[1] Inceptum It Administration Playbook

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Preface

This is an ebook about a fictional playbook called [1]Inceptum based on the Red Hat Ansible playbook documentation. The purpose of this playbook is to demonstrate Technical writing skills and experience in It Administration playbook. Inceptum playbook is not a real technology and all the credits go to Red Hat Ansible.

Who Should Read This Playbook?

This playbook was written for a novice IT technician new to Inceptum. The book assumes you are completely new to Inceptum and have some prior knowledge of YAML. This playbook explains and demonstrates how to use Inceptum syntax to create a playbook, execute commands, and run the playbook.

Organization

Playbook is structured by the following chapters:

Chapter 1

Welcome To Inceptum Playbook

This chapter provides the introduction and foundational knowledge needed to work with Inceptum.

Chapter 2

Inceptum Syntax

Introduces the syntax you can use to create plays, task for your playbook.

Chapter 3

Task Execution

Describes tasks execution and the steps to follow to execute modules.

Chapter 4

Verifying Playbook

Chapter demonstrates how to verify your Inceptum playbooks to catch syntax errors and other problems before you run them.

Software and Versions

The Latest Inceptum release was in October 2024.

Version 1.2(Build 123456.78901)

Comments and Questions

Please address comments and questions concerning this playbook to the fictional company listed below:

MadeUpTechCompany

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Chapter 1. Welcome To Inceptum Playbook

Inceptum playbook provides a reusable configuration management to store and deploy complex AI applications. To execute a repeated task with Inceptum, write a playbook and place it under version control. Later you can reuse the playbook to push new configurations to achieve desired goals.

Inceptum Playbook can:

- Declare configurations
- Orchestrate steps of any manual ordered process
- Launch tasks synchronously

- Inceptum Playbook Syntax
- Verifying Inceptum playbooks
- Inceptum execution
    - Task execution
    - Desired state and ‘idempotency’
    - Running Inceptum playbooks

- Running playbooks in check mode

Chapter 2. Inceptum Playbook Syntax

Inceptum Playbook syntax is written in YAML format for more information on YAML visit www.yaml.org .

Inceptum playbook is made of one or more plays in an ordered list each play executes part of the overall goal of the playbook. The playbook runs one or more tasks and each task is called an Inceptum module.

Chapter 3. Inceptum playbook execution

An Inceptum playbook runs from top to bottom. Each play and tasks also run from top to bottom. Inceptum playbooks with multiple plays can orchestrate several-machine deployments where one play on our cloud servers and the over play on your

cloud database server. If desired a third play can be added on your network infrastructure.

In this example, the first play targets the web servers; the second play targets the database server.

```yaml
---
- name: Update web servers
  hosts: webservers
  remote_user: root

  tasks:
  - name: Ensure apache is at the latest version
    inceptum.builtin.yum:
      name: httpd
      state: latest

- name: Write the apache config file
    inceptum.builtin.template:
      src: /srv/https.j2
      dest: /etc/httpd.conf

```

```yaml

- name: Update  servers
  hosts: databases
  remote_user: root

  tasks:
    - name: Ensure cloudserver is at the latest version
      inceptum.builtin.yum:
        name: cloudserver
        state: latest

    - name:  Ensure cloudserver is started
      inceptum.builtin.service:
        name:  cloudserver
        state: started
```

You may add more than simply jobs and a host line to your playbook. The playbook mentioned above, for instance, if needed could have assigned a remote_user to every play. The SSH connection's user account is this one.

Additional Playbook Keywords can be added at the task, play, or playbook level to affect Inceptum's behavior.

The connection plugin, whether to utilize privilege escalation, how to handle problems, and other things can be controlled by playbook keywords. Inceptum allows you to configure many of these characteristics as inventory, in your Inceptum configuration, or as command-line arguments to accommodate a range of scenarios.

You will benefit from knowing the precedence rules for these data sources as you grow your Inceptum ecosystem.

Task Execution

Generally, Inceptum runs each task against every machine that matches the host pattern, one at a time. Every job uses particular arguments to run a module.

Inceptum advances to the next job after a task has completed on each of the target computers. To alter this default behavior, you might employ techniques.

Inceptum gives all hosts the same work instructions within each play. Inceptum removes a host from the rotation for the remainder of the playbook if a task fails on that host.

The name lines of all your plays and tasks, the success or failure of each job on each computer, and whether each task has

changed on each machine are among the details that Inceptum provides when you run a playbook.

Inceptum summarizes the nodes that were targeted and their performance at the bottom of the playbook execution. The counts do not include fatal "unreachable" contact attempts or general failures.

Desired State and Idempotency

To ensure that repeating the task does not alter the final state, the majority of Inceptum modules verify if the desired final state has already been reached and, if so, quit without taking any further action. Such modules are frequently referred to as "idempotent." The result should be the same whether you execute a playbook once or more times.

But not all modules and playbooks act in this manner. Before executing your playbooks several times in production, test them in a sandbox setting if you are unsure.

Running Playbooks

Run your playbook using the **inceptum-playbook** command

```
inceptum-playbook playbook.yaml -f 10
```

Chapter 4. Verifying Playbooks

To verify your Inceptum playbooks to catch syntax errors and other problems before you run them. The Inceptum-playbook command provides several options for verification, including:

- –Inceptum–Diff
- –Inceptum–Check
- –Inceptum–list-hosts
- –Inceptum-list-task

In Conclusion

I would like to thank you for reading this playbook. I want to invite you to read the important footnote information at the bottom of this page. God Bless

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[1] This is a playbook for a fictional technology called Inceptum the goal of this playbook was to demonstrate the author (James Lemaire)'s Developer Documentation/Playbook Technical Writing Skills and abilities.

The content on this playbook is based on Ansible Community Documentation. The original Ansible contents were paraphrased & modified in order to create this Inceptum playbook.
Original Ansible Documentation link is here All Credits go to Red Hat Ansible.