Professional Scrum Master I, Lean Six Sigma Green Belt, Microsoft Azure Cloud, and IBM Cloud, attesting to his proficiency in these areas. Acknowledgements

There are a few people I want to thank for the continued and ongoing support that they gave me while I wrote this book. First and foremost, I would like to thank my wife, Jenny, for continuously encouraging me to write the book—I could never have completed this book without her support.

I am grateful for the excellent online courses and materials provided by RedHat and IBM RedBooks.

I also extend my gratitude to the team at BPB PublicationS for their support in allowing me to publish this as the fourth book in the series, as IBM and RedHat Software installation covers a wide range of application products.

vi 📃

Preface

This series of books consolidates and rationalizes over 30 publications describing the Installation and Configuration of IBM Software Products on RedHat Enterprise Linux 8.0, IBM Cloud, IBM Cloud Private (Community Edition), and the Windows 10 Operating System. The book is being released as a series of four books to keep the volumes manageable.

The first book in the series was a consolidation and rationalization of 5 separate publications describing the Installation and Configuration of IBM Watson Analytics on RedHat Enterprise Linux 8.0, IBM Cloud, IBM Cloud Private (Community Edition), and the Windows 10 Operating System.

The second book of the series was an expansion and rationalization of several separate publications describing the Installation and Configuration of the IBM Cognos Analytics software and supporting systems on RedHat Enterprise Linux 8.0, IBM Cloud, IBM Cloud Private (Community Edition), and the Windows 10 Operating System.

The third book in the series was a consolidation and rationalization over several publications describing the Installation and Configuration of IBM DB2 on RedHat Enterprise Linux 8.0, IBM Cloud, IBM Cloud Private (Community Edition) and the Windows 10 Operating System .

This book is the fourth and last book of the series, consolidation, and rationalization of more than a dozen separate publications describing the Installation and Configuration of IBM FileNet Software Products on RedHat Enterprise Linux 8.0, IBM Cloud, IBM Cloud Private (Community Edition) and the Windows 10 Operating System.

The book focuses on the initial preparation and configuration of the prerequisite requirements for each of the system platforms covered and the initial Installation and configuration of the supporting systems for the successful deployment of the IBM software products listed below:

- IBM BAW 18.0 IBM Security Directory Suite 8.x
- IBM Content Search Services 5.5.x Installation and Configuration
- IBM Case Manager Preparation of a new Target Object Store in a Filenet P8 Docker Container

- IBM BAW 18.0 IBM Workflow Center 8.6.1.1900x
- Case Manager 5.3.3 Installation with Content Navigator 3.0.x
- WebSphere 8.5.5.5 Installation and Configuration
- IBM Case Analyzer 5.5 Installation and Configuration
- Case Monitor Dashboard 5.3.x plugin
- IBM Cloud Private and IBM FileNet P8 CPIT Installation
- IBM Content Navigator 3.0.x Installation
- IBM Content Foundation 5.5.x Installation
- Oracle 12C on the Linux operating system Configuration for IBM Content Foundation 5.5.x
- IBM Security Directory Services 6.4
- Importing Case Manager solution Auto Claims example into Case Manager 5.3.3

This fourth book of the series consists of the following seventeen chapters, in which you will learn the following:

Chapter 1: Introduction–This chapter covers the *Bill of Materials* for IBM information management products, including IBM FileNet P8 5.5.x, IBM BAW 21.0.x - IBM Workflow Center 8.6.1.1900x, IBM Case Manager 5.3.3, IBM Case Analyzer 5.5, IBM Content Navigator 3.0.x and IBM Content Foundation 5.5.x. It also covers the download of the supporting software systems; IBM Cloud Private and IBM FileNet P8 CPIT, IBM Security Directory Services 6.4, IBM Security Directory Suite 8.x, IBM WebSphere 8.5.5.20 (minimum support for IBM FileNet 5.5.9), IBM CEBI Content Engine Bulk Import Document Batch Tool, IBM Content Search Services 5.5.x, IBM Case Monitor Dashboard 5.3.x plugin, IBM Case Manager auto claims example, Oracle 12C on the Linux operating system, and LibreOffice 6.3.x. Further, the chapter describes the download site URLs, product codes, descriptions, and size and name of the download GZIP tar files for each software download. It also includes the summary contents of each of the available IBM Redbook publications, which supports the use of the listed IBM software products.

Chapter 2: Installation Preparation – This chapter covers the RedHat 8.0 .iso disk image installation procedure on VMware Workstation Pro 15.5 and 16.2.x, Disk resource, and sizing requirements, network card(s) and mapping **yum**, **dnf**, **pip**, and **conda** installations, and Firewall Port set-up for the IBM Software Product Prerequisites of the products listed in *Chapter 1: Introduction*. It includes the installation procedure for the base IBM supporting products on Red Hat Linux 8.0

and Windows 10. The Disk resource and Sizing requirements are also described. The RedHat Linux **Red Hat Enterprise Linux CoreOS** (**RHCOS**) server cluster machine requirements for OpenShift 4 on-premise cloud installation and the support for Kubernetes-controlled containers are outlined.

Chapter 3: System Sizing – This chapter covers procedures for System Sizing for IBM Software systems. There is a program called **IBM Content Capacity Planner** (**ICCP**) (originally called IBM SCout) which can be used to enter system volume and hardware data to provide estimates of performance loading, which we describe in this chapter.

Chapter 4: Installation Downloads – This chapter describes the procedures for the installation downloads of IBM Fix Packs, IBM Cloud PAK systems, Docker container installations, RedHat OpenShift 4.x Installations, and the IBM Cloud Private system on several platforms, including Base VMWare Linux system platform downloads for use with the Docker Container system. The RedHat OpenShift system, which forms a front-end for container management of a Cloud cluster of load-balanced control plane and worker servers, along with The IBM Cloud Private system covering the installation of IBM Cloud Private 3.2.0 (Community Edition) is also included in the chapter. It describes the download and installation using docker pull and the requirements of a single node cluster required for IBM FileNet CPIT installation. The readers will learn about downloading and installing the RedHat 8.1 operating system disk image on VMware Workstation Pro 15.1 and the prerequisite library and size requirements for IBM software products. The setup and use of IBM Cloud are further described. (IBM Cloud is a set of cloud computing services for business).

Chapter 5: Operating System and Platforms – This chapter describes the procedures for installing and configuring IBM software on an IBM Cloud Private cluster, the Windows 10 server and IBM Cloud. It includes installation of IBM Cloud PAK systems, Docker Container Installations, and the IBM Cloud private system on several platforms, including Base VMWare Linux system platform downloads for use with the Docker Container system and the functions of the main docker commands; The RedHat OpenShift system which forms a front-end for container management of a Cloud cluster of load-balanced control plane and worker servers; the IBM Cloud private system covering the installation of IBM Cloud Private 3.2.0 (Community Edition). The download and installation of the RedHat 8.1 operating system disk image on VMware workstation Pro 15.1 are described, and the prerequisite library and size requirements for IBM software products are outlined. The use of IBM Cloud is covered. (IBM Cloud is a set of cloud computing services for business).

x

Chapter 6: Security and Users – This chapter describes the step-by-step installation of IBM Security Directory Services 6.4, including the set-up of the supporting RHEL 8.0 Linux operating system. It also describes the addition of the LDAP users and groups required by the IBM Business Automation and the supporting IBM Case Manager and IBM FileNet Content Engine systems.

Chapter 7: IBM BAW 21.0.3 Upgrade Installation from BAW 18.6.1.19002 – This chapter covers the upgrade installation of IBM BAW 21.0.3 (Business Automation Workflow). It will upgrade to version 21.0.3 from 18.0.0.x, 19.0.0.x, 20.0.0.x, or version 21.0.1.

Chapter 8: Cloud Based Systems – This chapter covers the installation and configuration of IBM Cloud Based systems. We cover the installation of IBM Cloud Private for installing the IBM FileNet P8 container-based systems on a RedHat Linux RHEL 8.0 Docker container system running on a VMware virtual host server on a Windows 10 Server operating system. We also describe the installation of the Eclipse Codewind development environment. It is used to create Docker containers using the Docker Compose development environment. Finally, we describe the script changes made to prepare a new Object Store for IBM FileNet P8 Content Manager using a modified CPIT installation script.

Chapter 9: IBM Security Directory Server for IBM Content Foundation – This chapter describes the procedure for the installation and configuration of IBM Security Directory Suite for the support of the User and Group security systems for IBM FileNet P8 Content Foundation and supporting IBM system components, IBM WebSphere Application server, the IBM DB2 Database server and the installation of IBM Case Manager 5.3.3.

Chapter 10: Installing IBM WebSphere 9.0.5.14 – This chapter describes the procedure for the installation and configuration of the IBM WebSphere Application server for the support of the web application systems for IBM FileNet P8 Content Foundation, IBM Case Manager 5.3.3 and IBM Content Navigator.

Chapter 11: Problem Resolution Procedures and Installing DB2 11.5.7 – This chapter describes the procedures for resolving installation and configuration issues for IBM FileNet P8 Content Foundation and installing the supporting IBM system component, the IBM DB2 Database server.

Chapter 12: Installing IBM Content Foundation 5.5.10 – This chapter describes the procedures for the installation and configuration of IBM FileNet P8 Content Foundation 5.5.10, following the installation of the supporting IBM system

components, IBM Security Directory Suite, IBM WebSphere Application server, and the IBM DB2 Database server which have been described in Chapters 9,10 and 11, respectively.

Chapter 13: Installing Content Navigator 3.0.13 and Case Manager 5.3.3 – This chapter describes the procedures for the installation and configuration of **IBM Content Navigator 3.0.13** and the **IBM Case Manager 5.3.3** systems.

Chapter 14: Importing the Case Manager Solution – In this chapter, we describe the procedures for importing a Case Manager solution, using the **Auto Claims** example with the use of the **IBM Case Manager Builder 5.3.3** and the **IBM FileNet P8 Standalone Process Designer**.

Chapter 15: Configuring the Case Manager Solution – In this chapter, we describe the procedures for the configuration of a Case Manager solution, using the Auto Claims example with the use of the IBM Case Manager Builder 5.3.3, the IBM FileNet P8 Standalone Process Designer and the Windows IBM eForms Designer.

Chapter 16: Installing and Configuring IBM Content Search Services 5.5.10 – In this chapter, we describe the procedures for the installation and configuration of **IBM Content Search Services 5.5.10** and configuration with the use of the **IBM FileNet P8, Content Platform Engine 5.5.10**.

Chapter 17: Installing and Configuring IBM Case Analyzer 5.5 and IBM Case Monitor Dashboard 5.3.3 – In this chapter, we describe the procedures for installing and configuring IBM Case Analyzer 5.5 using the IBM Case Monitor Dashboard 5.3.3.

Code Bundle and Coloured Images

Please follow the link to download the *Code Bundle* and the *Coloured Images* of the book:

https://rebrand.ly/7sylo14

The code bundle for the book is also hosted on GitHub at https://github.com/ bpbpublications/Installation-and-Configuration-of-IBM-FileNet-Information-Management-Software. In case there's an update to the code, it will be updated on the existing GitHub repository.

We have code bundles from our rich catalogue of books and videos available at **https://github.com/bpbpublications**. Check them out!

Errata

We take immense pride in our work at BPB Publications and follow best practices to ensure the accuracy of our content to provide with an indulging reading experience to our subscribers. Our readers are our mirrors, and we use their inputs to reflect and improve upon human errors, if any, that may have occurred during the publishing processes involved. To let us maintain the quality and help us reach out to any readers who might be having difficulties due to any unforeseen errors, please write to us at :

errata@bpbonline.com

Your support, suggestions and feedbacks are highly appreciated by the BPB Publications' Family.

Did you know that BPB offers eBook versions of every book published, with PDF and ePub files available? You can upgrade to the eBook version at www.bpbonline.com and as a print book customer, you are entitled to a discount on the eBook copy. Get in touch with us at :

business@bpbonline.com for more details.

At **www.bpbonline.com**, you can also read a collection of free technical articles, sign up for a range of free newsletters, and receive exclusive discounts and offers on BPB books and eBooks.

xii

xiii

Piracy

If you come across any illegal copies of our works in any form on the internet, we would be grateful if you would provide us with the location address or website name. Please contact us at **business@bpbonline.com** with a link to the material.

If you are interested in becoming an author

If there is a topic that you have expertise in, and you are interested in either writing or contributing to a book, please visit **www.bpbonline.com**. We have worked with thousands of developers and tech professionals, just like you, to help them share their insights with the global tech community. You can make a general application, apply for a specific hot topic that we are recruiting an author for, or submit your own idea.

Reviews

Please leave a review. Once you have read and used this book, why not leave a review on the site that you purchased it from? Potential readers can then see and use your unbiased opinion to make purchase decisions. We at BPB can understand what you think about our products, and our authors can see your feedback on their book. Thank you!

For more information about BPB, please visit www.bpbonline.com.

Join our book's Discord space

Join the book's Discord Workspace for Latest updates, Offers, Tech happenings around the world, New Release and Sessions with the Authors:

https://discord.bpbonline.com



Table of Contents

1. Introduction	1
Introduction	1
Structure	2
Objectives	2
1.1 IBM resources	2
1.1.1 License requirements UVU PVU	
1.1.2 Fix Pack Location and versions	
1.1.3 Compatibility matrix URLs	9
1.2 IBM Redbook publications	
1.3 ASB Software Development Limited Publications	
1.4 Online technical references	14
1.4.1 Supporting databases	
1.4.2 Component interactions with system architecture diagrams and performance issues	
1.4.3 Upgrade paths and supported versions for upgrade	
1.4.4 Version end-of-life and roadmap	
Conclusion	
Points to remember	
Multiple choice questions	
Answers	
Questions	
Key terms	
2. Installation Preparation	
Introduction	
Structure	
Objectives	
2.1 IBM component software compatibility matrix	22
2.2 IBM download procedures	25
2.2.1 Downloading the IBM eAssembly components for Linux	25
2.2.2 IBM download director installation and use	
2.2.2.1 License restrictions	
2.2.2.2 IBM download and licensing jars for DB2	
2.2.3 IBM Installation Manager download options and procedure	

xiv

xv

2.3 On-premises server configurations and prerequisites - RedHat 8.0
2.3.1 RedHat Linux downloading and using of subscription manager
2.3.2 Use of ftp/sftp, VMware mapped folders and ssh/scp for file copy
2.4 On-premises server configurations and prerequisites - Windows 10.0 38
2.5 On-premises server configurations and prerequisites - RedHat Openshift 4.x
Conclusion
Points to remember
Multiple choice questions40
Answers
Questions
Key terms
3. System Sizing
Introduction
Structure
Objectives
3.1 IBM ICCP Tool (SCout) for system sizing
3.1.1 The procedure to collect report data for the IBM ICCP (IBM SCout) tool 44
3.1.1.1 Installation of the IBM system dashboard for Enterprise Content Management
3.1.1.2 To create an IBM ICCP report
3.1.1.2.1 Virtualized environment modelling (that is, Hypervisor / VMware hosted systems)46
3.1.1.2.2 IBM FileNet Process Engine Server Farming & Sizing47
3.1.1.2.3 IBM ICCP Interface Overview and Layout
3.2 Inputs required from the client47
3.2.1 ICCP for Watson Advanced Care Insights
3.2.2 ICCP walkthrough wizard55
Conclusion
Points to remember55
Multiple choice questions56
Answers
Questions
Key terms

xvi

4. Installation Downloads	59
Introduction	59
Structure	60
Objectives	60
4.1 IBM Fix Packs	60
4.2 IBM Cloud Pak systems - setting up an IBM Cloud account	61
4.2.1 The IBM Cloud Dashboard	63
4.2.2 Kubernetes	66
4.2.3 VPC infrastructure	67
4.3 Docker Container installation	68
4.3.1 Docker account creation	68
4.3.2 Installing Docker	69
4.3.2.1 Installing Docker 18.09.2 on RHEL 8.0	69
4.4 RedHat OpenShift 4.x installation	
4.4.1 Overview	
4.4.2 Pre-requisites	71
4.4.3 Firewall configuration	72
4.4.4 Installation downloads	72
4.4.5 Required machines	74
4.4.6 Network connectivity requirements	74
4.4.7 Certificate signing requests	75
4.4.8 Creating the user-provisioned infrastructure	
4.4.9 Generating an SSH private key	75
4.4.10 Obtaining the installation program	
4.4.11 Installing the CLI	80
4.5 IBM Cloud Private installation	
4.5.1 Installing a Linux DNS server on VMware 15.1	
4.5.1.1 Red Hat Linux RHEL 8.1	
4.5.1.2 Installing a Linux DNS Server on VMware 15.1	82
4.5.1.3Update of libraries and X-Window installs to match IBM Foundation 5.5.3 requirements	
4.5.1.4 Installing "xorg-x11-apps" package in RHEL9	
4.5.2 Boot Node requirements	
4.5.3 Installing bind and configure to create a DNS Server	

xvii

	4.5.4 Configuring the firewall	86
	4.5.5 Back up the main configuration files	86
	4.5.6 Set up the DNS server with a static IP address	86
	4.5.7 Installing Docker 18.09.2 on CentOS 8.0	87
	4.5.8 Installing IBM Private Cloud	87
	4.6 Red Hat Linux 8.x installation on VMWare	87
	4.6.1 Download RHEL 8.0 iso image	88
	4.6.2 Installing Red Hat Linux 8.0 on VMware	88
	4.6.3 Updating of libraries and X-Window installs	88
	4.6.4 Environment	88
	Conclusion	89
	Points to remember	89
	Multiple choice questions	90
	Answers	91
	Questions	91
	Key terms	91
5.	Operating System and Platforms	93
	Introduction	93
	Structure	94
	Objectives	94
	5.1 IBM Cloud Pak systems	94
	5.1.1 Storage creation	94
	5.1.2 Resources	96
	5.1.3 Cloud Foundry	96
	5.1.4 OpenShift	97
	5.1.5 VMware	98
	5.1.6 Blockchain	98
	5.1.7 Managed solutions	98
	5.1.8 Billing and usage – Cloud pricing	99
	5.2 Docker commands	100
	5.2.1 Docker pull command	100
	5.2.2 Docker exec command	101
	5.2.3 Docker ps command	102
	5.2.4 Docker run command	103

5.3 RedHat OpenShift Cluster Management	
5.3.1 Boot node requirements	
5.3.2 Internet and telemetry access	
5.3.3 Minimum resource requirements	
5.3.4 Certificate signing requests	104
5.3.4.1 RHEL 8 System registered through the subscription mana	ıger104
5.3.4.2 Red Hat CentOS 8.0 Streaming	105
5.3.4.3 CENTOS 8 download and install	105
5.4 VMWare 16.6.x upgrade	
5.5 CentOS 8.0 streaming upgrade	106
5.6 Install IBM Private Cloud	
5.7 Red Hat Linux 8.x Installation on VMWare	107
5.7.1 Download RHEL 8.0 iso image	
5.7.2 Checking available repositories	
5.7.3 Korn shell and user creation	
5.8 Windows 10 server	109
Conclusion	109
Points to remember	110
Multiple choice questions	110
Answers	111
Questions	111
Key terms	
6. Security and Users	113
Introduction	113
Structure	
Objectives	
6.1 Preparation for IBM Security Directory Services	
6.1.1 Download from IBM PartnerWorld Software Access Catalog or p advantage	
6.1.2 Korn Shell and user creation	
6.1.2.1 Commands to create the LDAP user and group	
6.2 Downloading installation manager	
6.3 Running the installation for IBM Installation Manager	
6.3.1 Installing WebSphere 8.5.5 Fix Pack 20	
0 1	

xix

6.4 Installation of WebSphere 8.5.5.x	122
6.5 Installing IBM Security Directory Server 6.4 components	125
6.5.1 Installation using the disk image file, sds64-linux-x86-64.iso	126
6.5.1.1 Directory server instance owner	128
6.5.1.2 Adding grrdbm01 primary group to root user	128
6.5.1.3 Resolving the problem	131
6.5.1.4 Change the hostname to ECMUKDEMO6	132
6.6 IBM Security Directory Suite 8.0	
Conclusion	133
Points to remember	133
Multiple choice questions	134
Answers	
Questions	135
Key terms	135
7. IBM BAW 21.0.3 Upgrade Installation from BAW 18.6.1.19002	
Introduction	137
Structure	138
Objectives	138
7.1 IBM Workflow Center 8.6	139
7.1.1 Restarting and upgrading the system	139
7.1.2 Transferring the downloaded upgrade software packages	147
7.1.3 Using the IBM Installation Manager to run the Upgrade	154
7.1.3.1 Important post installation upgrade	165
7.1.4 Adding an unmanaged node	166
7.1.5 Installing a stand-alone installation in IBM BPM 8.x	166
7.1.6 Creating the PFS Process Federation Server on Liberty	166
7.1.7 IBM Business Process Management V8.5.7	166
7.1.8 Advanced Linux custom using the command line with DB2 Express	166
7.1.8.1 Settings using the advanced BPMConfig installation	167
Conclusion	167
Points to remember	
Multiple choice questions	168
Answers	
Questions	
Key terms	169

xx

8.	Cloud Based Systems	171
	Introduction	171
	Structure	171
	Objectives	172
	8.1 Installing IBM Cloud private and IBM FileNet P8 CPIT	172
	8.1.1 Installing IBM Private Cloud	173
	8.1.2 System requirements	173
	8.1.3 Single node cluster hardware requirements	173
	8.1.3.1 Master and Boot Node Requirements	174
	8.1.3.2 Using docker pull on the Master Boot Node	174
	8.1.4 Master node requirements	176
	8.1.4.1 Installation procedure	176
	8.1.4.2 Installing the Fix Pack icp-3.2.1.2203-build601095-48411	188
	8.2 Installing Eclipse Codewind and Docker Compose with IBM Cloud Private CE	196
	8.3 Preparing a new Object Store for IBM Cloud Private P8 Container CP	IT.199
	8.3.1 Requirements and prerequisites	200
	8.3.1.1 Preparing for container installation	200
	8.3.1.2 Preparing Content Platform Engine for a 2nd Object Store	201
	8.3.1.3 Creating the script for OS2DB.sh	202
	8.3.1.4 setup_db2_for_OS2DB.sh	208
	8.3.1.5 Edit the deployDB2_OS2DB.sh shell script file	210
	8.3.1.6 Edit the createP8OS2.sh shell script file	213
	8.3.1.7 Editing the MainCreateTargetOS.sh shell script	215
	8.3.1.8 Log into the acce tool to create the Object Store and Workflow sub-system	218
	Conclusion	218
	Points to remember	218
	Multiple choice questions	219
	Answers	
	Questions	220
	Key terms	

	xxi

Introduction	
Structure	22
Objectives	222
9.1 Supporting IBM System Components (IBM Security Directory Suite)	222
9.1.1 Resources	222
9.1.2 Installing a new LDAP Server	223
9.1.3 Installing IBM Security Directory Suite	243
9.1.3.1 Configuring the second Host only Network Card	26
9.1.3.2 Adding users and groups to the container, cn=localhost	27
9.1.3.3 Adding the LDAP groups	27
9.1.3.4 Managing server properties to add a new Suffix, o=asbsoftware.	28
Conclusion	289
Points to remember	289
Multiple choice questions	289
Answers	290
Questions	290
Key terms	290
10. Installing IBM WebSphere 9.0.5.14	 29 3
Introduction	293
Structure	293
Objectives	294
10.1 Installing IBM WebSphere	294
10.1.1 Steps to create a profile AppSrv01	319
10.1.2 Repeating above steps to create a second profile AppSrv02	323
10.1.3 Setting up the LDAP Server authentication	342
10.1.4 Setting up the Firewall ports	375
Conclusion	375
Points to remember	375
Multiple choice questions	376
Answers	376
Questions	376

xxii

11.	Problem Resolution Procedures and Installing DB2 11.5.7	379
	Introduction	.379
	Structure	379
	Objectives	380
	11.1 Problem resolution procedures for fixing software installation issues	380
	11.1.1 IBM WebSphere configuration issues and fixes	380
	11.1.1.1 Deleting a WebSphere Profile (if required)	.380
	11.1.1.2 WebSphere 9.0.5 timeouts and configuration	.381
	11.1.1.2.1 Disabling HTTPOnly settings for Java applets	.381
	11.1.1.2.2 To do before resetting a test environment in IBM case builder	384
	11.1.1.3 Custom WebSphere property for separate profiles in the Same Server	. 388
	11.1.1.4 Unticking the Java 2 security for both profiles (AppSrv01 and AppSrv02)	. 390
	11.1.1.5 LTPA keyset configuration and key export and import	.390
	11.2 Installing and configuring IBM Db2 database	.397
	11.2.1 Creating a GCD database using DB2	408
	11.2.2 Db2 database SQL creation	409
	11.2.2.1 Creating and updating the DB2 database	.410
	11.2.2.2 Creating the DB2 SQL script for the object stores for Linux envir ments	
	11.2.2.3 WebSphere environment for the database JDBC jar files	.415
	11.2.2.4 Setting the DB2 environment variables	.417
	11.2.3 Db2 configuration issues and fixes	421
	11.2.3.1 Procedure to drop DB2 GCD database schema tables to	
	rebuild the P8 domain	.422
	Conclusion	.423
	Points to remember	423
	Multiple choice questions	423
	Answers	.424
	Questions	424
	Key terms	.424

xxiii

12.	Installing IBM Content Foundation 5.5.10	427
	Introduction	
	Structure	
	Objectives	
	12.1 Installing IBM Content Foundation 5.5.10	
	12.1.1 Installing ICF 5.5.10	
	12.1.1.1 Select the Oracle or DB2 JDBC Driver	452
	12.1.1.2 Configuring GCD for DB2 11.5 Fix Pack 14 Database	452
	12.1.1.3 Configuring the DB2 DOS1 Development Object Store	454
	12.1.1.4 Copy the Configure Object Store JDBC task	
	for the TOS1 Target Store	454
	12.1.1.5 Example of configuring for Oracle GCD database	458
	12.1.1.6 Open LDAP and DB2 ports 389, 2809 and	
	25010 and 50000 connections	458
	12.1.1.7 Starting the FileNet Engine application	459
	12.1.1.8 Creating the DOS1 Object Store Workflow System	
	12.1.2 Installing ICF Client 5.5.10	
	Conclusion	
	Points to remember	
	Multiple choice questions	
	Answers	
	Questions	
	Key terms	
13.	Installing Content Navigator 3.0.13 and Case Manager 5.3.3	503
	Introduction	
	Structure	
	Objectives	
	13.1 Installing IBM Content Navigator 3.0.6	
	13.1.1 Creating the ECM Database for IBM Content Navigator	
	13.1.2 Downloading the latest IBM Content Navigator Version 3.0.13	505
	13.2 Installing Case Manager 5.3.3	
	13.2.1 Downloading the IBM Case Manager Interim Fix software packag	
	13.2.2 Configuring the development environment by running the following tasks	545

xxiv

	Conclusion	51
	Points to remember	51
	Multiple choice questions	52
	Answers	53
	Questions	53
	Key terms	53
14.	Importing the Case Manager Solution5	55
	Introduction	55
	Structure	55
	Objectives	56
	14.1 Importing the Case Manager solution	56
	14.1.1 Resources	56
	14.1.2 Rules ODMMessages.jar copy to fix the solution validate issues	67
	14.1.3 Installing standalone Process Designer50	83
	Conclusion	97
	Points to remember	97
	Multiple choice questions	98
	Answers	98
	Questions	98
	Key terms	98
15.	Configuring the Case Manager Solution6	
	Introduction	01
	Structure	01
	Objectives	02
	15.1 Creating the supporting AUTOC Database and eForms	02
	15.1.1 Fixing for error FNRPA0663E with standalone Process Designer6	12
	15.1.2 Working version of the GetPolicyData Stored Procedure6	16
	15.1.3 Importing eForm templates6.	27
	15.1.4 Downloading and Installing IBM P8 eForms Designer Fix Pack 46.	27
	15.1.5 Adding the three eForm templates to a folder in the target Object Store6.	31
	15.1.6 Updating the links to the eForm templates in the Auto Claim tasks64	41
	15.1.7 FNOL eForm JDBC data source	
	15.1.8 Opening the FNOL eForm in the eForms Designer Tool File Open6	
	15.1.9 IBM License agreement for the Auto Claims solution	61

xxv

Downloader agreement	661
Conclusion	
Points to remember	
Multiple choice questions	
Answers	
Questions	
Key terms	
16. Installing and Configuring IBM Content Search Services 5.5.1	0665
Introduction	
Structure	
Objectives	
16.1 Installing and configuring IBM Content Search Services 5.5.	.10
16.1.1 Installing CSS on ecmukdemo22	
16.1.2 Starting the CSS Server	
16.1.3 Using the mount points	
16.1.4 Creating an Affinity Group called Search2	
16.1.5 Creating a new search server object for the P8 domain	
16.1.6 Creating an Index area on CPE on ecmukdemo6	
16.1.7 Enabling CBR (Content Based Retrieval) on an Object Stor	°e687
16.1.8 Ticking the box to enable Content Search Services	
16.1.9 Adding the CBR flag for the AbstractText property	
16.1.10 Importing a published installation document	
16.1.11 Indexing existing documents	
16.1.12 CSS Text processing Jobs all Terminated Normally on OS2	1701
16.1.13 Searching using Content Navigator	
16.1.14 CSS Shared area with indexes for OS1	
Conclusion	
Points to remember	
Multiple choice questions	
Answers	
Questions	
Key terms	709

xxvi

17. Installing and Configuring IBM Case Analyzer 5.5 and	
IBM Case Monitor Dashboard 5.3.3	
Introduction	711
Structure	711
Objectives	712
17.1 Installing and Configuring IBM Case Analyzer 5.5	712
17.1.1 Creating an IBM FileNet CASTORE Datasource pair for the Datasource	712
17.1.2 Creating a CASTORE database using DB2	716
17.1.3 Creating Websphere Datasources	718
17.2 IBM Case Monitor Dashboard 5.3.3 plugin	732
Conclusion	743
Points to remember	744
Multiple choice questions	744
Answers	744
Questions	744
Key terms	

Chapter 1 Introduction

Introduction

This chapter covers the *Bill of Materials* for IBM information management products, including IBM FileNet P8 5.5.x, IBM BAW 21.0.x - IBM Workflow Center 8.6.1.1900x, IBM Case Manager 5.3.3, IBM Case Analyzer 5.5, IBM Content Navigator 3.0.x and IBM Content Foundation 5.5.x. It also covers the download of the supporting software systems; IBM Cloud Private and IBM FileNet P8 CPIT, IBM Security Directory Services 6.4, IBM Security Directory Suite 8.x, IBM WebSphere 8.5.5.20 (minimum support for IBM FileNet 5.5.9), IBM CEBI Content Engine Bulk Import Document Batch Tool, IBM Content Search Services 5.5.x, IBM Case Monitor Dashboard 5.3.x plugin, IBM Case Manager auto claims example, Oracle 12C on the Linux operating system and LibreOffice 6.3.x.

Further, the chapter describes the download site URLs, product codes, descriptions and size and name of the download GZIP tar files for each software download. It also includes the summary contents of each of the available IBM Redbook publications which supports the use of the listed IBM software products.

Structure

In this chapter, we will discuss the following topics:

- IBM resources
- License requirements UVU PVU
- Fix Pack Location and versions
- Compatibility Matrix URLs
- IBM RedBook publications
- ASB Software Development Limited Publications
- Online technical references
- Supporting databases
- Component Interactions with system architecture diagrams and performance issues
- Upgrade paths and supported versions for upgrade
- Version end-of-life and roadmap

Objectives

After studying this unit, you will be able to identify the prerequisite versions of the supporting software components required for support of a number of leading IBM software application systems, including:

- IBM FileNet as document management system
- IBM Business Automation workflow
- IBM Case Management

1.1 IBM resources

The IBM FileNet latest release, has the dependencies and related IBM Software Products covered by the IBM Cloud Pak for Business Automation up to V 21.0.3 (V22.0.1, for the container versions) with URL reference:

https://www.ibm.com/support/pages/ibm-cloud-pak-business-automation-2201-download-document

The main IBM Support site for the links to each version of IBM Business Automation Workflow for on-site, bare-metal servers, can be found using the following URL link:

https://www.ibm.com/support/pages/ibm-business-automation-workflow-download-documents

The following table extract lists the Part Numbers for the packages which can be used to upgrade the on-premises version V19.0.0.2 to V21.0.3, which we cover fully in *Chapter 7: IBM BAW 21.0.3 Upgrade Installation from BAW 18.6.1.19002*, of this book.

For IBM BAW 21.0.3 on a VMware Linux server (on a Windows server host), use the following eAssembly numbers (you will see that the download is split into 3 parts) as illustrated in *Table 1.1:*

For IBM BAW 21.0.3 on Linux
IBM Business Automation Workflow Enterprise 21.0.3 for Linux
X86 64Bit (1 of 3) Multilingual
IBM Business Automation Workflow Enterprise 21.0.3 for Linux
X86 64Bit (2 of 3) Multilingual
IBM Business Automation Workflow Enterprise 21.0.3 for Linux
X86 64Bit (3 of 3) Multilingual

(Refer: https://www.ibm.com/support/pages/node/6507347)

 Table 1.1: Part numbers for the Linux IBM BAW software installation package

For the IBM Filenet Multiplatform V5.5.9 Multilingual eAssembly, use the software listed in *Table 1.2*:

Part number	Windows and Linux Servers and DB2 License Keys
CC9WGML	IBM Db2 OEM High Capacity - Restricted Use V11.5.6 - Activation
G01LWML	IBM Db2 Standard - Restricted Use - Activation

Table 1.2: The Part numbers for IBM FileNet V 5.5.9 compatible DB2 11.5 installation

The full screenshots for the step-by-step download of the DB2 10.5 base version (Part Number CIXV0ML) is covered on the pages 107 -108 of the document **DB210.5InstallationonRHEL8.0_V1.docx** which can be downloaded from the URL, **https://doi.org/10.13140/RG.2.2.10491.67369**. (*Titled, DB2 10.5 Installation on CENTOS 8.0 V1*)

The URL, https://www.ibm.com/support/pages/download-ibm-filenet-contentmanager-version-559 lists all the components supported for the latest version of IBM FileNet Content Manager 5.5.9.

Search using the M070SML Part number as shown in the *Table 1.3:*

IBM FileNet Content Platform Engine 5.5.9

Component description	eSD Part number
IBM FileNet Content Platform Engine V5.5.9 Linux	M070SML
Multilingual - Date Posted 6/30/2022 Size 1,033 MB	

Table 1.3: The Part number and description displayed in the search results

The following example downloads can be repeated for all the part numbers listed in *Tables 1.1* to *1.3*, using the link, https://www-356.ibm.com/partnerworld/partnertools/eorderweb/ordersw.do.

Log in, then scroll down and use **Find By Part Number** as shown in *Figure 1.1*:

Software access catalog downloads

Overview

IBM's Software Access Catalog allows you to download IBM software products at no charge. The products downloaded may only be used for demonstration, evaluation, development,testing, education, and limited internal "Run Your Business" purposes as specified in the PartnerWorld Software Usage Attachment.

Note that some products require a license key for operation. Look for links to more details in the "Related links" list on the left navigation bar of this page.

Notice: QRadar 7.3.1 contains an operating system upgrade. This upgrade has been found to cause occasional spontaneous reboots on some M5 hardware. Please see APAR IJ02902 for more detail. Additional information can also be found in this Flash.

Part number

Search options

Text Brand

Find by part number

Part numbers	
M063QML	
Enter single or multiple part	numbers (separated by commas) and click Search. Example: CRPQ4EN, C47EHML.
Download method 🛈	
 Download Director 	O HTTP
Search	

Figure 1.1: The current version of IBM FileNet V5.5.9 released 30th June 2022