

1. Record Nr.	UNINA9910798073703321
Autore	Shah Gourav
Titolo	Ansible playbook essentials : design automation blueprints using Ansible's playbooks to orchestrate and manage your multitier infrastructure / / Gourav Shah
Pubbl/distr/stampa	Birmingham, England : , : Packt Publishing, , 2015 ©2015
ISBN	1-78439-561-7
Edizione	[1st edition]
Descrizione fisica	1 online resource (168 p.)
Collana	Community Experience Distilled
Disciplina	006.76
Soggetti	Software configuration management Open source software
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; Acknowledgments; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Setting Up the Learning Environment; Chapter 1: Blueprinting Your Infrastructure; Getting introduced to Ansible; Plays; YAML - the playbook language; Our first playbook; Creating a host inventory; Patterns; Tasks; Modules; Running the playbook; Review questions; Summary; Chapter 2: Going Modular with Ansible Roles; Understanding roles; Naming roles; The directory layout for roles; Creating a site-wide playbook, nesting, and using include statements Creating the www playbookThe default and custom role paths; Parameterizing the roles; Creating a base role; Refactoring our code - creating a base role; Creating an Nginx role; Adding role dependencies; Managing files for Nginx; Automating events and actions with handlers; Adding pre-tasks and post-tasks to playbooks; Running playbooks with roles; Review questions; Summary; Chapter 3: Separating Code and Data - Variables, Facts, and Templates; Static content explosion; Separating code and data; Jinja2 templates; The template formation; Facts and variables; Automatic variables - facts User-defined variablesWhere to define a variable; How to define a variable; Templating the Nginx configurations; Adding another layer - the MySQL role; Creating the scaffolding for the roles with Ansible-

Galaxy; Adding metadata to the role; Using variables in tasks and handlers; Creating variables; Creating tasks; Using variables in playbooks; Applying a MySQL role to the DB servers; Variable precedence; The best practices for variable usage; Review questions; Summary; Chapter 4: Bringing In Your Code - Custom Commands and Scripts; The command modules; Using the raw module Using the command moduleUsing the shell module; Using the script module; Deploying a WordPress application - a hands-on approach; Installing WordPress; Controlling the idempotence of command modules; The registered variables; Extracting WordPress with a shell module; Configuring WordPress; Review questions; Summary; Chapter 5: Controlling Execution Flow - Conditionals; The conditional control structure; The when statements; Fact-based selection; Refactoring the MySQL role; Multilevel variable dictionaries; Merging hashes; Configuring the MySQL server selectively Conditional control structure in Jinja2 templatesUpdating the MySQL template; Running a task only once; Executing roles conditionally; Review questions; Summary; Chapter 6: Iterative Control Structures - Loops; The omnipotent with statement; Configuring WordPress requisites; The PHP5-FPM role; Defining an array; Looping an array; Creating MySQL databases and user accounts; Creating a hash; Nested hashes; Iterating a hash; Creating Nginx virtual hosts; Defining the PHP site information; Review questions; Summary; Chapter 7: Node Discovery and Clustering; Node discovery with magic variables Creating the load balancer role

Sommario/riassunto

If you are a systems or automation engineer who intends to automate common infrastructure tasks, deploy applications, and use orchestration to configure systems in a coordinated manner, then this book is for you. Some understanding of the Linux/Unix command-line interface is expected.

2. Record Nr.	UNINA9910484702303321
Autore	Bozek Pavol
Titolo	Diagnostics of Mechatronic Systems / / by Pavol Božek, Yury Nikitin, Tibor Krenický
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-67055-4
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (79 pages) : illustrations
Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 345
Disciplina	621 621.3
Soggetti	Mechatronics Artificial intelligence Dynamics Nonlinear theories Artificial Intelligence Applied Dynamical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	The basics characteristics of elements reliability -- Methods, models, algorithms for diagnostics of mechatronic systems -- Model systems for diagnosing of mechatronic objects -- Appendix.
Sommario/riassunto	This book provides novel approach to the diagnosis of complex technical systems that are widely used in various kinds of transportation, energy, metallurgy, metalworking, fuels, mining, chemical, paper industries, etc. Effective diagnostic systems are necessary for the early detection of errors in mechatronic systems, for the organization of maintenance and for the assessment of the performed service quality. Unfortunately, the practical use of AI in the diagnosis of mechatronic systems is still quite limited and the inability to build effective mechatronic systems leads to significant economic losses and dangers. The main aim of this book is to contribute to knowledge within the topic of diagnostics of mechatronic systems by the analysis of the elements reliability characteristics, using methods, models and algorithms for diagnostics and by studying examples of

model diagnostic systems using AI methods based on neural networks, fuzzy inference systems and genetic algorithms. .
