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platform itself, the manual configuration of infrastructure hardware such as networking switches becomes unnecessary.Cloud environments allow customers to service themselves based on SDN, SDS, and the aforementioned APIs.Cloud environments come with a higher level of automation from both the customers' and the provider's point of view. The main motivation is the need:For more flexibility in the own IT setup.For a higher level of automation.For competitive innovation.For lower times-to-market when creating new products and applications.For the migration of legacy application and workloads.To identify disposable components in the own environment.To accelerate the own growth and performance.To reduce IT costs (CAPEX/OPEX).All these factors play a vibrant role in the decision to deliver services in a cloud-native manner and move more applications to the cloud.Modern IT companies have developed a way of working that allows them to be agile and quick when developing new features and yet protect existing processes and systems. It allows for the creation of large-scale storage environments that are an ideal fit when looking for storage in the cloud. Logstash collects the log files from the target systems and sends them to ElasticSearch. This can take several weeks.Conventional setups come with high investment costs to customers for both the development of an actual software solution and the acquisition of hardware (including infrastructure hardware such as network switches or load-balancers).Conventional setups tend to see service providers locking customers into a contract for several years, limiting the flexibility of the customer.Conventional setups have a low degree of automation. Instead, cloud VMs are expected to use DHCP to acquire their local IP address at boot time. It is not available for usage to the public.Public Cloud: A public cloud environment is run by a company to offer compute, storage, and network resources to the wide public, often giving users the opportunity to register an account themselves and start using the cloud services immediately.Hybrid Cloud: When following a hybrid cloud approach, customers use services offered by public cloud environments (such as Amazon AWS or Microsoft Azure) and services offered by an own private cloud.The cloud setup described in this guide can serve as a public cloud or a private cloud. If solutions such as Ceph are in use, the storage layer only represents the software required for SDN as the hardware is already part of the hardware layer.The control layer: This layer includes all logical components that belong to the cloud solution. As explained in the storage chapter, the local storage of virtual machines in clouds is called ephemeral storage. The upstream link is used to accommodate the environment's traffic needs and should include a buffer to guarantee the option to upgrade the link at a later point in time.API services should run behind a load balancer to accommodate for high amounts of incoming requests. It is the ideal start for a Proof of Concept (PoC) setup or a test environment. Is the staff experienced in operating an OpenStack cloud environment in particular? These components make operating the cloud and using its features a convenient task.OpenStack supports multi-tenant setups. Implementations with mixtures of local and shared ephemeral storage are, while technically possible, a complex matter and need thorough consideration. In addition, the function of the failed service must be taken over by another failure domain.It is important that every failure domain is isolated with regard to infrastructure like power, networking, and cooling. At any point in time, a new customer can show up and request to get a higher amount of resources. SUSE LLC, its affiliates, the authors, and the translators may not be held liable for possible errors or the consequences thereof.Below we draw your attention to the license under which the articles are published.9 GNU Free Documentation License #Copyright © 2000, 2001, 2002 Free Software Foundation, Inc. This document formally defines the type and amount of hardware required for the cloud environment. From small local installations to large public scale-out environments and complex scenarios, SUSE consultants, support engineers and developers are prepared to help customers.In addition, SUSE provides several Linux-based products that customers can use to bootstrap their cloud project quickly, efficiently and reliably.7.1 SUSE Linux Enterprise Server #SUSE Linux Enterprise Server is the Linux distribution tailored specifically to the requirements of enterprise workloads. SUSE cannot verify that actions described in these documents do what is claimed or whether actions described have unintended consequences. The two most notables categories of issues are:Loss of control: In such a scenario, existing services in the cloud continue to work as before, but it is impossible to control them via the APIs provided by the cloud. Ceph clients are initially configured with the addresses of at least one working MON server in the Ceph setup. To identify the ideal solution for a setup's storage needs, it is useful to define the basic features the storage solution of the setup should have.4.3.1 Required Storage Types #Clouds require two different kinds of storage types: One is for data payload resulting from virtual machines, the other is related to the storage of asset data such as video files and images.When talking about storing data in clouds, terms such as persistent and ephemeral are often used. Over the last few years, OpenStack has become the number one open source solution to run public clouds all over the world.Some of the key features of the OpenStack cloud computing software are as follows:OpenStack has a well-proven track record of being the perfect solution for large public cloud environments. This allows users to leverage the full power of the API principle.OpenStack is open source software licensed under the terms of the Apache License. NASA controllers had found out that many of their scientists were conducting experiments for which they ordered hardware. How does the physical layout of the network look like? Lastly, a typical OpenStack architecture is shown to serve as a valid example.In general, cloud platforms have a complex design and still allow for large scalability. Successful companies deliver both items in an optimized way. All currently available cloud solutions support such a functionality. The common code base guarantees that the product and its look-and-feel is consistent. Redundancy is also hard to achieve because it would double the high costs of SAN devices.Lack of scalability: SAN storages are limited in the overall amount of hard disks that fit in. Some commercial SDN implementations can also be combined with SUSE OpenStack Cloud.For the purpose of this document is it assumed that Open vSwitch-based SDN is used.Like all OpenStack components, neutron has a decentralized design. To better understand this process, the next paragraphs give an overview of how Ceph works. This example assumes that SUSE Enterprise Storage is used for this purpose. Amazon Simple Storage Service (Amazon S3) is the most common service of its kind. In contrast, users must have the ability to determine the topology of their virtual networks completely at their own discretion. Virtual machines running in the cloud by different customers are logically split from this network and do not have direct access to it.Customer traffic: This traffic type denotes the payload traffic produced by paying customers in the cloud. Running such cloud-native workloads on a SUSE OpenStack Cloud platform means the following for the service:Stateless: The service stores no local data and can be restarted at any time. As the overall number of requests to the databases is large, like RabbitMQ, MariaDB can be rolled out in a highly available scale-out manner in cloud environments. Thanks to dark fibre connections and other modern technologies, it is even possible to create new datacenter sites and connect those to existing sites to accommodate for seamless scale-out processes.Not all scalability approaches work for all environments. Redundancy is created by adding multiple failure domains to the design. The following paragraphs provide an overview of the components of an OpenStack cloud and you a quick introduction into OpenStack and how OpenStack can help you to build a scalable compute and storage platform.2.3.1 The OpenStack History #The OpenStack project originally started as a joint venture between NASA and the American hosting provider, Rackspace. Using such APIs, services can be implemented in clouds.Cloud environments decouple hardware and software and use Software Defined Networking (SDN) and Software Defined Storage (SDS). OSDs can appear in almost any scheme in a platform. They may not have the knowledge required to install an operating system in a newly created virtual machine (VM) in the cloud. The ability to scale-out requires the software in use to support this operational mode. These layers are:The hardware layer: This layer contains all standard rack servers in an environment, this means devices that are not specific network devices or other devices such as storage appliances.The network layer: This layer contains all devices responsible for providing physical network connectivity inside the setup and to the outside. The static assignment of external IPs to individual VMs does not work in clouds. OpenStack also has a solution for storing objects and making them accessible via an HTTPs protocol named OpenStack swift. It is no longer recommended to pay for highly skilled engineers and architects to perform tasks that can be automated. Private clouds constructed for specific use cases face other requirements than large clouds made available to the public.A cloud takes the control reins in the focus of the SLA. ElasticSearch is the indexing and search engine that received log entries from systems. However, it can also be a quite convenient task that does not involve a lot of human intervention.In cloud environments, the entire lifecycle of physical machines must be automated as much as possible. It is fundamental to the deployment and management of all nodes and services as it hosts the required tools. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. In previous chapters, the sizing (number of servers), failure domains and clusters, networking functionality, and key aspects of the SUSE OpenStack Cloud and SUSE Enterprise Storage products have been discussed. All network elements and segments are shared amongst all customers in the setup, making it impossible to establish customer-specific setups and configurations on individual devices. This means in case of resource shortage, it is easy for the provider to extend the amount of available resources.Cloud environments are based on the principle of API services and the ability to issue requests for resources to said API services using a defined and well-known protocol such as ReST. Examples of transparent image formats include PNG, XCF and JPG. SUSE has excellent experts on all matters related to highly scalable environments. Only considerably high target node numbers justify a layer-3-based setup as explained. However, a lot of different definitions of scalability exist and the word is often used in different contexts. It should be noted that from the operational point of view, the same hardware class is used. It also means that, in case of emergencies, the ISP cannot debug their platform themselves, because they are dependent on the solution provider.4.3 Storage Requirements in Scale-Out Environments #Conventional storage approaches such as SANs or commercial scale-out solutions do not fit very well into the principle of scale and cloud setups. But what does scalability in cloud environments mean?2.1 Scalability in Clouds #Scalability is a word that most administrators are familiar with. OpenStack services have a stateless design and can be easily run in an active/active manner, distributed on several nodes. If the Document does not identify any Invariant Sections then there are none.The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. The most important layer is the physical layer representing the data plane. As VMs in the cloud are expected to be reproducible at any time by means of automation and orchestration, there is no point in storing the main system installation on a persistent storage volume.In contrast to that, persistent storage in clouds denominates the kind of storage that is maintained independently from virtual machines but can be attached to arbitrary VMs at any point in time. Thanks to SUSE's long-term experience with OpenStack technologies, it also comes with a generic configuration yet prepared for most use cases.SUSE OpenStack Cloud provides a Software-Defined Infrastructure-as-a-Service (IaaS) for your data center. This allows for enhanced performance.4.5.4 Ceph Front-Ends: Amazon S3 and OpenStack Swift #The third Ceph front-end refers to the other type of storage that clouds are expected to provide, which is object storage via a ReSTful protocol. Almost all OpenStack services use MariaDB to store their internal metadata in a persistent manner. That is because a scale-out environment can produce a much higher number of alerts a conventional monitoring solution can handle.5.3.1 The Need for Centralized Logging #Large environments must have a central solution for logging in place. If flexibility, in respect of the collection of metrics is relevant, Prometheus offers more options than Monasca, which is precisely tailored to the OpenStack use case.Whatever solution you choose, it is important to understand that large scale environments need monitoring, alerting and trending. This means multi-tenancy is not a design tenet of networking in conventional setups. Said solutions combine easy-to-use GUIs and management interfaces with a solid technical performance. As the networks used for this kind of traffic in clouds do not physically exist (in the form of a VLAN configuration on some network device), these networks are referred to as virtual. This can be crucial for a company. OpenStack is designed for seamless and almost unlimited growth of the cloud platform.

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