Report – Technical Specifications Servers DealerBest

Post Note Specifications – For Bacancy

Dear Bacancy Team,

We are writing to inform you about the procedure for coordinating and allocating the resources necessary for the management and operation of the servers destined for the new PapelCero program. From the Information Technology (IT) Department of our company, we will proceed to the formal and detailed communication of the assigned servers, as well as the specific resources that will be made available to them.

To ensure an effective and efficient implementation of the program, it is imperative that Bacancy provide us with a standard specification of the necessary technical resources. Such specification shall include, but is not limited to, processing capacity (CPU), RAM, storage space, network requirements, and any other hardware or software requirements deemed pertinent to the proper performance of the server in the context of PapelCero.

To facilitate the testing and tuning phases of the system, our department will provide you with a container (container server) designed to offer a controlled and highly customizable environment. This container server is designed so that you can perform the necessary tests and adjust the configuration parameters according to the specific needs of the PapelCero program.

For an effective customization of the server, we request that you communicate to us in detail all the configurations, settings and modifications that need to be implemented. This collaborative process will ensure that the server not only meets the technical requirements of the program, but also optimizes its performance and security.

We thank you in advance for your cooperation and look forward to your prompt response with the required specifications. Please do not hesitate to contact us for any additional questions or clarifications.

PROXMOX AX161 SERVERS REPORT – HETZNER X ALRESCATE SL

Total specifications of the servers for different projects It is focused on a CLUSTER with 4 servers AMD EPYC 7502PC Each server has:
32 real cores
256 GB RAM
4 x 1.92 TB NVME SSDBeing a total resource specification of:

128
CORES 1 TB RAM
30 TB NVME SSD DISK
20 TB for Backups

At all times, the container will be accessed from a WEBMIN environment or, failing that, from an SSH environment.

Dealerbest will only provide access to the server that will have been created for Bacancy's own management or uses, in this case for the New PapelCero project, but for this we need a standard with the necessary programs or operating systems to be able to give you independent access to the server and that you can work with it.

In this section, by default, we have a list of Linux distributions that are highly compatible, in case you want another Linux environment, we have the possibility to make all environments compatible, whether it is LINUX or WINDOWS

DATA CENTER

Regardless of which Hetzner product you choose - our high-performance web hosting, managed servers, cloud servers, dedicated root servers, or colocation services - you can rely on our state-of-the-art and environmentally-friendly infrastructure. Our three data center parks in Nuremberg, Germany; Falkenstein/Vogtland, Germany; and Helsinki, Finland; as well as our location in Ashburn, VA and Hillsboro, Oregon, USA, provide you with multi-redundant network connections to important Internet exchanges. So your internet presence will benefit from speedy loadtimes and top performance.

In this case, the DATA CENTER is hosted in Germany

HETZNER ONLINE IS CERTIFIED IN ACCORDANCE WITH DIN ISO/IEC 27001

The ISO 27001 certificate, an internationally recognized standard for information security, certifies that Hetzner Online GmbH and Hetzner Finland Oy have established and implemented an appropriate information security management system (ISMS). The scope of Hetzner's certified ISMS includes the infrastructure, operation and customer support of the data center parks in all three locations: Nuremberg, Falkenstein, and Helsinki. FOX Certification, a third party certification authority, performed the audits and officially awarded the cerificates.

The certificate confirms that Hetzner Online GmbH and Hetzner Finland Oy will uphold strict information security standards using its ISMS, including protecting the security, confidentiality, and integrity of its customers' data. Moreover Hetzner will provide safeguards, so only authenticated users will have access to their IT systems. Finally, the certificate means that Hetzner's ISMS will not remain at the status quo. The ISO 27001 certificate requires Hetzner to continually reassess and improve its information security methods. Regular audits will be performed to verify that Hetzner's ISMS remains current.

HETZNER ONLINE IS TAKING RESPONSIBILITY AND PROTECTING THE ENVIRONMENT

Taking responsibility for the environment means there is an increasing need to obtain energy from renewable sources. Hetzner Online uses energy from renewable sources to power the servers in its data centers.

ENERGY FROM HYDROPOWER:

In our German data center parks, we at Hetzner Online use hydropower. Our environmental partner is Energiedienst AG, a TÜV certified company that generates green energy from 100 percent carbon dioxide-free and environmentally-friendly hydropower.

ENERGY FROM WIND AND HYDROPOWER:

In Data Center Park Helsinki in Finland, Hetzner employs wind and hydropower for all of its energy uses. Our power provider is the Finnish energy company Oomi Oy.

ENERGY-EFFICIENT HARDWARE:

For years, the investment decisions made at Hetzner Online have been based on energy efficiency. Power usage of hardware and network components has been determined by in-house measurement and used as a fundamental criterion in the selection of components.

CHOOSE HETZNER WITH A CLEAR CONSCIENCE:

Hetzner Online wishes to use these measures to promote energy-efficient use of the Internet. We at Hetzner Online will cover most of the associated costs, so we can continue to keep prices low for our customers. Choose a cleaner future together with Hetzner Online!

SECURE YOUR WEBSITES FROM INTERNET ATTACKS

In a DDoS (distributed denial-of-service) attack, an attacker sends thousands of fake requests in an attempt to exceed the bandwidth, flood a server's resources, and overload the system. By doing this, valid requests can only be processed very slowly or not at all. A massive amount of compromised computers (botnets) are often used to create a gigantic amount of data traffic. Hetzner Online uses its automated security tools to protect your web applications, websites, servers, and IT

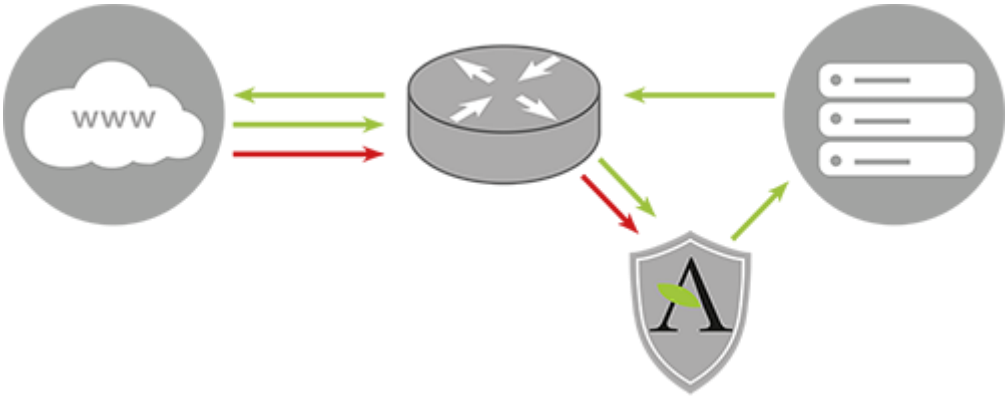
infrastructure from this threat. Our automated system recognizes almost all attack patterns in advance, allowing it to block the attacks and effectively thwart the vast majority of them. It uses the latest hardware applications and sophisticated filter technologies, providing you with first-rate protection against large-scale DDoS attacks. And all that free of charge.

THE SECURITY SOLUTION: DDOS PROTECTION

Our system protects you and your data by utilizing Arbor and Juniper hardware.

DATA TRANSMISSION IN NORMAL OPERATIONS

DATA TRANSMISSION IN A DDOS-PROTECTED SYSTEM DURING AN ATTACK



AUTOMATED RECOGNITION OF ATTACK PATTERNS

In addition to recognizing an attack based on the amount of traffic or the number of packets, we at Hetzner Online are able to clearly define the actual attack and then to specifically home in on and react to that particular type of attack. For example, a UDP flood with 500k pps is harmless for a server. A 500k SYN packet, however, could pose a problem. Our DDoS protection tools can detect precisely this type of difference.

FILTERING TRAFFIC FOR KNOWN ATTACK PATTERNS

This method allows us to effectively filter out the most commonly known attacks by putting them through traffic scrubbing filters. The method is especially successful at

scrubbing out the following types of attacks: DNS reflection, NTP reflection, and UDP floods on port 80.

CHALLENGE-RESPONSE AUTHENTICATION AND DYNAMIC TRAFFIC FILTERING

In this final layer, we filter out attacks in the form of SYN floods, DNS floods, and invalid packets. We are also able to flexibly adapt to other unique attacks and to reliably mitigate them. The above technologies support a high level of automation, which our technicians continually optimize step by step. We can improve the system by analyzing each attack and constantly adjusting our filters and responses.

POWER SUPPLY

AC: 230V, 16A

Redundant UPS facilities

Battery mode: Approx. 15 minutes

Standby power system

Diesel power generator for autonomous mode

Power is supplied via a raised floor system

CLIMATE CONTROL

Energy efficient direct free cooling N+2 redundancy

Cold aisle containment

Under-floor air conditioning

Higher than average raised floor system

Monitoring of air temperature and server/distribution cabinets

COLOCATION RACKS

5,500 sq m of colocation floor space

Optional location in Nuremberg, Falkenstein or Helsinki

Up to 49 rack height units (1 U) in 19" racks

Extra deep racks

Optional cold aisle containment

24/7 access and on-site service

Separate work and relax area

Optional ISDN line installation

FIRE PROTECTION

Modern early warning fire system; covers all data center park facilities and includes an automatic fire alarm system that uses aspirating smoke detectors

Direct connection of the data center's fire alarm system to the local fire and rescue coordination center; includes fault monitoring

Fire detectors include alarms

Separation of the various fire protection areas by fire proof doors

Doors automatically shut when system detects smoke

Handheld CO_2 fire extinguishers and portable wheeled CO_2 fire extinguishers in every data center unit

DC units (buildings) separated from each other with a gap in between them to prevent fire from spreading (flashover) until fire departent arrives

Designated fire-fighting spaces for every data center; spaces kept clear at all times

Rooms for transformers, medium-voltage stations, and battery rooms built with firewalls and fireproof doors

Cable ducts in firewalls are sealed for at least 90 minutes

Ventilation ducts in the firewalls equipped with self-closing fire dampers

Designated Hetzner staff members are fire protection officers and helpers; they communicate regularly with local fire departments

Fire protection plans for every data center; these take into account any differences in structural design

Due to local conditions, there may be differences between the various data center parks.

MANAGEMENT

Bilingual personnel (German/English)

24/7 service by qualified personnel

Installation work by qualified technicians

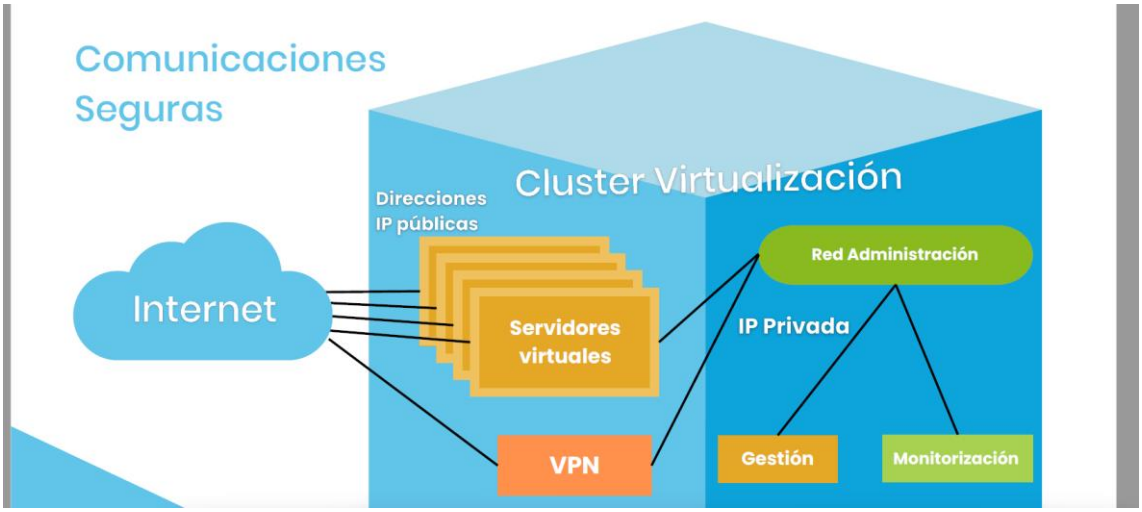
SECURITY

Video-monitored high-security perimeter fencing around the entire data center park

Entry via electronic access control terminals with a transponder key or admission card

Ultra-modern surveillance cameras for 24/7 monitoring of access routes, entrances, security door interlocking systems and server rooms

We optimize the security so that any customer can access the server environment and at the same time the Firewall configurations are made in a logical way focused on the 4 servers with maximum control and with redundant connections at the time of attacks.



The way you will work will be in two environments, either by SSH or by WEBMIN/VIRTUADMIN interface

This is a list of server specifications that will be useful to continue with the Development, we are waiting for you to confirm everything you need to be able to set up your server and be able to start working as soon as possible.

dealerBest 2024