Tomás Herrera Junior Infrastructure Engineer

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PROFILE SUMMARY

- **Junior Infrastructure Engineer** with **2 years** on the compute and virtualization team at **NBCUniversal**, after 2 years in IT support at Vimeo, working on **VMware clusters**, Linux builds and backups.
- Works with **RHEL 9** and Windows Server on **VMware vSphere**, automates builds with **Ansible** and Terraform, backs up with **Veeam**, and watches hosts and datastores in **Prometheus** and Grafana.
- Knows **VM builds from a standard template**, **restore testing** and **datastore capacity alerts**, and is learning **Kubernetes** on the team's Rancher pilot clusters.
- Works with the senior infrastructure engineers, the **network team** and app owners on maintenance windows, and handles VM and storage requests from the **news and sports app teams** in ServiceNow.
- Wrote the team's **Linux build runbook** and **restore test checklist**, and helps the data center technicians with rack moves and asset records in **NetBox**.

TECHNICAL SKILLS

Operating Systems & Virtualization:	RHEL 9, Ubuntu 24.04, Windows Server 2022, VMware vSphere, vCenter
Cloud Platforms:	AWS (EC2, S3, IAM basics)
Infrastructure as Code:	Ansible, Terraform (vSphere provider), Packer (basics), Git
Containers & Kubernetes:	Docker, Kubernetes (learning), Rancher
Networking & Load Balancing:	TCP/IP, DNS, DHCP, VLANs, Cisco Meraki, F5 BIG-IP (basics)
Storage & Backup:	Veeam, NetApp ONTAP, NFS, iSCSI
Monitoring & Scripting:	Prometheus, Grafana, Bash, Python, ServiceNow, NetBox

EDUCATION

Red Hat — Red Hat Certified System Administrator (RHCSA) — Online · Feb 2025

Queens College, CUNY — B.S. in Computer Science — Queens, NY · Aug 2018 to May 2022

WORK EXPERIENCE

NBCUniversal — Associate Engineer, Compute & Virtualization — New York, NY · Sep 2024 to Present

- Built and patched **RHEL 9** and Windows Server VMs on **VMware vSphere** clusters for news and sports apps, and moved **140** VMs off hosts going out of vendor support with no unplanned downtime.
- Turned the team's manual VM build checklist into an **Ansible** playbook and a **Terraform** vSphere module, cutting a standard Linux build from 2 days to **3 hours**.
- Took over nightly **Veeam** job checks and monthly restore tests for 310 VMs, raising the share with a verified restore point from 88% to **99%**.
- Added **Prometheus** node exporters and **Grafana** alerts for datastore space and host memory, so the team caught **5** filling datastores a week before they ran out.
- Built **Rancher** test clusters on vSphere VMs for the team's **Kubernetes** pilot and scripted the node setup, so adding a worker node went from half a day to **40 minutes**.

Vimeo — IT Support Specialist — New York, NY · Jun 2022 to Aug 2024

- Moved the New York office to new **Cisco Meraki** switches and access points with separate VLANs for staff, guests and AV gear, cutting Wi-Fi tickets by **60%**.
- Retired **11** end-of-life servers from the office server closet and moved their file and print jobs to Google Workspace and a small NAS, with a written plan for each cutover.
- Set up nightly backups of the office NAS with an offsite copy and ran quarterly restore tests, bringing the time to restore a lost shared folder from 2 days to **3 hours**.