

The image is a digital artwork with a dark blue background. It features a grid of small, light blue dots. Overlaid on this grid are several glowing, interconnected lines and nodes, resembling a network or data flow. The lines are primarily white and yellow, with some nodes highlighted in red. The overall effect is a complex, abstract representation of digital connectivity. The lines and nodes are arranged in a way that suggests a flow of information or data, with some lines branching out and others connecting different points. The glowing effect gives the impression of active data or energy moving through the network.

Jill Perez: To set the stage, for those that don't know, what is Kubernetes?

Jill: What exactly was the big security news on Kubernetes?

Jill: What does CVSS stand for?

Jill: In a nutshell then, what is the actual vulnerability?

Rick: I'll try not to geek out here. So, the privilege escalation flaw enables bad guys to grab – or girls – grab full administrative control of any compute resource run in a Kubernetes' cluster. So, this is bad, bad, hair-on-fire bad. So, there's a good deal of technical detail about this vulnerability on the web and I'll not attempt to parse that here. You can pay me later, but suffice to say, anyone who is aware of this vulnerability, and now we must assume that everyone is because it's been reported on, can become admin of your Kubernetes servers.

They can kill containers, start new processes, and install malware like that which is used to mine Bitcoin and other cryptocurrencies. Now, for the uninitiated, so-called cryptojacking is computationally intensive and therefore, very costly. But for the pirates, it doesn't cost them anything because you would be paying for them, for the compute time. So, you'll be paying for Bitcoin's pirating of your infrastructure.

But that's just one example. You could think bigger picture. They could delete your production applications, kill them, hold them for hostage, effectively bring your business to its knees.

Jill: Who would be affected and what exactly would the solution be?

Rick: Anyone running Kubernetes version 1.0 – still 1.9 is affected. Patched versions are available in Kubernetes 1.10 and higher. So, the solution is – I'm afraid to say, and this is going to be a bitter-tasting pill. Customers absolutely have to upgrade their Kubernetes environments. So, as disruptive as that sounds, and I can imagine a bunch of IT people groaning right now. It pales in comparison to the threat that your business faces right now. Bringing your business down or allowing, worse yet, just allowing bad actors to sneak in through the open front door and just hang out for a while undetected and do who knows what later.

Jill: How would someone figure out if their business is exposed?

Rick: We became aware of the vulnerability on December 3rd. And as I mentioned, the emails were making the rounds and our Cloud Operations team was talking with our [security](#) team. Like many in the industry, we were hustling trying to get our arms around this and figure out the implications to us and implement a remedial plan of action.

So, on December 6th, we released a policy, a security and compliance policy, for TrueSight Cloud Security, which will automate a security check of the Kubernetes deployment and flag any noncompliant versions. So, typically we talk about TrueSight Cloud Security as automated find and fix, but here it's find and flag because really the only fix is to upgrade your Kubernetes deployment. But with it a customer's security and compliance team could shut down the vulnerable Kubernetes environment and, as previously mentioned, the only solution is to upgrade Kubernetes to 1.10, 1.11, or higher.