

# Managing the ServiceNow Platform

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*A comprehensive guide to ServiceNow administration*

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**Felix Acosta**



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**Dedicated to**

*My beloved wife:*

***Martha***

*&*

*My Son Benjamin*

## About the Author

**Felix Acosta** has spent over ten years developing and implementing ServiceNow for many organizations and over 20 years working with different service management solutions. Throughout his experience, Felix has played many roles, including developer, architect, and project manager, and has coached and mentored many ServiceNow consultants, developers, and administrators.

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Finally, I would like to thank all the readers who have taken an interest in my book and for their support in making it a reality. Your encouragement has been invaluable.

# Preface

If you are reading this, odds are that you have heard about ServiceNow and you are eager to learn more. You are in the right place.

This book is designed to be an easy and friendly introductory guide, intending to start the reader's journey into ServiceNow smoothly.

Throughout this book, you will find key concepts used on the platform and many practical examples of configuration and administration to help the reader quickly and easily understand what it can do and how to do it best.

This book is designed for new administrators, developers, and managers; written with an easy approach that requires no previous software development experience or technical background. This book is for anyone.

After reading this book, you will have a solid understanding of the platform's fundamentals from a practical, hands-on perspective.

**Chapter 1: Overview of ServiceNow** – It provides a quick introduction to the ServiceNow platform, along with some additional context and history to help better understand the reason for the architectural and design patterns found in ServiceNow.

**Chapter 2: The Platform Building Blocks** – It presents an overview of the core building blocks of the ServiceNow platform that any administrator should be able to understand. The ServiceNow platform uses a consistent model and codebase, and most ServiceNow applications use these core building blocks.

**Chapter 3: Managing Users, Foundational Data, and Platform Security** – This chapter covers key concepts of managing users and access in the system, along with the different strategies that can be used to manage these.

**Chapter 4: Configuring Forms and Lists** – This chapter covers aspects of forms and lists in ServiceNow. Forms and lists can be easily configured to help users manipulate and interact with data in ServiceNow. It is essential for the reader to understand these concepts.

**Chapter 5: Configuring Workflows Using Flow Designer** – It provides a quick introduction and practical examples of the usage of Flow Designer. Flow Designer is a powerful workflow automation editor native to ServiceNow, which is used broadly for task workflows.

**Chapter 6: Configuring Business Rules** – It allows the reader to learn basic business rules concepts through practical examples. Business rules in ServiceNow allow for easy modification of values on a record based on the given conditions.

**Chapter 7: Configuring for Mobile** – It provides the reader with some practical examples and exercises to get familiar with the mobile capabilities of the ServiceNow platform.

**Chapter 8: Configuring and Creating Portals** – It provides some practical examples and exercises for configuring portals. ServiceNow’s Service Portal is a full-fledged Content Management System (CMS) that provides powerful and robust tools for building self-contained websites.

**Chapter 9: Configuring and Managing Notifications** – It explains key notification configuration concepts the reader can leverage to help engage users with different notifications and messages with examples.

**Chapter 10: Importing and Exporting Data** – It provides the reader with the use cases, examples, and concepts for importing and exporting data in ServiceNow. These features are essential for managing large volumes of data and ensuring data consistency and accuracy across the platform.

**Chapter 11: Integration Concepts with ServiceNow** – It allows the reader to understand better the different integration use cases and how to configure the platform for different system integration scenarios through practical examples and descriptions.

**Chapter 12: Scripting Concepts and Examples** – It provides the reader with some examples and exercises for scripting in ServiceNow, using illustrative cases that showcase some of the tools available to the reader in the platform.

**Chapter 13: Managing Releases and Troubleshooting the Platform** – In this chapter, the reader will learn concepts to manage the daily needs of the ServiceNow platform better. These include managing configuration versions, update sets, application scopes, source control integration, and basic troubleshooting and debugging advice.

**Chapter 14: Additional Training and Resources** – In this chapter, the reader will understand some better key additional resources to continue the learning journey.

## Code Bundle and Coloured Images

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

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# Table of Contents

<b>1. Overview of ServiceNow</b> .....	<b>1</b>
Introduction .....	1
Structure .....	2
Objectives .....	3
Introduction to ServiceNow .....	3
<i>A brief history of ServiceNow</i> .....	3
<i>The current state of ServiceNow</i> .....	5
<i>Some notes on ITIL</i> .....	6
Architecture fundamentals of ServiceNow .....	7
The technology infrastructure .....	7
How the platform is built .....	8
<i>The user interface</i> .....	9
<i>Client-side logic and presentation engines</i> .....	9
<i>The server-side logic engines</i> .....	10
<i>The security engines</i> .....	10
<i>The supporting engines</i> .....	10
Conclusion.....	11
<b>2. The Platform Building Blocks</b> .....	<b>13</b>
Introduction .....	13
Structure .....	14
Objectives .....	14
The user interface.....	14
<i>Mobile</i> .....	14
<i>Workspace user interface</i> .....	16
<i>ServiceNow traditional UI</i> .....	17
<i>Portal</i> .....	18
<i>UI integration</i> .....	19
Client-side logic and presentation engines .....	19

---

Forms .....	20
UI policies and client scripts .....	21
Lists.....	22
Widgets .....	23
Reports and performance analytics dashboards .....	23
Server-side logic engines.....	24
Scheduled jobs.....	24
Business rules .....	25
Script includes .....	26
Flow Designer and Integration Hub .....	26
Import/Export sets and transform maps .....	27
Notifications.....	28
Querying and dot-walking.....	28
Record auditability .....	29
Attachment handling.....	30
System dictionary and tables administration.....	31
Security engines.....	32
Access Control Lists .....	32
User authentication .....	33
Groups and user management.....	33
Access management and roles .....	33
Application scope.....	34
Supporting engines.....	34
ServiceNow APIs.....	34
Management, instrumentation, discovery servers, and the external communication channel queue .....	35
System logs and debugging.....	35
Update sets, versioning, and source control .....	36
Data import, export, and integration.....	37
Conclusion.....	38
<b>3. Managing Users, Foundational Data, and Platform Security.....</b>	<b>39</b>
Introduction .....	39

---

Structure .....	41
Objectives .....	41
Users and authentication .....	41
<i>Example – Creating and managing user accounts</i> .....	42
Roles and access management .....	45
Managing groups and personas .....	49
Other foundational data.....	54
Conclusion.....	56
<b>4. Configuring Forms and Lists.....</b>	<b>57</b>
Introduction .....	57
Structure .....	57
Objectives .....	58
Fields.....	58
<i>Example – Creating fields to help manage car wash jobs</i> .....	58
Forms and lists.....	66
<i>Example – Creating and interacting with lists interactively</i> .....	67
Application and modules .....	71
<i>Example – Creating navigation aids to help us navigate our application in ServiceNow</i> ..	72
UI and data policies .....	73
<i>Example – Configuring UI and data policies to manage our car wash request form better</i>	73
System dictionary.....	78
<i>Example – Using the system dictionary to modify the behavior of the Assigned to and the Lane fields</i> .....	78
Conclusion.....	79
<b>5. Configuring Workflows Using Flow Designer .....</b>	<b>81</b>
Introduction .....	81
Structure .....	82
Objectives .....	82
Creating a flow in Flow Designer and requesting approvals .....	82
<i>Example – Creating a flow to request approvals</i> .....	82
Updating records with Flow Designer .....	88

<i>Example – Updating the state of the record based on an approval condition</i> .....	88
Using subflows .....	93
<i>Example – Creating a subflow to assign a car wash task record</i> .....	94
<i>Example – Using the Look Up Record action</i> .....	95
<i>Example – Updating a record with a flow action</i> .....	97
<i>Example- Passing data to an output variable</i> .....	98
<i>Example – Calling a subflow from a flow</i> .....	101
Conclusion.....	102
<b>6. Configuring Business Rules</b> .....	<b>103</b>
Introduction .....	103
Structure .....	104
Objectives .....	104
Introduction to business rules.....	104
Before business rules .....	106
<i>Example – Business rule to set car wash priority based on car size</i> .....	107
<i>Example – Before business rule to abort an action</i> .....	109
<i>Example – Query business rules</i> .....	112
After business rules .....	113
<i>Example – Commenting other records</i> .....	113
Display business rules.....	116
<i>Example – Getting server-side user information to display</i> .....	116
<i>Example – Using display business rules to show data from other records</i> .....	119
<i>Async business rules</i> .....	121
Conclusion.....	123
<b>7. Configuring for Mobile</b> .....	<b>125</b>
Introduction .....	125
Structure .....	126
Objectives .....	126
Basic Mobile app configuration .....	127
<i>Example – Configuring the Now Mobile App to connect with our ServiceNow instance</i> .....	127
Configuring navigation.....	129

---

<i>Example – Creating a Mobile app using the app builder</i> .....	130
<i>Example – Creating a launcher and managing data streams</i> .....	133
Consuming data from lists .....	136
<i>Example – Launcher for data list views</i> .....	136
<i>Example – Configuring a detailed record view</i> .....	142
Styling templates and UI rules.....	145
<i>Example – Configuring template styles</i> .....	145
<i>Example – Creating a UI style</i> .....	147
Mobile functions.....	149
<i>Example – Creating a record from the mobile app</i> .....	149
Conclusion.....	155
<b>8. Configuring and Creating Portals .....</b>	<b>157</b>
Introduction .....	157
Structure .....	158
Objectives .....	158
The service portal foundation .....	158
<i>Example – Create a service portal</i> .....	159
<i>Example – Resolving cross-scope issues</i> .....	164
<i>Example – Updating the theme branding</i> .....	164
Service portal pages.....	167
<i>Example – Creating a simple page to view car wash historical requests in a list</i> .....	167
<i>Example – Creating a detailed record page</i> .....	170
<i>Example – Configuring attributes and linking forms</i> .....	172
Widgets .....	174
<i>Example – Creating a new widget and adding it to a page</i> .....	174
<i>Example – Displaying server-side information back to a widget</i> .....	175
<i>Example – Interacting with HTML using Angular directives</i> .....	177
<i>Example – Submitting data from an HTML template to the server</i> .....	180
Headers and footers.....	184
<i>Example – Modifying a menu</i> .....	186
Conclusion.....	189

---

<b>9. Configuring and Managing Notifications .....</b>	<b>191</b>
Introduction .....	191
Structure .....	191
Objectives .....	192
Configuring the mailbox and emails.....	192
Email client.....	192
<i>Example – Configuring the email client .....</i>	<i>192</i>
<i>Example – Building a dynamic email template.....</i>	<i>194</i>
Email notifications .....	196
<i>Example – Subscribable notification .....</i>	<i>196</i>
Push notifications.....	198
<i>Example – Building a custom push notification.....</i>	<i>199</i>
Notification templates and scripts.....	203
<i>Example – Building a custom template leveraging email scripts.....</i>	<i>203</i>
Conclusion.....	206
<b>10. Importing and Exporting Data.....</b>	<b>207</b>
Introduction .....	207
Structure .....	207
Objectives .....	208
Importing data with Integration Hub - Import.....	208
<i>Example – Loading customer data into ServiceNow .....</i>	<i>208</i>
Transform maps.....	213
<i>Example - Populating roles in ServiceNow using standard import sets and transform maps.....</i>	<i>213</i>
Data source options and import schedules.....	218
Exporting data .....	219
<i>Example – Exporting car wash customer’s data.....</i>	<i>219</i>
Conclusion.....	220
<b>11. Integration Concepts with ServiceNow.....</b>	<b>221</b>
Introduction .....	221
Structure .....	221

---

Objectives .....	222
Typical ServiceNow integration patterns .....	222
Inbound - REST API based integration .....	223
<i>Example – Accessing car wash requests using ServiceNow’s platform REST APIs .....</i>	<i>224</i>
Outbound integration using Integration Hub .....	227
<i>Example – Using a web service to populate weather data in a record.....</i>	<i>228</i>
Custom inbound REST integration with Integration Hub .....	240
<i>Example – Custom API to create a car wash request .....</i>	<i>241</i>
Conclusion.....	244
<b>12. Scripting Concepts and Examples.....</b>	<b>245</b>
Introduction .....	245
Structure .....	245
Objectives .....	246
Key scripting concepts in ServiceNow .....	246
<i>JavaScript.....</i>	<i>246</i>
<i>Server-side scripting.....</i>	<i>246</i>
<i>Client-side scripting .....</i>	<i>246</i>
<i>Script includes .....</i>	<i>247</i>
<i>ServiceNow APIs.....</i>	<i>247</i>
<i>Scope .....</i>	<i>247</i>
GlideForm .....	247
<i>Example – Using GlideForm to interact with forms .....</i>	<i>247</i>
<i>Example - Using GlideForm to remove choices .....</i>	<i>250</i>
GlideRecord .....	250
<i>Example – Using GlideRecord to query a record.....</i>	<i>251</i>
<i>Example – Using GlideRecord to cancel existing records and create new records .....</i>	<i>252</i>
GlideAjax.....	253
<i>Example – Using GlideAjax to query case data.....</i>	<i>254</i>
GlideSession and GlideUser.....	257
<i>Example – Using GlideSession to interact with user data .....</i>	<i>257</i>
<i>Example – Creating a custom button to cancel a record for supervisors only .....</i>	<i>258</i>
Parsing JSON objects .....	260



<i>Example – Passing additional data using GlideAjax and JSON</i> .....	260
Manipulating arrays .....	261
<i>Example – Formatting data using array manipulation</i> .....	262
Using REGEX patterns .....	263
<i>Example – Scrubbing credit card data using REGEX</i> .....	263
Conclusion.....	265
<b>13. Managing Releases and Troubleshooting the Platform .....</b>	<b>267</b>
Introduction .....	267
Structure .....	267
Objectives .....	267
Configuration versions.....	268
<i>Example – Reverting to the previous version of a script</i> .....	268
Update sets.....	269
<i>Example – Deploying update sets</i> .....	269
Application scopes and source control integration .....	272
<i>Example – Using GitHub for source control integration</i> .....	272
Troubleshooting and debugging.....	275
<i>Resolving access control issues</i> .....	276
<i>Example – Cannot see a record</i> .....	276
<i>Example – Cannot write to a specific field due to access control</i> .....	278
<i>Example – Client script not working</i> .....	279
<i>Example – Business rule not executing</i> .....	281
Conclusion.....	282
<b>14. Additional Training and Resources.....</b>	<b>283</b>
Introduction .....	283
Structure .....	283
Objectives .....	283
Web services.....	284
<i>Representational state transfer</i> .....	284
SOAP.....	284
GraphQL.....	284

---

<i>Hypertext transfer protocol</i> .....	285
Scripting.....	285
<i>JavaScript</i> .....	286
<i>HTML5 and CSS</i> .....	286
<i>Regular expressions</i> .....	286
Key security concepts .....	286
<i>Data encryption</i> .....	286
<i>Encryption at rest</i> .....	287
<i>Encryption in transit</i> .....	287
<i>Access and identity management</i> .....	287
<i>Authentication</i> .....	288
<i>Security assertion markup language</i> .....	288
<i>OpenId</i> .....	288
<i>Open authorization 2.0</i> .....	288
<i>Lightweight directory access protocol</i> .....	289
<i>Transport layer security and mTLS</i> .....	289
ServiceNow and ITIL.....	289
<i>ITIL</i> .....	289
<i>ServiceNow docs</i> .....	290
<i>ServiceNow's developer site</i> .....	290
<i>ServiceNow community</i> .....	290
<i>Now Learning</i> .....	290
Conclusion.....	291
<b>Index</b> .....	<b>293-299</b>

# CHAPTER 1

# Overview of ServiceNow

## Introduction

In this chapter, we will briefly introduce the platform, along with some context and history, to help you better understand the drivers and reasons for some architectural decisions and patterns observed across the platform.

If you are reading this, odds are that you are at least somewhat aware of ServiceNow, from the possibilities to the community and all the cool features and capabilities built around it. From its appealing user interface to its powerful integration capabilities, the platform is a playground for tinkerers and developers of all skill levels and is loved by end users.

Where we stand today, the ServiceNow platform has been proven to be a very effective tool to automate all sorts of processes across multiple enterprise disciplines: information technology, human resources, customer service, field services, risk management, and anything in between. It can be automated in ServiceNow if you can draw a diagram flow for it or track it in a spreadsheet. There is no shortage of use cases for the platform. Currently, solutions for the most common enterprise workflow problems have already been addressed by existing ServiceNow products. If there is not a solution already, you can quickly build it.

There is no shortage of resources around ServiceNow as long as you know where to find them. You can easily get a personal development instance to build any of your ideas with no cost, you can access many communities of interest and blogs around ServiceNow as long as you

know how to search the web, you have access to all the product and release documentation, and you also have access to all sorts of training and certifications, for free in many cases.



*Figure 1.1: Learning ServiceNow is like drinking from a firehose*

The wealth of ServiceNow online resources can be overwhelming. The problem we are presented with in ServiceNow is one of abundance: Where should we start?

That is the problem this book aims to solve. It will guide you through all the essential concepts that any platform manager or administrator needs to understand, explain why they are essential, and provide a launch platform on your journey to all things ServiceNow: training, advanced configuration, integration, specialized capabilities, the community, and other things. We hope this book will be a quick, easy, and digestible guide to ServiceNow for you.

Let us get started.

## Structure

We will discuss the following topics in this chapter:

- Introduction to ServiceNow
  - o A brief history of ServiceNow
  - o The current state of ServiceNow
  - o Some notes on ITIL
- Architecture fundamentals of ServiceNow
  - o The technology infrastructure
  - o How the platform is built

# Objectives

You will better understand the platform's key concepts and engines and go through a brief history of service management and ServiceNow.

## Introduction to ServiceNow

At its core, ServiceNow is a workflow automation platform that automates enterprise processes for all functions and departments, from information technology services to human resources, customer service, and risk and audit.

While often characterized as a ticketing system due to its roots managing information technology tasks for service desks and second-level support groups in its early days, it is important to note that over the years, ServiceNow has become the service automation platform of choice and system of engagement for the enterprise, responsible for end-to-end automation of all sorts of processes, from automating approvals and taking requests to automating the interaction with third-party systems and tools and serving as the front end to many supporting back-end processes and tools.

## A brief history of ServiceNow

Context is important to be able to understand anything in this world. For this reason, we should probably talk about how ServiceNow, **The Information Technology Infrastructure Library (ITIL)**, and other information technology service management systems got us to where we are today. The figure below provides a timeline of significant events in the history of ServiceNow and the evolution of service management as a practice. Refer to the following figure:

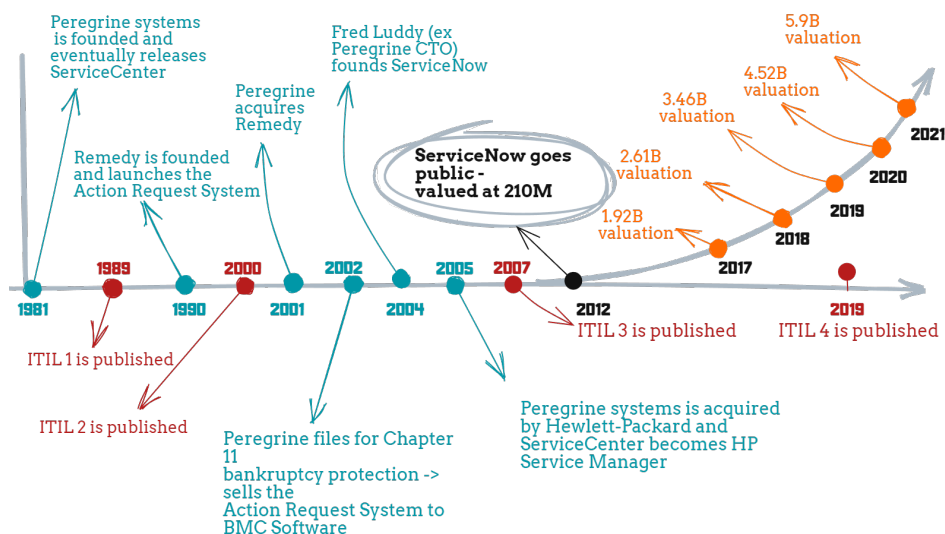


Figure 1.2: History of Service Management and ServiceNow

As shown in *Figure 1.2*, some important milestones around ServiceNow, ticketing systems, and ITIL are outlined below:

- In 1981, Peregrine Systems was founded. Peregrine systems created the Peregrine Network Management System, eventually added IT service management capabilities like request management, change management, and call management, and then evolved to Peregrine ServiceCenter over time.
- In 1989 ITIL v1 was released, setting up the foundation for IT Service Management processes. As the use of IT assets grew across organizations, the need for a stronger process foundation arose.
- In 1990, Remedy was founded, launching the Action Request System. At that time, the Action Request System provided the ability to customize process flows and forms.
- 2000 ITIL v2 was released, introducing the next iteration of ITSM processes to be used as a reference. ITIL v2 introduced concepts like the service desk, incident and change management processes, and capabilities like the CMDB as conceptual frameworks.
- 2001 Peregrine Systems acquired Remedy and the **Action Request System (ARS)**. Service management platforms and systems were still perceived as ticketing systems to help handle service desk calls.
- In 2002, Peregrine Systems filed for bankruptcy and sold its Action Request System to BMC, becoming the foundation for the BMC Service Management suite of products.
- In 2003, Fred Luddy (who served as Peregrine's CTO up to 2002) founded Glidesoft, which became ServiceNow in 2004. The original goal of ServiceNow was to focus on building a powerful workflow-based platform. Still, it took on IT Service Management first, given the demand and experience of the team.
- In 2007, ITIL v3 was released. By this time, ITIL v3 processes became more mainstream as IT organizations grew, and the need for better controls and efficiency grew. At this time, SaaS and Cloud first concepts started gaining ground (Amazon Web Services was launched in 2006), but most organizations were weary of using cloud-based systems.
- In 2012, ServiceNow became a public company. ServiceNow's simple cloud-based subscription model and ease of implementation became its differentiators. Keep in mind that configuring and implementing an on-premise system at this time typically took at least weeks in terms of the infrastructure alone, without even considering organization-specific configuration.
- By 2017, ServiceNow became the clear market leader in IT Service Management solutions, showing as a leader in most analyst books and dominating IT Service Management. At this point, ITIL became more mainstream. Other departments like IT, Audit, and Risk saw the potential benefit of using ServiceNow and a service management framework to set discipline and controls to their work.
- In 2019, COVID-19 came along, and mass adoption of remote work began. This put a lot of pressure on all organizations and departments to better manage their processes

in a remote setting, which led to the mainstream adoption and understanding of ServiceNow's capabilities as a platform.

- By 2022, ServiceNow was a recognized leader not only in IT Service Management solutions but also in multiple other domains where management of service-based transactions is needed.

## The current state of ServiceNow

ServiceNow's core technology strength is its unified platform. While other vendors have lost focus by acquiring disparate systems and then stitched together applications built with disparate technologies, ServiceNow has flawlessly stuck to its single-platform philosophy. While ServiceNow has acquired applications to be integrated into the ServiceNow ecosystem, all applications are re-platformed to the single-core platform foundations. Over time, this has gained momentum: applications are built faster on the platform, the core engines are improved, and the learning curve for developers is shortened.

On the technical front, ServiceNow does integrations well. It is easy to develop, provides various methods, and a flexible network access and security framework. This means ServiceNow can integrate with almost any modern system, and third-party systems have an easy time building plugins and APIs to integrate with ServiceNow. For this reason, a wealth of commercially available plugins and APIs are available via ServiceNow or by third parties today and integration frameworks can easily and quickly be put together.

On the social front, ServiceNow has been working hard to develop a vibrant community of developers and users, hosting massive events like the yearly knowledge conference, managing an engaged virtual community, and providing free access to development resources, such as the **Personal Development Instance** and training material.

*Figure 1.3* below shows one of ServiceNow's yearly *Knowledge* events. Prior to the pandemic, these events had over 10,000 people attending every year, where developers, users, partners, and ServiceNow met to discuss the latest trends, challenges, and features. Over the years, these have only grown in presence and are now held in multiple regions due to their size and impact.

Refer to *Figure 1.3*: