

SPARK 2 WORKBOOK ANSWER

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Spark 2 Workbook Answer: Common Questions and Solutions

1. Question: How do I create a DataFrame from a local file? **Answer:** Use the `spark.read.csv()` function, specifying the file path and schema.

2. Question: How do I apply a filter to a DataFrame? **Answer:** Use the `filter()` function with a condition to select the desired rows.

3. Question: How do I group data in a DataFrame? **Answer:** Use the `groupBy()` function to aggregate data based on one or more columns.

4. Question: How do I join two DataFrames? **Answer:** Use the `join()` function and specify the join condition based on common columns.

5. Question: How do I write a DataFrame to a file? **Answer:** Use the `write.csv()` function to save the DataFrame to a local file in CSV format.

Twice's "Heart Shaker" Piano Tutorial: Questions and Answers

1. When will the "Heart Shaker" piano tutorial be available?

The "Heart Shaker" piano tutorial is currently in the works and is expected to be released soon. Stay tuned for more updates.

2. Where will I be able to find the tutorial?

The tutorial will be posted on YouTube and other popular video platforms. We will also provide a link to the tutorial on our website.

3. Will there be sheet music for "Heart Shaker"?

Yes, there will be sheet music available for "Heart Shaker". We will provide a link to the sheet music on our website.

4. Will the tutorial include synthesis?

Yes, the tutorial will include synthesis. This will allow you to see the notes on the piano as they are being played.

5. What level of piano playing is required for the tutorial?

The tutorial is designed for beginner to intermediate piano players. However, even advanced piano players may find the tutorial helpful.

Can you use Ansible and Terraform together? In the worlds of infrastructure as code (IaC) and configuration management, Terraform and Ansible have emerged as two key players. Both of these tools are powerful on their own, but you can use them together to achieve end-to-end elevated workflows.

Can you use Terraform with OpenShift? Terraform offers you an effective way to manage both compute for your Openshift cluster and Openshift resources.

Can you use Terraform with Kubernetes? With Terraform infrastructure as code, you can provision Kubernetes clusters, surrounding services, and application resources with a single workflow.

Can you use Ansible with Kubernetes? You can also use Ansible to manage updates to your Kubernetes cluster nodes, such as updating the version of your kubelet, kubeadm, kubectl, containerd, networking, docker or any security tools.

When should I not use Terraform?

What is the best IDE for Terraform and Ansible?

Should I use OpenShift or Kubernetes? Kubernetes or OpenShift: The Verdict While Kubernetes helps automate application deployment, scaling, and operations, OpenShift is the container platform that works with Kubernetes to help applications run more efficiently.

Why use Terraform over Ansible? State Management. Terraform maintains state files to track infrastructure configuration changes and lifecycle, providing a clear overview of infrastructure components and their attributes. In contrast, Ansible lacks native state management as it focuses on configuration management and automatic execution of changes.

Can you run Kubernetes on OpenShift? Yes, you can run Kubernetes workloads on OpenShift. OpenShift is built on top of Kubernetes and is fully compatible with Kubernetes APIs and resources. This means that Kubernetes workloads, configurations, and manifests can be deployed and managed on an OpenShift cluster without any modifications.

What is the downside to using Terraform? Disadvantages of Terraform: Learning Curve: Terraform has a learning curve, especially for beginners or those new to infrastructure as code. Understanding the declarative syntax, how to write modules, and managing state files can be challenging initially.

Should I learn Kubernetes or Terraform first? In terms of ease of use and getting started, Terraform is considered easier for beginners compared to Kubernetes. Setup and installation are straightforward, and HCL is intuitive to learn and work with. You can easily manage cloud infrastructure in different environments with a unified workflow.

Which is better Kubernetes or Terraform? Terraform focuses on network provisioning, whereas Kubernetes focuses on container orchestration. Terraform is in charge of constructing and managing infrastructure components like virtual machines, networks, and databases, whereas Kubernetes controls packaged application installation and flexibility.

Which is better Ansible or Kubernetes? Ansible is an excellent useful tool for front-end developers, particularly in situations where some programming is required. Kubernetes is best suited to developing larger apps. Based on the properties of both tools, it's like comparing apples to oranges.

Can we replace Ansible with Terraform? Although Terraform and Ansible can perform configuration management tasks, the latter does a far better job. They also

both work with cloud APIs and are both open-source. Developers can also use Terraform and Ansible simultaneously, so the two tools complement each other rather than replace each other.

What is Ansible not good for? State Management Ansible does not maintain state information about infrastructure. Each task in Ansible playbooks is idempotent, meaning it can be run multiple times without causing unintended side effects. However, Ansible itself does not track or manage the state of infrastructure resources.

Is there anything better than Terraform? There are several Terraform alternatives. The following is a list of 10 IT automation software solution alternatives to Terraform, including Ansible, Attune, Kubernetes, Jenkins, Chef, Puppet, BMC Control M, SaltStack, Vagrant, and Pulumi.

Why is Terraform so complicated? Challenges such as managing multiple environments with workspaces, maintaining module versions and backend configurations, and managing resource lifecycles often make Terraform code hard to read and prone to errors.

Is Terraform still popular? This usage grew to using more managed, serverless or containerized solutions and more centered around “full” managed services such as Kubernetes. Now where does terraform fit into all of this? Well, it is basically the most common and recognized solution to setup infrastructures across most cloud providers.

Why choose Ansible over Terraform? Terraform sets up and manages your IT infrastructure, using an infrastructure-as-code approach. Ansible, on the other hand, focuses on automating IT tasks like provisioning and deployment. In short: Use Terraform for infrastructure setup and Ansible for configuration.

Is Terraform not open source anymore? Is there any solution ? In August 2023, HashiCorp, the primary contributor to Terraform, adopts the BSL license for all its future product versions. While it doesn't pose a problem for most users, this license prohibits the use of the software for commercial purposes.

Is pulumi better than Terraform? Pulumi supports multiple languages and this is by far the single most important difference. If, for any reason, you have to define your infrastructure in Python/Go/Java or other major programming languages, between Terraform and Pulumi, there is no competition.

When should we not use Kubernetes? While it is possible to have a monolithic application in one container, the container would require multiple processes. This isn't considered good practice — one container should only house one process. If you are not containerized, then Kubernetes is not for you ... yet.

Is there anything better than Kubernetes? Alternatives include Docker Swarm, Nomad by HashiCorp, and Apache Mesos, each with its own set of features and trade-offs. Docker Swarm, for instance, is simpler to set up and administer than Kubernetes, making it ideal for smaller deployments or teams with less sophisticated requirements.

Is OpenShift better than Docker? Both Docker and OpenShift are powerful tools that can help developers and IT teams run and manage containerized applications. Docker provides a simple and portable containerization platform that can run on any infrastructure, while OpenShift provides additional features and functionality built on top of Kubernetes.

Why use Terraform with Kubernetes? Kubernetes and Terraform synergies Terraform's approach simplifies and standardizes the complex task of provisioning Kubernetes clusters. Terraform, in this case, enables a unified flow for provisioning Kubernetes clusters across providers with a declarative approach that is preferred over command line utilities.

Why use Terraform instead of Docker? Terraform operates at a higher level of abstraction. It deals with infrastructure resources as building blocks, allowing you to define things like virtual machines, databases, and load balancers. In contrast, Docker works at a lower level.

Is Ansible still relevant? In terms of popularity for individual configuration management tools, Ansible is now ahead of the pack, with a survey from TechRepublic showing that Ansible had the most widespread usage across survey

respondents, at 41%, followed by Chef and Puppet in a tie at 31%, with Terraform at 31%, and Saltstack at 18%.

Why use OpenShift instead of Kubernetes? OpenShift has several built-in security features, while Kubernetes relies on the underlying infrastructure and additional tools for security. Additionally, OpenShift runs containers as a non-root user by default and provides additional security policies out of the box.

Who should use OpenShift? It is ideal for developers who want a fast, easy to use, and automated containerization to go for Red Hat's OpenShift, while developers can adopt Kubernetes if they want a more sophisticated, fully controllable environment. Again, the decision is all yours.

Why do we use Kubernetes instead of Docker? Docker containers are one process per container. Kubernetes is particularly useful for DevOps teams since it offers service discovery, load balancing within the cluster, automated rollouts and rollbacks, self-healing of containers that fail, and configuration management.

Should I use Ansible or Terraform? But when you stack Terraform vs. Ansible head to head, Terraform is often preferred for infrastructure provisioning in cloud environments, while Ansible is celebrated for its configuration management capabilities and as a cross-domain automation solution.

What is the Terraform controversy? The SEC accused Terraform and Kwon of deceiving investors about the stability of TerraUSD, which he designed to maintain a constant \$1 price, and falsely claiming that Terraform's blockchain was used in a popular Korean mobile payment app.

Why Terraform, why not others? Can Terraform manage resources that are not supported by other tools? Yes, Terraform's extensive provider ecosystem allows it to manage resources that may not be directly supported by other tools like Chef, Ansible, Puppet, or CloudFormation.

Should I use Ansible or Terraform? But when you stack Terraform vs. Ansible head to head, Terraform is often preferred for infrastructure provisioning in cloud environments, while Ansible is celebrated for its configuration management capabilities and as a cross-domain automation solution.

What is Ansible compatible with? The community distribution of Ansible contains a suite of powerful command line tools supported on most operating systems with Python installed. This includes Red Hat Enterprise Linux, Debian, Ubuntu, MacOS, FreeBSD, Microsoft Windows, and more.

Can YAML be used in Terraform? Terraform has `yamlencode` and `yamldecode` functions available, which allow you to convert values between Terraform and YAML format. These functions are the main focus of this article. Alternatively, Terraform does support JSON as an alternative input format, and YAML files can be converted to JSON.

What happens if 2 people are working on the same infrastructure with Terraform? Terraform handles and prevents conflicts between multiple users working on the same infrastructure by using a state file to track provisioned resources and their current state.

What is a disadvantage of Terraform? Lack of Real-Time Updates: Terraform does not provide real-time monitoring or continuous deployment features. You need to run Terraform commands explicitly to apply changes, which might be different from the behavior of some other IaC tools.

Should I learn Kubernetes or Terraform? In conclusion, Terraform and Kubernetes are powerful tools in the DevOps arsenal, each serving distinct purposes. While Terraform excels at automating infrastructure provisioning across various cloud platforms, Kubernetes shines at managing containerized applications and orchestrating their deployment and scaling.

What is Ansible not good for? State Management Ansible does not maintain state information about infrastructure. Each task in Ansible playbooks is idempotent, meaning it can be run multiple times without causing unintended side effects. However, Ansible itself does not track or manage the state of infrastructure resources.

Can we use Ansible and terraform together? While Terraform automates infrastructure building, Ansible manages the configuration. You can also use Terraform for configuration management, but it isn't Terraform's primary goal; hence,

it is less effective than Ansible. That's why Terraform and Ansible work so well together.

Can Ansible be used on containers? Ansible can monitor containers and non-container at the same time, which is essential because containerized applications often need to “talk” with noncontainerized applications.

Do people still use Ansible? In terms of popularity for individual configuration management tools, Ansible is now ahead of the pack, with a survey from TechRepublic showing that Ansible had the most widespread usage across survey respondents, at 41%, followed by Chef and Puppet in a tie at 31%, with Terraform at 31%, and Saltstack at 18%.

Is Terraform used only in AWS? Terraform is platform agnostic. You can use it with any cloud services provider. You can configure, test, and deploy infrastructure across AWS and many other cloud providers. If your organization uses multiple cloud providers, Terraform can be a single, unified, consistent solution to manage cloud infrastructure.

Can Terraform be written in JSON? Most Terraform configurations are written in the native Terraform language syntax, which is designed to be relatively easy for humans to read and update. Terraform also supports an alternative syntax that is JSON-compatible.

Does Ansible use YAML or JSON? This page provides a basic overview of correct YAML syntax, which is how Ansible playbooks (our configuration management language) are expressed. We use YAML because it is easier for humans to read and write than other common data formats like XML or JSON.

What is the golden rule of Terraform? The golden rule of Terraform is pretty simple: "If running terraform apply tells you there's 'no changes', that's perfect. It means your code and what's actually set up match perfectly." This means your setup is stable and everything is working as it should.

Why is Terraform so complicated? Challenges such as managing multiple environments with workspaces, maintaining module versions and backend configurations, and managing resource lifecycles often make Terraform code hard to

read and prone to errors.

Which command destroys Terraform managed infrastructure? The terraform destroy command is a convenient way to destroy all remote objects managed by a particular Terraform configuration.

The French in Singapore: An Illustrated History from 1819 to Today

1. When did the French first arrive in Singapore?

The French first arrived in Singapore in 1819, when a group of French missionaries led by Father Jean-Marie Dufresse arrived to establish a Catholic mission.

2. What role did the French play in the early development of Singapore?

The French missionaries played an important role in the early development of Singapore by establishing schools, hospitals, and orphanages. They also helped to promote Catholicism in the region.

3. What is the significance of the French Quarter in Singapore?

The French Quarter in Singapore is a historic district that was once home to a large French community. The area is now home to several restaurants, cafes, and shops, and it is a popular tourist destination.

4. How have the French contributed to Singapore's cultural landscape?

The French have made significant contributions to Singapore's cultural landscape. They have introduced French cuisine, fashion, and art to the country. They have also played a role in the development of Singapore's education system.

5. What is the current state of French-Singaporean relations?

French-Singaporean relations are strong and growing. The two countries cooperate on a wide range of issues, including trade, defense, and education. Singapore is also a popular destination for French tourists.

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