Ta	In	
Sources	Best Practices	Practice Summary /Extracts  1. Ensure all infrastructure specifications are clearly coded within configuration files, establishing them as
S22		the primary source of truth.
S09		Enable seamless infrastructure deployment by relying solely on the information present in the
S08 S14		configuration files, avoiding the need for manual adjustments whenever possible.
S69  S70	Automation	<ol><li>Emphasize the importance of codifying all aspects of our infrastructure to promote reproducibility and minimize human error risks associated with manual configuration.</li></ol>
S14		
S29  S22		
S4  S6		
S7		
S13  S61		
S19 S23		
S26		
S27  S28		Utilize a version-controlled database change management tool for configuration files.     Enable an audit trail, collaboration, and testing of IaC code through code reviews.
S32  S33		- Implement code branching and merging best practices for efficient management of IaC updates Track all infrastructure changes and enable easy rollback if needed.
S8		- Require infrastructure modifications to go through Git repository changes and PR reviews.
S69  S70	Version Control	- Maintain code, documentation, test cases, and scripts in a central repository for consistency.     - Easily define and clone configurations to ensure current and consistent documentation.
		To simplify management, divide the infrastructure into separate modules or stacks and automate their combination during deployment.
		Set access controls to regulate who can modify specific parts of the infrastructure code, accommodating
		different teams and individuals.  Enforce configuration discovery to maintain stability and control the number of configuration changes.
		Adopt a microservices-oriented approach, aligning infrastructure configurations with individual microservices' needs.
S22		Promote modularization to reduce complexity and eliminate duplication of key logic.
\$18 \$8 \$28	Modularity	Design IaC with flexible, reusable blocks that can be assembled on-demand for quicker adaptation to changing requirements.
		The source code itself serves as comprehensive documentation, eliminating the necessity for extensive
		additional instructions for users.  laC code acts as self-documentation, reducing discrepancies between infrastructure and written
S22 S7		guidance.  Written documentation is not a priority since the code continually reflects the current infrastructure state,
S20		providing up-to-date documentation.
S28 S9	Document the Code	While diagrams and setup instructions aid knowledge sharing, the focus remains on the code as the most accurate and reliable documentation source.
		Utilizing a unified repository for the entire stack.
		Aligning application releases with infrastructure or configuration modifications for synchronized deployments.
S32	Distributed Repository	Facilitating the provision of temporary ad-hoc infrastructure during the deployment process.  Allowing seamless integration of application releases with essential infrastructure configuration changes.
	. ,	
  S28	Gradual Configuration	Rather than replicating default package states, concentrate on specifying incremental modifications in your code.
		Opt for a suitable data storage (like a database) to house configuration data, especially when handling
S28  S69		numerous items. Avoid hardcoding values in the IaC to ensure easier adaptability and maintenance.
\$70   \$71	Configuration Data Source	Make the IaC parameterized to enable dynamic configuration based on specific requirements.  Use absolute paths instead of relative paths in the IaC for precise and dependable file references.
		Antipattern:Creating server images manually without proper documentation or understanding of
		modifications.  Pattern: Embracing reproducible images based on established operating system distributions (*.iso).
S28		Leveraging base provider images to build upon the infrastructure. Utilizing Packer for generating images compatible with multiple virtualization software and cloud
S69 S70	Reproducible Image	providers. Utilizing Docker to build and distribute containers as portable and shareable images.
370	Reproducible image	Software updates and fixes involve deploying new servers from modified base images, while removing
		the old servers. Advantages:
224		Immutable infrastructure simplifies maintenance by eliminating patching and in-place upgrades, reducing
S21 S31		corner cases and inconsistencies in server deployments.  Configuration drift and one-off instances are avoided, leading to a more consistent infrastructure.
S22  S10	Immutable Infrastructure	Security is improved as administrative ports like SSH and RDP are not kept open on servers.  The risk of unexpected impacts due to undocumented changes in the stack's configuration is minimized.
		Develop templates catering to various infrastructure levels like staging and production, enabling the
		creation of multiple instances from the same template. Construct detailed templates offering complete working environments with scalability, isolation, and
\$19		Construct detailed templates offering complete working environments with scalability, isolation, and adaptability features.
S19 S28	Environment Template	Construct detailed templates offering complete working environments with scalability, isolation, and adaptability features.  Ensure clear and specific specifications for infrastructure needs, including network bandwidth and storage I/O operations per second, to avoid any omissions.
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\$28 \$28 \$69 \$70 \$28 \$28 \$28 \$7 \$60	Package Application for Deployment  Infrastructure Query Language  Secret Isolation  Encrypted Secret  Collaborate	Construct detailed templates offering complete working environments with scalability, isolation, and adaptability features.  Ensure clear and specific specifications for infrastructure needs, including network bandwidth and storage I/O operations per second, to avoid any omissions.  Prepare your application in the optimal format for hassle-free deployment.  Share the packaged application through an artifact repository, such as Maven, RubyGems, Yum, or Apt. The artifact repository serves as a buffer, providing isolation between pipelines and simplifying integration.  This approach helps reduce the complexity of code needed in later stages of configuration management.  Use a language or API to query real-time or latest available reports on your infrastructure state.  Collect data from IaC systems to keep track of the current status of the infrastructure.  Employ Declarative Language and tools such as Puppet, Terraform, or Pulumi for infrastructure management.  Be mindful of potential reproducibility problems caused by the current configuration and machine states.  Secrets should be injected on the very last stage of "deploying" your code.  Secrets should not be in code  all stored secrets must be encrypted  Decryption password is shared through a different channel.  Enable collaboration around infrastructure configuration and provisioning, most notably between dev and ops. Do not keep your updates only to yourself. Share them back. Discourage a private fork of a community module code reviews are a must for those embracing the notion of treating their infrastructure as code.  Pattern: Metrics as Code Metrics that your application provides evolve with your application. New components, new endpoints, new KPIs  Keep monitoring configuration close to the code! Or make it auto discoverable and visible!  Configuring and collecting metrics Monitoring software has configuration files and/or an API that can be
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Ansible Best Practices		
Source		Practice Summary
Project		
S46 S51		
S57	Use the standard Ansible project structure	
S46	Use semantic versioning	
S48	Use native YAML syntax and conventions	
S55		
S52 S54		
S50	Use native YAML syntax and conventions	
		Decide on a uniform quoting style, either double quotes or single quotes, and use it consistently throughout the code.
S50 S57	Minimal Consistent quoting	Keep in mind that certain situations, like using variables or octal numbers, may require explicit quoting to ensure proper functionality.
S55 S53	William of Considerit Quoting	As you gain experience with Ansible, more tasks can be automated.  Eventually, sensitive information like SSL configurations and database passwords will need automation.  Ansible offers the Vault module for securely storing and automating such data without risks.  Vault allows encryption of important information for safe storage in version control systems or other environments.  Storing passwords or certificates in plain text within repositories is not recommended, but ansible-vault enables encryption of sensitive data.  The playbook has examples of both encrypted and commented-out plain text files.  Decrypting files requires the vault password, which must be stored in the root directory but not committed to git repositories.  For keeping confidential data secure within playbooks and roles, use ansible-vault, which is well-
S51	Vaults for Storing Secrets	documented with helpful examples.
Playbook		The application is the later of an arrange in an arrange and a later the
S47	Use tags only for speeding and debugging	The problem is that tagging every task in main.yml would be cumbersome, error prone, and clutter the code play execution unnecessarily.
Role		
S50 S69	Parameterized roles	List required parameters before optional parameters
S70	Parametrizing scripts	Roles in Ansible provide a way to bundle related tasks, variables, and dependencies together in a single,
\$46 \$49	Use roles to group related tasks	self-contained, and portable unit.  Leveraging roles is an effective method to fully utilize Ansible's modular capabilities.
S50		When documenting Ansible roles, use the template provided by ansible-galaxy init. Include a description of the role's purpose and function, along with usage examples. List and explain the variables used in the role, preferably in the form of a table with variable name, default value, and explanation.  Specify the dependencies required for the role to work correctly.
S51	Use role documentation templates	Mention the role's author and provide information about the role's license.
S50		In a CI model, ensure unit testing is performed for each role.
S54 S57		Containers are a convenient choice for testing roles across multiple distributions.  For low-level actions, such as bootloader setting and firewall configurations, use virtual machines for
S69	Test Deleg with an emulated an irrement	testing.
S71 S49	Test Roles with an emulated environment	Conduct thorough and consistent testing on various platforms to validate the role's functionality.
S55 S54		
S51	Use Ansible Galaxy to find and share Roles	
Task		
S48 S50		While you can leave out the 'name' field for tasks, it's advised to include a description of the task's purpose.
S55 S52		The 'name' field is visible during playbook execution.  Always name plays and tasks with descriptive and human-readable information to improve
S51		communication with users when they run the playbook.
S57 S46	Name tasks	Task names should be clear and specific, enabling easy understanding for end-users and other team members executing the playbook.
		When naming tasks, aim to be expressive and informative by incorporating all relevant details. Improve task names with the use of variables to provide additional context and clarity. Including variables to identify the current host the task is executing against adds descriptive value to the
S51	Use variables in task names	task name.  One reason is technical: If file ownership isn't explicitly declared, it defaults to the user executing Ansible,
		which might not always be desirable. Being explicit helps avoid this issue.
S51	Specify module defaults in tasks	The second reason is organizational: When others use your playbook or role, they might not be aware of module defaults or your intentions. Being explicit in tasks reduces confusion and ensures a clear understanding of your playbook's goals
		The 'state' parameter is optional to a lot of modules. Whether 'state=present' or 'state=absent', it's always best to leave that parameter in your playbooks to make it clear, especially as some modules support additional states.
S54 S46	Always mention module state	Define the state parameter. In some modules this could be: present, latest, absent, etc.
		The ignore_errors setting swallows all errors, even ones you may not be expecting, and you risk leaving
S57	Do not ignore failed Tasks	your host in a broken or unstable state.  Applying conditional statements like "when" in Ansible playbooks can affect idempotency. For instance, changing a boolean variable used to add a cronjob might not remove the cronjob as intended.
S57	Avoid skipping tasks	In more intricate situations, a service set to be disabled by default may persist until manually enabled by a developer.
	Trois stipping tusts	Verify that the service you started is actually running! Because you declared it in a playbook does not mean that it is working.
S54	Verify service state	You could do this in your playbooks by using "uri", "waitforconnection" or any other validation method
504	verily service state	The command failed, so I used the sudo command and it worked fine.  I'm now doing that everywhere because it's easier. It should be obvious to devops people, and hopefully also software developers, how every wrong this is. Just like you would not do that for manual commands,
		you also should not use become: yes globally for a whole playbook. Better only use it for tasks that actually need root rights. The become flag can be assigned to task blocks, avoiding repetition.
S57 Module	Use sudo only where necessary	Another downside of "sudo everywhere" is that you have to take care of owner/group membership of directories and files you create, instead of defaulting to creating files owned by the connecting user.
S49	Do not use non-idempotent modules	Shell commands are less likely to be idempotent.

		Shall commands are less likely to be idemoster.
		Shell commands are less likely to be idempotent.
		Shell commands will always run and will always report "changed," unless you're diligent about using changed when .
		Many modules are designed to be operating system agnostic, which also helps you
		write more reusable code.  Run commands are what we collectively call the command, shell, raw and script modules that enable users to do
		command line operations in different ways. They're a great catch all mechanism for getting things done, but they should be used sparingly and as a last resort. The reasons are many and varied.
		The overuse of run commands is often a symptom of TL;DR in Ansible and common amongst those just becoming familiar with Ansible for automating their work.
		Ansible and sets things up for problems down the road.  The most important thing to consider is that these run commands have little logic to them and no concept of desired
		state like a typical Ansible module.
		That shell that succeeded the first time you ran your play may fail the next time when something already exists.
S49		That's unless you ignore_errors on that task. But how do you catch a real error like wrong permissions?  Now you have to register the result of that first command and follow it with another task that implements
S48 S48 S55 S51		conditional logic to check if an error occurred in the first and handle it.  This one should be obvious, but for people that come from a classic admin-background and are new to Ansible it
351		Ariside II
Configuration Data		
Configuration Data S49		Use templates
S55	Configuration file template	Try to avoid using hard coded variables and use Templates
Source	Bad Practice	Practice Summary
		Configuration Data has a different lifecycle. It's more dynamic.  Example 1: use your provisioning tool to define organization users.
S28	Data as code	Example 2: manifest that lists all your 500 servers
S28	Fancy configuration file copying	To configure package X, you keep all configuration files it needs within your "code".  You use provisioning tool abstractions to copy every single file onto the target system
		Version Control is essential for managing and collaborating on code effectively.  Inexperience with new tools may necessitate more Code Reviews to ensure code quality.
		Static Code Analysis tools can be applied to IaC products for quality assessment.  While Unit Testing may not be ideal for IaC, Integration Testing is significant for verifying system
S28	Not treating IaC as Code	behavior.  Incorporating the mentioned techniques provides optimal QA results for any code.
		After a machine is created using an IaC workflow, it should not undergo manual interventions or external
		updates.
		All maintenance should be automated, aligned with the IaC process, and compliant with established standards.
S31		Making manual or external updates, including security patching, can lead to configuration drifting, which
S6	Non reproducible environments	may eventually cause significant non-compliance or service failures.
	Non reproducible environments	may eventually cause significant non-compliance or service failures.
Ansible Bad Practices Source	Non reproducible environments	Practice Summary
Ansible Bad Practices	Non reproducible environments  Overuse of comments	
Ansible Bad Practices Source		Practice Summary  Overuse of comments Ansible is declarative for a reason. Your code should document itself. Tasks
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