Server: Surveillance Computing, Kubernetes Ingress, MongoDB 4.2, Linux Foundation on 'DevOps'

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- **Linux and Cloud Computing: Can Pigs Fly? Linux now Dominates Microsoft Azure Servers**[2] **[Ed: This is not about "Linux" dominating Microsoft but Microsoft trying to dominate GNU/Linux [3]]**

  Over the last five years things have changed dramatically at Microsoft. Microsoft has embraced Linux. Earlier in the year, Sasha Levin, Microsoft Linux kernel developer, said that now more than half of the servers in Microsoft Azure are running Linux.

- **Google Cloud Adds Compute, Memory-Intensive VMs** [4]

  Google added virtual machine (VM) types on Google Compute Engine including second-generation Intel Xeon scalable processor machines and new VMs for compute- and memory-heavy applications.

- **Kubernetes Ingress** [5]

  On a similar note, if your application doesn?t serve a purpose outside the Kubernetes cluster, does it really matter whether or not your cluster is well built? Probably not.

  To give you a concrete example, let?s say we have a classical web app composed of a frontend written in Nodejs and a backend written in Python which uses MySQL database. You deploy two corresponding services on your Kubernetes cluster.

  You make a Dockerfile specifying how to package the frontend software into a container, and

similarly you package your backend. Next in your Kubernetes cluster, you will deploy two services each running a set of pods behind it. The web service can talk to the database cluster and vice versa.

- **MongoDB 4.2 materialises with $merge operator and indexing help for unstructured data messes**[6]

  Document-oriented database MongoDB is now generally available in version 4.2 which introduces enhancements such as on-demand materialised views and wildcard indexing.

  Wildcard indexing can be useful in scenarios where unstructured, heterogeneous datasets make creating appropriate indexes hard. Admins can use the function to create a filter of sorts that matches fields, arrays, or sub-documents in a collection, and adds the hits to a sparse index.

  [...]

  Speaking of cloud, last year MongoDB decided to step away from using the GNU Affero General Public License for the Community Edition of its database and switched to an altered version. The Server-Side Public License is meant to place a condition ? namely, to open source the code used to serve the software from the cloud ? on offering MongoDB as a service to clients.

- **Announcing New Course: DevOps and SRE Fundamentals-Implementing Continuous Delivery**[7]

  The Linux Foundation, the nonprofit organization enabling mass innovation through open source, announced today that enrollment is now open for the new DevOps and SRE Fundamentals ? Implementing Continuous Delivery eLearning course. The course will help an organization be more agile, deliver features rapidly, while at the same time being able to achieve non-functional requirements such as availability, reliability, scalability, security, etc.

  According to Chris Aniszczyk, CTO of the Cloud Native Computing Foundation, ?The rise of cloud native computing and site reliability engineering are changing the way applications are built, tested, and deployed. The past few years have seen a shift towards having Site Reliability Engineers (SREs) on staff instead of just plain old sysadmins; building familiarity with SRE principles and continuous delivery open source projects are an excellent career investment.?

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[5] https://linuxhint.com/kubernetes_ingress/

[6] https://devclass.com/2019/08/14/mongodb-4-2-materialises-with-merge-operator-and-indexing-help-for-unstructured-data-messes/

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