

Maxim Igorevich Tishkin

IT Infrastructure Architect, Platform Engineer, DevOps Engineer, Network Engineer, Software Engineer

[Worldwide](#) · [remote](#) · [relocation](#)

Enterprise infrastructure from data center to Kubernetes: design, automation, and operations. Own HPE data center — 5 years solo.

M.Tishkin



EXECUTIVE SUMMARY

Infrastructure Architect / Platform Engineer with hands-on experience designing, launching, and operating enterprise infrastructure: private data center, virtualization, Kubernetes, networking, storage, observability, and automation.

- Design platforms from hardware and SAN to Kubernetes, GitOps, monitoring, and operating processes.
- Operate hands-on: not only define target architecture, but build, automate, document, and run it in production.
- Strong focus on reliability, reproducibility, and transparent operations: IaC, backup/DR, SRE practices, metrics, alerts, and runbooks.

IT Infrastructure Architect Platform Engineer DevOps / SRE Engineer Cloud / Kubernetes Engineer

WORK FORMAT

- Geography: all countries, no restrictions
- Remote work — fully remote
- Relocation — open to moving
- Office / hybrid — by agreement
- Contract — project, consultation, on-site visit

WORK EXPERIENCE

IT Infrastructure Architect

Company (TBD) · 20XX — present

- Enterprise platforms: virtualization, K8s, networking, storage, observability
- IaC, GitOps, DR/BCP, DevSecOps, and SRE

Platform / DevOps Engineer

Company (TBD) · 20XX — 20XX

- Production Kubernetes, GitLab CI/CD, monitoring
- Canary and blue/green deployments

System Administrator / Network Engineer

Company (TBD) · 20XX — 20XX

- Linux, virtualization, enterprise networks, backup
- Storage lifecycle: production tier, cold backup, replication, restore testing

EDUCATION AND GROWTH

Higher education, IT field

Foundation for systems thinking, engineering approach, and independent growth

- Continuous practice on private infrastructure and production-like environments
- Independent learning of new technologies followed by real project adoption

KEY ACHIEVEMENTS

Private server infrastructure

Personal data center: full design, deployment, and operations lifecycle · 5 years solo

- 16 HPE BL460c Gen9/Gen10 servers in HPE C7000 blade chassis
- HPE 3PAR 7400 storage — production tier
- ASUS Stor — cold backups; dedicated Proxmox Backup Server for VMs
- Zyxel, Eltex, MikroTik, and HPE switches
- Climate, power outlets, and facility equipment — Home Assistant in an isolated segment

Entire infrastructure under my ownership

Virtualization and private cloud architecture

Proxmox VE cluster on HPE BL460c and Dell PowerEdge / Supermicro nodes

- 40+ production VMs, HA, live migration
- Data replication, centralized backup, Ceph Storage, Proxmox Backup Server
- Upgrades without service downtime

Availability >99.99%

Kubernetes Enterprise Platform

12-node production cluster for microservices infrastructure

- Calico, MetalLB, NGINX Ingress, Cert Manager, ArgoCD
- Prometheus, Grafana, Loki, OpenTelemetry
- 150+ containers, HPA/VPA, canary and blue/green deployments

Platform engineering: from cluster to developer experience

Team communication on Kubernetes

Self-hosted team communication server ·

- Self-hosted corporate communication platform in a production Kubernetes cluster
- Chats, channels, file sharing, and integrations for team collaboration
- Audio and video calls (WebRTC), TLS, Ingress, resilient deployment

Full lifecycle: from deployment to operations

Nginx Proxy Manager fork

Edge proxy for Kubernetes: scaling, HTTP/3, and GeoIP

- Custom NPM fork tailored for production Kubernetes
- Optimizations for 9+ replicas with HPA without config or session degradation
- QUIC (HTTP/3), GeoIP traffic filtering
- TLS termination, reverse proxy, and targeted operational improvements

Enterprise network and SAN

Internal mixed data center network, Spine-Leaf

- BGP, OSPF, VXLAN, EVPN, MPLS, Anycast, ECMP, LACP, VRRP
- SAN: Fibre Channel, iSCSI, zoning, multipath
- Blade servers and HPE 3PAR connected to the SAN fabric
- Multi-provider load balancing, seamless failover

Distributed Ceph storage

Dozens of TB, thousands of IOPS, geo-distribution

- CephFS, RBD, S3 RGW, erasure coding, replication
- Integration with Kubernetes and Proxmox
- Focus on verified recovery and predictable performance

Reliability-first storage/database operations

GitLab Enterprise Platform

Self-hosted corporate development platform

- GitLab HA, Runner Farm, Container/Package Registry
- Fully automated CI/CD, GitOps

Databases: tuning, replication, clusters

PostgreSQL, MySQL — design and production operations

- Tuning: indexes, EXPLAIN ANALYZE, vacuum/autovacuum, memory tuning, pgBouncer
- Replication: streaming, logical, master-slave, sync/async
- Clusters: Patroni, Galera, InnoDB Cluster, automatic failover
- PITR, backups, metric monitoring, and database alerts

Corporate web systems development

10+ projects: CRM, portals, forums, CMS, blogs

- PHP 8, ES6+, Bootstrap 5, MySQL, PostgreSQL, Redis
- REST API, Elasticsearch, Telegram/Email integrations

Infrastructure automation (IaC)

Terraform, OpenTofu, Ansible, GitLab CI/CD, ArgoCD

- Cluster deployment in under 30 minutes
- Automated backup and full recovery from code

FULL INFRASTRUCTURE LIFECYCLE

Infrastructure & DC

Own data center on HPE BladeSystem and 3PAR, Proxmox VE, tiered backup, DCIM via Home Assistant.

Networks, SAN & storage

Spine-Leaf, multi-provider failover, Fibre Channel/iSCSI, Ceph and K8s integration.

Kubernetes & platforms

Production clusters, GitOps, autoscaling, observability — from design to operations.

DevOps, DB & development

GitLab CI/CD, IaC, PostgreSQL/MySQL clusters, enterprise web systems.

SERVICES

Virtualization & private cloud architecture

Fault-tolerant Proxmox VE cluster on HPE BL460c Gen9/Gen10 and Dell/Supermicro nodes: 40+ VMs, HA, live migration, replication, Ceph Storage, Proxmox Backup Server.

Corporate network & SAN

Internal mixed data center network: BGP, OSPF, VXLAN, EVPN, MPLS, Anycast, ECMP, LACP, VRRP. Spine-Leaf architecture, segmentation, low latency.

Databases

PostgreSQL, MySQL: schema design, performance tuning, replication and fault-tolerant clusters for highload production.

Enterprise web systems

10+ projects: Enterprise CRM, portals, forums, CMS, blogs. PHP 8, ES6+, Bootstrap 5, MySQL, PostgreSQL, Redis.

Infrastructure automation (IaC)

Terraform, OpenTofu, Ansible, GitLab CI/CD, ArgoCD. Cluster deployment in <30 minutes, full recovery from code.

Private data center & engineering systems

Personal enterprise-grade site: blade cluster, tiered storage, network and DCIM — all under personal responsibility.

Kubernetes Enterprise Platform

Production 12-node cluster: Calico, MetalLB, NGINX Ingress, Cert Manager, ArgoCD, Prometheus, Grafana, Loki, OpenTelemetry.

Ceph distributed storage

Ceph MON/OSD/MGR, CephFS, RBD, S3 RGW, erasure coding, replication, geo-distribution. Dozens of TB, thousands of IOPS.

GitLab Enterprise Platform

GitLab Self-Hosted HA, Runner Farm, Docker/Kubernetes Executors, Container Registry, Package Registry, GitOps.

Linux Software Engineering

Custom system services: monitoring, backup, auto-deploy, server management, log rotation, diagnostics.

Server hardware

15+ years with HPE, Dell, Supermicro, Lenovo, IBM. Own fleet: 16x HPE BL460c Gen9/Gen10 in C7000, HPE 3PAR 7400 storage, iLO, RAID, diagnostics.

IT Infrastructure Architect

Data centers, networks, K8s platforms, DB, storage, fault tolerance, DR, BCP, DevSecOps, SRE. Own DC: 16 HPE blades, 3PAR, 5 years solo.

SKILLS

Infrastructure & platforms

Proxmox VE / HA Terraform / Ansible Kubernetes GitOps / ArgoCD HPE BladeSystem

Networks, SAN & storage

BGP / OSPF / VXLAN Fibre Channel / iSCSI Ceph / 3PAR Spine-Leaf Multi-provider

Databases & development

PostgreSQL / MySQL Patroni / Galera PHP 8 / ES6+ Redis / Elasticsearch REST API

Observability & security

Prometheus / Grafana Loki / OpenTelemetry SRE practices DevSecOps MLOps

STACK

Architecture, DevOps, SecOps, MLOps — and a private data center on HPE BladeSystem, 3PAR, and Proxmox.

Private data center

HPE C7000 HPE BL460c Gen9/10 HPE 3PAR 7400 ASUS Stor Proxmox Backup Home Assistant DCIM / IoT Tiered backup Solo ops 5 years

Architecture & Platform

Kubernetes Proxmox VE Ceph Helm Kustomize Argo CD Flux CD MetalLB Calico Cert Manager Istio Linkerd Service Mesh Pod Security Network Policies

DevOps & CI/CD

GitLab CI/CD GitHub Actions Jenkins Docker Harbor Nexus GitOps Terraform OpenTofu Ansible Packer Cronicle Rolling Updates Blue/Green Canary Deploy

SecOps & Security

Vault Falco Trivy OPA / Gatekeeper SAST / DAST SBOM RBAC Zero Trust mTLS Wazuh fail2ban iptables / nftables LDAP / AD TLS / PKI Secrets Management Audit Logging

MLOps & AI

MLflow Kubeflow Apache Airflow KServe Feast Feature Store Model Registry ONNX Runtime Triton Inference TensorFlow Serving Ray Jupyter GPU Scheduling Data Drift Monitoring Batch / Online Inference

Observability & SRE

Prometheus Grafana Loki Tempo OpenTelemetry Alertmanager Jaeger Elasticsearch VictoriaMetrics SLO / SLI Error Budget On-call Runbooks Incident Response

Networks & SAN

SAN Fibre Channel iSCSI FCoE SAN Zoning Multipath HPE 3PAR SAN BGP OSPF VXLAN / EVPN MPLS ECMP LACP VRRP Spine-Leaf Mixed LAN Multi-provider Multi-provider balancing NGINX HAProxy DNS / DHCP Asterisk VoIP / SIP Anycast Zyxel Eltex MikroTik HPE Switches

Databases & Cache

PostgreSQL MySQL / MariaDB Query Tuning EXPLAIN / Profiling Streaming Replication Logical Replication Patroni Galera Cluster InnoDB Cluster PgBouncer ProxySQL Redis Elasticsearch MongoDB PITR Backup HA Failover

Development & API

PHP 8 Python Bash Go JavaScript ES6+ REST API gRPC OpenAPI HTML5 / CSS3 Bootstrap 5 Microservices Event-driven

Hardware & Storage

HPE BL460c Gen9/10 HPE C7000 HPE 3PAR 7400 HPE ProLiant Dell PowerEdge Supermicro ASUS Stor Proxmox Backup Lenovo IBM iLO / iDRAC / IPMI RAID ZFS LVM BMC Hardware Diagnostics

SELECTED PROJECTS

HPE BladeSystem + 3PAR + tiered backup

16 HPE BL460c Gen9/Gen10 servers in C7000 chassis. HPE 3PAR 7400 storage, cold backups on ASUS Stor, Proxmox Backup Server for VMs. Zyxel, Eltex, MikroTik, and HPE switches. Home Assistant in an isolated segment: climate, power outlets, and facility equipment. Solo operations for 5 years.

[HPE C7000BL460c3PARHome Assistant](#)

Private Proxmox VE cloud

4 Dell PowerEdge / Supermicro nodes, 40+ VMs, HA, live migration, replication, Ceph Storage, centralized backup. Zero-downtime upgrades. SLA >99.99%.

[ProxmoxHACeph](#)

Kubernetes Enterprise (12 nodes)

3 masters + 9 workers. Calico, MetalLB, NGINX Ingress, Cert Manager, ArgoCD. Prometheus, Grafana, Loki, OpenTelemetry. 150+ containers, HPA/VPA, canary and blue/green.

[K8sArgoCDObservability](#)

Self-hosted video conferencing on Kubernetes

Self-hosted Jitsi Meet in a production cluster: video conferences, WebRTC, TLS, Ingress, and resilient deployment. Used for consultations and team communication.

[Jitsi MeetKubernetesWebRTCIngress](#)

Nginx Proxy Manager fork for Kubernetes

Custom NPM fork optimized for production Kubernetes: stable operation with 9+ replicas and HPA, QUIC (HTTP/3) support, GeoIP filtering, and targeted improvements for edge proxying and TLS termination.

[NPMKubernetesHPAHTTP/3GeoIP](#)

Clustered DNS on PowerDNS

Custom resilient DNS implementation: clustered PowerDNS, web UI for zones and records, distributed caching DNS proxies for low latency and authoritative node offload.

[PowerDNSDNS clusterCache proxyWeb UI](#)

Secure Mailcow mail server

Self-hosted corporate mail on Mailcow: SMTP/IMAP, web UI, TLS, anti-spam and anti-virus, DKIM/SPF/DMARC. Full control over domains, mailboxes, and delivery without external providers.

[MailcowSMTPDKIMWebmail](#)

Internal network and SAN fabric

Mixed enterprise network: Spine-Leaf, BGP, OSPF, VXLAN/EVPN, ECMP, LACP, VRRP. Multi-provider load balancing, automatic failover. SAN: Fibre Channel, iSCSI, zoning, multipath. HPE BL460c and 3PAR 7400.

[SANFibre ChanneliSCSI](#)

CONTACT

- Worldwide · remote · relocation · office / hybrid
- Any country · no location restrictions

