AMRITA NAIR

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Experience

Staff Engineer | VMware | 07/19 - Current

- Leading the QE efforts for the [Tanzu Kubernetes Grid Support](#) for VMware Cloud (VMC) on AWS. This product will allow customers to run, monitor and manage containers and virtual machines on VMware Cloud on AWS.

Test Automation Engineer | NetApp | 06/10 - 06/19

NetApp Data Availability Service (NDAS)

Lead for test case development, test automation and execution of the backend infrastructure required to enable the NDAS catalog management, registration and SQS messaging feature.
- Delivered the functional and integration test plan and test cases
- Automated NAS workloads and SQS messaging service validation libraries in python.
- Key contributor to the cloud resident orchestrator simulator implemented as a rest server using Python/Django/Elasticsearch.
- Implemented end-to-end test automation for all the above features.

XCP - NetApp's File-based data migration tool

Led a team of 4 on the functional testing effort for the NFS and CIFS client software of the XCP tool used heavily by customers.

Data protection solution for SolidFire, NetApp's all-flash array

Led a team of 3 on the testing effort for the Data Protection solution for SolidFire using SnapMirror - a snapshot based replication technology.
- Delivered the functional test plan, system test plan, and test cases.
- Guided the automation framework development for ONTAP command and SolidFire API support in Python.
- Automated key SnapMirror test cases with SolidFire in Python.
- Trained and mentored the Codeline Stability and Regression team on product knowledge, failure triage and automation suite for this feature.

Backup to NetApp AltaVault, Cloud-integrated storage

Led the testing effort for the backup/restore of data with efficient backup to cloud using NetApp SnapMirror to AltaVault. Also, led the feature interoperability with MCC - NetApp's synchronous mirroring solution. Delivered the planning, test automation, test execution and regression suites for the feature.

Snapmirror Sync/Async Replication and SnapVault

Test automation engineer for validating the Snapmirror technology on MetaWafl, NetApp's hierarchical reference counted extent based file system.
- Designed and automated SnapMirror test cases to validate the backup and disaster recovery workflows
- Created and designed a self-healing, push-button automated functional suite, capable of recovering from failed tests or system crashes. This improved hardware usage by 72% and eliminated all reruns (previously 6 per build).

MetroCluster Cluster-Mode (MCC)

Test automation engineer for validating MCC - NetApp's synchronous mirroring solution for high availability and disaster recovery with near zero RTO and RPO.
- Designed and implemented automation libraries and test cases for several features including configure/unconfigure metrocluster, planned and unplanned switchover, and system health check.
- Drove hardware-based end-to-end tests of customer scenarios for MetroCluster.

Tools Development

- Integrated several performance counters into NetApp's Lightweight Monitoring and Reporting (LMR) tool to poll memory and performance statistics of ONTAP. These features proved critical to debug customer escalations due to memory leaks and are widely used across QA teams.
- Designed and developed a tool to estimate functional coverage by parsing management commands in controller logs.
- Mentored an intern on developing a web portal for limits maintenance and reporting across all NetApp products using the Symfony framework.

Education

- M.S. Computer Science - Northeastern University, Boston, MA
- B.E. Information Technology - Charotar Institute of Technology, Naidad, India

Awards And Honors

- 2 spot bonus at VMware for successfully delivering the Tanzu on VMC-AWS product with high quality.
- 4 awards and 2 letters of appreciation at NetApp for commitment to excellence and outstanding contributions to test automation and for delivering various data protection solutions.