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Cloud computing

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Bcs in Cloud Computing

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Aleksandar Peshankov, Macedonia. I have lived in Bulgaria for 12 years and now I live in UK. Thrilled to come to live in one country that I really wanted to live for a long time.

In Macedonia, I lived in Veles and finished vocational High School "Kole Nedelkoski" Veles as machine technician production. After studying in Medical university prof. dr. "Paraskev Stoyanov" Varna, Bulgaria, seek new opportunity in University of Wales.

2. My first work experience is as Control Room Operator

As Control Room Operator I was responsible for ensuring the correct and accurate completion of the department data and reports, including logs.

Maintain a thorough understanding of site for safety case, relevant regulations, company procedures and best practice of the company. However, I needed to have priorities in my work. Never to underestimate this position. Once I had a difficult case of robbery and really needed day – off of my job.

Promote clients operational excellence incentives to control major accident hazards, maximise production and minimise waste through continual improvement.

Support the Officer in all aspects of activities.

Assume duties as Technician along with other responsibilities, reporting and handing over to both the maintenance supervisor and the Barge master respectively.

In a grocery in Varna I was Food Manager, my education helped me in this position. Working with food and about health was really huge responsibility for me at the time. Not been able to even think of mistakes, was a great challenge. "The customer is always right" continues to be the golden rule of any business. Even if you disagree with a customer's complaint, how you handle the situation will determine whether the customer returns. Your goal is to keep the customer experience positive.

Run a successful restaurant business and avoid costly mistakes by doing the following:

Effectively deal with customer complaints to encourage return visits.

Manage job expectations of staff to ensure they give optimum effort.

Take advantage of current modes of advertising to gain the most exposure.

Monitor revenue and expenses to ensure the restaurant is operating optimally.

Determine ways to increase sales such as special promotions, catering services, menu changes, and entertainment.

3. Setting Job Expectations

As a Health Inspector, working for the Bulgarian Government, my education was really helpful. Everything led me to this. This was my vocation. Really find myself in this opportunity.

And I finished my career path as a Exchange cashier. Money was one of my weak side. Everything changed when I needed to work this. Like working in a coffee shop without drinking coffee at all (just joking). Still, figure everything out, like Invoices, Proforma Invoice, Storage of Cash and other words in Economic was very interesting for me. Keeping track of storage of products and money, debt and earning is the path that led me to UK.

1. Skills

Initiative

Responsible and reliable person, self – initiative. Always looking for ways to improve and serve to my working tasks. Impressive personality, slick in execution. Important tasks made a priority, no matter what!

My work experience made me this way, I needed to be initiative and punctual also.

Precision

Precision is what makes me best in what I do. I need this to improve my programming skills in future.

Planning

Not letting distractions putting me out of my schedule. MY plans make sure work gets done.

Teamwork

I am great, outgoing person, easy to communicate to and co-operate with. I do know to make things really work in human connections and collaborative person.

Communication

Good self-explanation of my ideas and opinions in clear and distinctive way. Good listener, presenting or being able to persuade others.

Problem-solving

I can assess a situation and understand what is causing issues, then develop solutions.

2. Why cloud computing?

CLOUD COMPUTING, the dream of computing, has a potential to change a large part of the IT industry. It is making software more attractive. Developers with innovative ideas for Internet no longer require a huge capital in hardware to develop their service to operate it. With a vast costly resources for one that becomes wildly popular, a missing potential customers and revenue is reality.

3. DEFINITIONS FOR CLOUD COMPUTING

Cloud computing refers to the application as services and also hardware and system software in centres which provide them. The services have been referred to as software as a services (SaaS). The data centre hardware and software is a cloud. Public - When a service provider makes resources available to the public over internet is called a public cloud. while a private cloud- it refers to internal data centre of a organization not available to public platforms.

Service provider and its usage- Service provider has simplified software installation way, maintenance and centralized control.

End user can access a service by means "anytime, anywhere", share data, meaning data storage, and collaborate easily. Keep in mind that keeping their data stored in the infrastructure is more than important.

Crucial parts in software infrastructure data - Service, Data transfer, Data lock in, Performances predictability, Software licensing. Scalable storage.

Essential characteristic of cloud computing -On-demand self-services.

4. Advantages of Software As A Service?

Cloud computing offer a multitude of advantages to users. From better accessibility and scalability to cost reduction and improved organizational agility. They give companies a better and more efficient way of utilizing resources. The main advantages of cloud computing:

Device and Location Independence

Users can access systems using a web from any location they are using.

Easier Maintenance, Lower Costs

Cloud platforms enable easy maintenance not needing to be installed on user's computer. This already existing infrastructure saves set-up time and eliminates maintenance costs.

Multitenancy versus Pooling

A large number of users can share resources across multiple departments and even physical locations. Additionally, the infrastructure centralization allows resource pooling and multiple consumer service using a multi-tenant model which dynamically assigns resources according to demand.

Increased Productivity, Faster Time to Market

Using a cloud platform improves productivity, teams can work simultaneously, saves time on information sharing. This improves time-to-market allowing companies to deliver.

5.Improved Security

Data centralization, increased security-focused resources, makes security greatly improved. Cloud service providers use high-end systems to protect sensitive data, also assign dedicated resources to resolve any information security issues.

Advantages of "Software As a Service" are: Time-to-value as SaaS based application performance can be deployed in a small time frame i.e. the time you read this ; cheap cost-licenses, maintenance, administration, hardware; easy to usage and highly scalable.

Advantages of cloud computing- Cost efficient, best performance and data storage, backup and recovery, automatic data integration, easy access, quick data development.

Disadvantages of cloud computing - Technical issues, security of a cloud, attackable.

What is Hypervisor in Cloud Computing and its types – As a progame software engineer

must say that this was the hard part to learn. The hypervisor is virtual machine monitor (VMM), managing resources for virtual machines. The name hypervisor is suggested, and it is a supervisory tool for the virtual machines. Mainly two types of hypervisors:

Type-1: guest Vm runs directly over a host hardware,

Type-2: guest Vm runs over hardware through a host OS.

One prefer public cloud and other don't? The cloud technology is the best example of sustainable technology that utilizes all the computing resources. If a person has to setup quick business and wants to host its website, he need not require setup a full-fledged private cloud.

The hybrid cloud made of multiple service providers and model integrates different cloud services for Hybrid Web hosting. A basically a combination of private and public cloud characteristics, used by the company when one has requirements for private and public clouds.

Here are the 6 best ways you can improve cloud security:

1. Deploy Multi-Factor Authentication (MFA)

The traditional username and password combination is often insufficient to protect user accounts from hackers, and stolen credentials is one of the main ways hackers get access to your on-line business data.

Once they have your user credentials, they can log into all these cloud-based applications and services that you use every day to run your business.

2. Manage Your User Access to Improve Cloud Computing Security

Most employees don't need access to every application, every piece of information, or every file.

Setting proper levels of authorization ensures that each employee can only view or manipulate the applications or data necessary for him or her to do their job.

3. Monitor, Log, and Analyze User Activities With Automated Solutions to Detect Intruders

Real-time monitoring and analysis of user activities can help you spot irregularities that deviate from normal usage patterns, e.g., log in from a previously unknown IP or devices.

These abnormal activities could indicate a breach in your system so catching them early on can stop hackers in their tracks and allow you to fix security issues before they cause mayhem.

4. Create a Comprehensive Off-boarding Process to Protect against Departing Employees

When employees leave your company, make sure they can no longer access your systems, data, customer information, and intellectual properties.

Since each employee would likely have access to many different cloud applications and platforms, you need a systemized deprovisioning process to ensure that all the access rights for each departing employee are revoked.

5. Provide Anti-Phishing Training for Employees on a Regular Basis

Hackers can gain access to secure information by stealing employees' login credentials through social engineering techniques such as phishing, spoofing websites, and social media spying.

As an example, the rapid expansion of Microsoft Office 365 has made it a very attractive target for hackers - more and more threats are emerging, specifically the frequency of phishing attacks.

6. Consider Cloud to Cloud Back Up Solutions

There are legitimate risks associated with any cloud application suite or platform. As mentioned, the odds of you losing data because of your cloud provider's mistake is very low - but losing that data due to human error is high. If an employee or administrator should accidentally delete data, if a hacker obtains an account password and corrupts or deletes the data, or a rogue employee cleans out his inbox and folders - there is nothing Microsoft can do. Microsoft

Companies that must abide by strict regulations or are concerned with being held liable due to missing or corrupted data, are turning to cloud-to-cloud back up solutions.

6.Tag thing out – in my way

Good cloud relies on good tag: a disciplined, well-designed tagging. In the multi-cloud environments, enterprises are embracing enterprise-grade cloud platforms as a key to successful management of highly complex pricing data and evolving cloud services. Using automation for maintain good tag will support governance initiatives for cloud security, cloud cost reporting and cloud cost optimisation.

Applying a consistent set of tag globally across all of resources will add metadata specific. This can help improve categorisation of each of a cloud data for cost allocation, reporting, cost optimisation and security. Once implemented, a robust tagging will enable a organisation to optimise costs across all clouds and guarantee that a company has access to all of a cloud services.

Tagging policy

In a absence of a tagging policy, it's too common for individuals or teams to use variations a tag. When this happens, accurate reporting becomes very difficult. To avoid complications and to ensure that tag is. used effectively for governance and reporting purposes, having a tagging policy is a critical control point.

A well-defined tagging incorporates:

Global tags, how they are applied consistently by cloud computing organisation.

Each cloud provider's tags. As each cloud provider has different limits and restrictions on tags, your tagging policy must have these parameters.

7. Implement and monitor a tagging policy

Create a rollout process for a tagging policy. This will help ensure implementation and monitoring, aided by buy-in from all relevant parties.

Stage 1: Define the tagging policy: Have your cloud team lead a process to define a global tagging policy. The team should work with key stakeholders to get feedback and buy-in. Once this team specifies the needed global tags, development teams and resource owners will be responsible for adding the global tags.

Stage 2: Reporting: The cloud team creates reports showing the current state; track improvements in tag coverage; and identify the level of coverage for global tags.

Stage 3: Alerting: The cloud governance team sets up daily automated alerts about resources missing the required tags.

Stage 4 (optional): Alerting with automated termination or escalation: The cloud governance and central IT teams need also set up automated "tag checking" to alert on missing tags. Alerts on untagged resources specify a defined window to tag resources. Enforcement could include sending an escalation to managers or, in some cases, adding default tags or even terminating instances that aren't tagged correctly (only for non-production workloads)

8. Cloud Computing overall

Earlier we used to store our data in hard drives on a computer. Cloud Computing services have replaced such hard drive technology. Cloud Computing service is nothing but providing services like Storage, Databases, Servers, networking and the software through the Internet.

Few Companies offer such computing services, hence named as "Cloud Computing Providers/ Companies". They charge its users for utilizing such services and the charges are based on their usage of services.

We use a cloud service without our notice like web-based email service, watching movies via internet, editing documents and storing pictures. Using such cloud technology we can design and create new applications, store and recover data and hosting the website.

9. Conclusion

Cloud computing continues to expand, to dominate the transactions of information because it offers many advantages, allowing the users to have access easily, instantly to any network device. It is to be noted that the rich and up-to-date people in technology will afford the implementation of the cloud systems at home. The future IT systems will undergo great adjustments if big and small companies adopt the cloud computing system. The cloud computing system will become more and more important by the characteristic it offers: having ubiquitous data. Extending the cloud computing system phenomenon should be the main concern of the service suppliers. The purpose of this phenomenon lies in the development of the quality and efficiency of the organizations' services.

The Internet of the future that is the cloud computing, implies all the efficient activities, making thus an infrastructure network that integrates all types of resources and all types of utility domains. Thus, the research referring to the cloud technologies forms a virtual part of the future of the Internet.

Cloud computing is one of my best area for studying, really hope to contribute in this vast and interesting industry.