

Brian Filliat

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🌐 <https://www.linkedin.com/in/brian-filliat2>

🐙 <https://github.com/brianfilliat/VSCoDe-Python-2026>

SUMMARY

Senior Cloud and Infrastructure Engineer with over 20 years of hands-on experience designing, operating, and optimizing enterprise-scale infrastructure across on-premises and hybrid cloud environments. Strong background in distributed storage systems, SAN/NAS platforms, virtualization, and cloud-native infrastructure supporting large-scale production workloads. Experienced in leading complex storage migrations, modernizing legacy environments, and integrating software-defined storage solutions within cloud and containerized platforms. Proficient in AWS architecture (EC2, VPC, IAM, S3, RDS, EKS/ECS, CloudWatch, Landing Zones), Infrastructure as Code (Terraform, CloudFormation, CDK), and automation using Python and PowerShell to improve scalability, reliability, and operational efficiency. Deep understanding of networking, identity management, security controls, and compliance in hybrid environments. Known for strong troubleshooting skills, root cause analysis, and collaboration with cross-functional engineering teams to maintain highly available, resilient infrastructure.

EXPERIENCE

Cloud Platform Engineer | Microland | Remote | December 2022 – December 2025

- Designed, implemented, and maintained AWS infrastructure using Infrastructure as Code (Terraform, CloudFormation, CDK), enabling repeatable, scalable, and compliant cloud deployments across multi-environment architectures.
- Architected secure, production-grade AWS VPC environments with public/private subnet segmentation, NAT gateways, route tables, and site-to-site VPN connectivity between on-premises data centers and cloud infrastructure.
- Managed and optimized core AWS services including EC2, IAM, S3, RDS, EKS/ECS, CloudWatch, and Landing Zones, enforcing least-privilege access controls (SSO/SAML), monitoring resource utilization, and maintaining security best practices.
- Automated infrastructure provisioning and operational workflows using Python, PowerShell, and shell scripting, integrating with APIs and CI/CD pipelines (Jenkins, GitLab) to streamline deployments and reduce configuration drift. Leveraged Chef, Puppet, and Ansible for configuration management and automated provisioning across multi-environment cloud architectures.
- Deployed and supported containerized workloads using Kubernetes and Docker, with experience integrating storage backends including Ceph and Longhorn to support stateful cloud-native applications.
- Contributed to hybrid cloud modernization initiatives, migrating workloads from legacy storage platforms (Hitachi VSP, XtremIO X1) to PowerMax and cloud-integrated environments while ensuring high availability and performance continuity.
- Installed and administered VMware ESXi 7/8 and virtualized environments, supporting enterprise-scale clusters (1000+ nodes) and bridging traditional virtualization with cloud-native platforms.
- Developed CLI-based automation and configuration tooling using Python, PowerShell, and JavaScript within Visual Studio Code environments, and applied Chef, Puppet, and Ansible to enforce consistent server configurations, improving deployment velocity and operational consistency.
- Deployed and supported enterprise storage platforms (Pure Storage, HPE, NetApp) alongside Software-Defined Storage solutions (Ceph), strengthening distributed storage reliability within cloud and hybrid infrastructures.

Platform Engineer, Storage Delivery | DELL Technologies | Remote | November 2021 - November 2022

- Managed and maintained enterprise storage platforms including Dell EMC PowerScale (Isilon), PowerMAX, VxRail, and Data Domain for a large-scale institutional environment, ensuring high availability, performance optimization, scalability, and compliance with data governance policies.
- Administered and optimized PowerScale/Isilon clusters, configuring features such as SmartPools, NFS exports, SyncIQ replication, and DataIQ analytics, while performing non-disruptive code upgrades and implementing security and compliance controls.
- Proactively monitored infrastructure health and capacity, performing advanced troubleshooting and root cause analysis to prevent service disruption in mission-critical environments.
- Automated storage and backup administration workflows using Python, PowerShell, Chef, Puppet, and Ansible, integrating with vendor APIs to reduce manual intervention, improve operational efficiency, and standardize repeatable processes.
- Installed, configured, and supported Pure Storage FlashArray systems, coordinating production backup schedules and restore operations to ensure data integrity and minimal business impact.
- Partnered with account and engineering teams to develop internal-facing technical content (hands-on labs, whitepapers, technical articles, and video walkthroughs), enhancing customer understanding of storage architecture, performance tuning, and best practices.

Storage-Cloud Engineer | UNISYS | Remote | November 2013 – November 2021

- Automated VMware ESXi 6.5 datastore provisioning using PowerShell, Chef, Puppet, and Ansible, standardizing storage deployment workflows and reducing manual configuration effort across enterprise environments.
- Led non-disruptive enterprise storage migrations from VMAX 40K to VMAX AFA and PowerMax platforms, ensuring data integrity and minimal downtime during large-scale production transitions.
- Installed and commissioned VMAX 950F and VPLEX VS6 systems, improving storage scalability, availability, and performance across mission-critical workloads.
- Engineered and administered AIX LPAR virtualization on IBM Power Systems using Dual VIOS and HMC, configuring VSCSI and NPIV to optimize resource allocation and virtualization stability.
- Migrated complex workloads, including Oracle RAC clusters, from VMAX 40K to XtremIO X2-R and legacy DMX-4 systems to VMAX using Open Replicator and LVM, maintaining operational continuity throughout transitions.
- Performed pre- and post-migration validation, troubleshooting, and root cause analysis, collaborating with AIX and application teams while adhering to ITIL-based change management processes.
- Designed and implemented AWS S3-to-Glacier lifecycle policies and automated archival workflows to optimize storage costs while maintaining redundancy and compliance standards.
- Integrated hyper-converged infrastructure within Dell EMC VxRail clusters, accelerating deployment timelines and delivering scalable compute and storage architecture for enterprise workloads.

Storage-Cloud Engineer | IBM | June 2010 - September 2013

- Installed, validated, and supported enterprise all-flash storage platforms including VMAX3 250F/450F/850F, XtremIO, Data Domain, and ProtectPoint, ensuring high-performance and resilient storage solutions for production environments.
- Implemented converged and hyper-converged infrastructure solutions (VBlock) integrating Cisco UCS, VMware ESXi, and EMC Unity (300/400/500/600 series), delivering scalable compute and storage architectures.
- Provisioned and administered VMAX and XtremIO arrays, including initiator group configuration, masking views, SRDF replication, and performance troubleshooting across directors and port groups.
- Managed SAN infrastructure including Brocade switches (FOS upgrades, zoning, FC alias configuration), maintaining stable and optimized Fibre Channel environments.
- Engineered and administered AIX LPAR virtualization on IBM Power Systems using Dual VIOS and HMC, configuring VSCSI and NPIV to support enterprise virtualization and SAN boot environments.
- Virtualized DS, XIV, and Symmetrix arrays behind IBM SAN Volume Controller (SVC 6), implementing thin provisioning and storage abstraction strategies to improve flexibility and capacity utilization.
- Designed and deployed multi-node HACMP/PowerHA clusters within AIX LPAR environments, leveraging advanced Power Virtualization features to ensure high availability and fault tolerance.
- Configured FlashCopy, Global Mirror, and Metro Mirror replication across SVC environments, supporting disaster recovery and business continuity requirements.
- Configured and managed Symmetrix SRDF/A and Adaptive Copy replication, updating RA groups and establishing replication pairs for critical database workloads, including EPIC systems.
- Utilized Chef, Puppet, and Ansible for automated configuration management and infrastructure provisioning, ensuring consistent and repeatable deployments across enterprise storage and server environments.

EDUCATION

- Master of Science (MS) in Information Systems, University of Colorado at Denver
- August 1998 - 2001
- Bachelor of Science in Information Systems, Metropolitan State University of Denver
- August 1994 - 1998

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS CSA-Professional
- Cisco Certified CCNF
- Veritas Certified Specialist
- Microsoft Certified: Azure Administrator Associate (AZ-104)
- Microsoft Certified: Endpoint Administrator Associate (MD-102)

- Microsoft Certified: Identity and Access Administrator Associate (SC-300)
- CompTIA Linux+
- Red Hat Certified System Administrator (RHCSA)
- Brocade Certified Fabric Professional
- Dell EMC:
 - E05-001 Information Storage and Management v3
 - E20-807 Expert VMAX All Flash and VMAX3 Solutions Exam
 - E05-335 Symmetrix Solutions Specialist
 - E20-307 VMAX3 Solutions Specialist

Technical SKILLS

- Cloud & Infrastructure as Code (IaC)
 - Cloud Platforms: Amazon Web Services (AWS), Microsoft Azure, OpenStack
 - AWS Core: EC2, VPC, IAM, S3, RDS, CloudWatch, Landing Zones
 - IaC & Provisioning: Terraform, AWS CloudFormation, AWS CDK
 - Configuration & Version Control: GitHub, Git, Software-Defined Storage (ViPR)
 - Orchestration & Virtualization
 - Containers: AWS EKS (Kubernetes), ECS, Docker
 - Virtualization: VMware ESX/vSphere, VPLEX, Solaris Zones/LDOMs
 - Automation/Scripting: Python, PowerShell, Shell Programming (Bash), Chef, Puppet, Ansible
 - Enterprise Storage & Data Resilience
 - Primary Storage: Dell EMC PowerMax 8050, VMAX (AFA/2/3), DMX Series, Unity, CLARiiON, Symmetrix
 - Data Protection: Data Domain VTL, IBM TS7650 ProtecTIER (Dedupe), IBM Tape Libraries (TS3500, TS4500)
 - Replication & DR: EMC SRDF/A, TimeFinder, RecoverPoint, SnapView, MirrorView, SAN Copy, Open Replicator
 - Path Management: EMC PowerPath, Veritas DMP, MPIO
 - Storage Networking & Continuity
 - Protocols: Fibre-Channel (FC), iSCSI, NFS, CIFS, MPFS
 - Networking: SAN Security, Service Continuity Management, Storage Networking Optimization
 - Management: EMC Unisphere, Solutions Enabler (SYMCLI), EMC Control Center
 - Systems & Database Ecosystem
 - Operating Systems: Red Hat & SUSE Linux, AIX, HP-UX, SUN Solaris, Windows Server
 - Volume & File Systems: VxVM, LVM, VxFS, JFS, UFS
 - Enterprise Platforms: Oracle eBusiness Suite (11i/R12), SAP, SQL Server, UDB/DB2, MS Exchange, SharePoint

Websites

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<https://www.hackerrank.com/profile/brianfilliat>

<https://ascto.com/>