

Patrik Jonsson

Architect

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About

I love bridging between areas and learning more about the technology around me. My motto is that walls between teams are meant to be broken down with knowledge sharing and transparency. Teams are stronger when they work together!

When I do something I always strive to make it as simple as possible without losing functionality or comprehensiveness. Make it right from the start, and you've got less maintenance headaches later. With experience from many different areas I have the ability to see the big picture and this makes me able to create clever solutions to complicated problems.

Experience

Swedish Government Agency / SRE (Consultant)

June 2022 - Present, Remote

Working in a small team administering on premise Kubernetes platforms and all the components that go along with that. Doing almost everything with Infrastructure as code using Git, Ansible and Terraform. Given the sensitivity of the assignment I can't share the name in the CV.

Working with: Kubernetes, Service Mesh, Ansible, Terraform, Python, Node.js, React, Typescript, Prometheus, Grafana, ElasticSearch, Logstash

Canned Communications / CTO

May 2021 - May 2022, STOCKHOLM

Being a CTO of a startup in the field of video communications means you have to roll up your sleeves and deal with anything from leading/guiding developers to setting up deployment pipelines and planning for features. During my time at Canned I introduced the developers to test driven development and integration testing using Cypress.io. I also made their staging environments more cost effective by running them on demand. Introduced GitHub Actions to run unit tests, integration tests and deploys.

Working with: AWS, NodeJS, React, Cypress.io, GitHub Actions, Python, Docker, ElasticSearch, Grafana

Net Entertainment / SRE (Consultant)

May 2019 - May 2021, STOCKHOLM

The role involves long term development of the infrastructure and the areas around it. Both on premise, and in the public cloud. Some of the deliveries was to setup a log management platform from scratch, creating web tools around visibility and transparency, converting their F5 iRules load balancer setup to a containerized NGINX solution, developing new features in their Python flask based APIs, creating GCP infrastructure using Terraform.

Working with: Google Cloud Platform, Terraform, F5, Python, React, NodeJS, GitHub Actions, Akamai, Docker, Kubernetes, Powershell, Fortigate, Cisco ASA, Arista, Logstash, Logz.io, Grafana

Scania / Global Technical Architect (Consultant)

April 2018 - May 2019, STOCKHOLM

Responsible for the global technical design of network security, including Firewalls, Load balancers, Proxies and cloud integrations. The role includes leading their Network security team from a technical perspective and integrating with other teams and providing durable solutions in a highly dynamic infrastructure.

Working with: Checkpoint, Bluecoat proxies (on premise and cloud), Z-scaler, NodeJS, React, F5 BIG-IP LTM, GTM, Logstash, Elastic Search, Splunk

Indeni / IKE Consultant

November 2016 - July 2019, STOCKHOLM

My role was to design and create all their monitoring scripts for F5 load balancers using Awk, YAML, JsonPath and Git. I've also contributed many scripts in other areas such as CheckPoint, Palo Alto, Cisco and Bluecoat. After a few months I was given the responsibility to mentor new consultants and leading the Palo Alto script team.

Awarded "Member of the month" in October 2017.

Betsson Technologies / Head of Load balancing

January 2011 - April 2018, STOCKHOLM

Responsible for Betsson Group network environment, both production and office, spread globally. Regular tasks involved designing and planning of new networks to ensure both uptime and security.

The daily work consisted of managing load balancers, switches, external DNS and firewalls, as well as authentication solutions from RSA and different monitoring solutions. We monitored, planned and designed for the future, in order to meet the needs of the organization.

In 2013, Betsson sent me to China to help their project in Wuhan, Hubei by coordinating the local efforts with those in Stockholm. Maintaining my role as head of load balancing while assuming this new one was challenging, but fun, and working with our Chinese partner was a different experience altogether and often forced me to think on my feet.

Some of my accomplishments at Betsson

- Made the network configuration more accessible to the developers by creating tools of transparency.
- Held regular sessions explaining how our network equipment works and how the developers could leverage it.
- Replaced all QA certificates with an automated Let's Encrypt solution based on PowerShell.
- Created a Splunk dashboard for network monitoring by collecting, and merging data from multiple sources such as F5, Checkpoint, and Solarwinds Orion. With it we were able to alert teams about problems before they even knew about them themselves.

Nominated and accepted to the Betsson High Potential programme which recognizes and further develops individuals with leadership potential.

Worked with: F5 BIG-IP LTM, CheckPoint, Cisco Switches, Juniper Switches, Splunk, RSA, PCI DSS, Bash, IIS, Apache, PowerShell, Python, JavaScript, Zabbix

EPiServer AB / Systems Engineer

DEC 2010 - DEC 2011, STOCKHOLM

The operations team at Episerver was quite small at the time with a group that consisted of 8 people. This meant that you needed to be able to handle any problems that come your way, from networking to server side. Given my strength and interest in automation my focus area quickly became to automate the server and application deployment.

The result was a graphical user interface and a script that has since been used to deploy several hundreds of servers.

Worked with: F5 BIG-IP LTM, PowerShell, Deployment, Tivoli Storage Manager, IIS, SQL Server, HP Switches, Zabbix, Clavister Firewalls

Genti AB / IT consultant

NOV 2005 - DEC 2010, STOCKHOLM

Worked with: F5 BIG-IP LTM, IIS, SQL Server, VBScript, PowerShell

Education

Royal Institute of Technology / Bachelor of Science, Computer and Security

2002 - 2005, STOCKHOLM

University time has probably been the best foundation for my career that I could've gotten. The different subjects that we were taught gave insight into anything from bits, bytes and circuits to higher level knowledge like databases, network design and programming. But it was the Python course that seriously sparked the interest for automation.

Awards

F5 Devcentral Most Valuable Player 2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015 and 2014

The F5 Devcentral MVP award is given to members who distinguish themselves with the quality of their answers and engagement in the community. By participating in discussions around application delivery and sharing code I've been able to vastly widen my knowledge and kept it up to date.

I've had the honor of receiving the award 8 times in a row and in August 2018 I held a presentation on F5 Agility in Boston about my approach to create a culture of transparency and knowledge sharing at the workplace..

Projects

BigIP Report

One of the first things I realized at Betsson was the need to create transparency between the Network Team and the organization. People were often confused as to how and where things were configured and a considerable part of our daily tasks was just to answer simple questions.

BigIP Report is the answer to these types of problems. It gives Network admins a way to visualize the infrastructure without granting access to the admin interfaces. Today it is the highest rated project on F5 Devcentral and used by many large companies and organizations around the world. Given the old code base it would deserve quite a bit of refactoring but time is a constraint so the progress is slow.

Logstash pipeline tester

Developing pipelines in Logstash is time consuming and could be seen as complex for people without Linux knowledge. This tool was created to serve as an easier way to develop and test Logstash filters by giving the user a UI interface where they can input raw logs and directly see the results of their pipelines. Any changes are automatically detected and the pipeline reloaded for a smooth iterative update process.

Currently working on improving this project by adding a framework for regression testing to ensure that any changes to the pipelines does not have a negative effect on previous configurations.

<https://github.com/epacke/logstash-pipeline-tester>

All my published work is available via <https://loadbalancing.se>