HPE composable systems enable Government of Andhra Pradesh to improve citizen services

HPE Synergy streamlines application development for 200-plus departments

Democratically elected governments have a fundamental requirement to provide the citizens whom they represent with meaningful and efficient services. This includes everything from managing land records, to overseeing health and welfare services, furthering educational opportunities, maintaining infrastructure, and improving overall quality of life. The Government of Andhra Pradesh in South India recognizes the great responsibilities it carries, and has responded with a bold new initiative to transform the way government services are managed and delivered.

Dubbed ePragati (which translates as e-progress), the initiative is focused on digitalizing government services with the centerpiece being a citizen-centric portal where people can access services on-demand. Whether requesting a building permit, applying for a scholarship, or submitting a claim for welfare benefits, citizens have one central point of interaction with the full range of government services at their disposal. In addition, the ePragati project will enable internal government departments to securely share data and streamline development of new applications and services with a level of efficiency never before possible.
“We evaluated several options, including cloud services such as IaaS and PaaS. Ultimately, we were convinced that **composable infrastructure** was the best choice as it offered the agility to run both cloud-native and traditional workloads on a common platform, and manage everything through a single pane of glass.”

– Shri N. Bala Subramanyam, CEO of ePragati, Government of Andhra Pradesh
Delivers cloud-like agility on-premises

The ePragati project has been conducting a phased rollout since mid-June, 2018. To date, the government has deployed 12 HPE Synergy frames populated with 112 HPE Synergy 480 Gen10 Compute Modules built on the Intel® Xeon® Scalable series processors. The platform supports both Docker containers and approximately 500 VMware® virtual machines running a broad range of home-grown applications, PEGA customer engagement system, and databases such as PostgreSQL. The government also deployed HPE 3PAR StoreServ 8000 Storage with a mix of flash and SAS drives to provide both high performance and high capacity for the government’s diverse requirements.

The government engaged HPE Pointnext to install and configure the HPE solution, helping to smooth the transition from its legacy blade and rack server environment to the new composable infrastructure. In addition, HPE Pointnext is helping Akula and his team integrate Red Hat® OpenShift with HPE Synergy. This will provide a containerized application platform based on Docker and Kubernetes that gives the government’s application developers a cloud-like platform-as-a-service experience, but delivered on-premises.

HPE Synergy Image Streamer plays a central role in deploying OpenShift across the infrastructure, and will enable IT to automatically scale the infrastructure up and down as workload demands change throughout project development lifecycles.

Saves IT time while accelerating delivery of citizen services

With HPE Synergy, the Government of Andhra Pradesh has an agile platform for sharing data across hundreds of departments, ensuring consistency and efficiency. Yet it also has the flexibility to dynamically provision resources to support each department’s individual workload requirements without compromising one for another. These capabilities have been central to accelerating application development government-wide.

“Through HPE OneView we can use HPE Synergy Composer to build templates comprised of any combination of resources in the composable infrastructure to match specific workload requirements,” Akula notes. “HPE Synergy Image Streamer then allows us to automate delivery of those system images to developers in a fraction of the time it would take provisioning individual components. The faster we can enable each department with the infrastructure resources they need, the faster they can bring new service capabilities to our citizens.”
“HPE GreenLake Flex Capacity provides us with an agile, cloud-like ability to scale our resources up or down on demand, and manage our costs based just on the resources consumed instead of facing large capital expenditures.”

– Shri N. Bala Subramanyam, CEO of ePragati, Government of Andhra Pradesh

Customer at a glance

Solution
Composable infrastructure to streamline application development and deliver seamless citizen services

Hardware
- HPE Synergy
  - HPE Synergy 480 Gen10 Compute Modules
  - HPE Synergy Composer
  - HPE Synergy Image Streamer
- HPE 3PAR StoreServ 8000 Storage
- Intel Xeon Scalable series processors

Software
- HPE OneView
- Red Hat OpenShift

HPE Pointnext services
- HPE Installation and Startup Services
- HPE GreenLake Flex Capacity
- HPE Datacenter Care

Akula further points out that HPE GreenLake Flex Capacity provides the added advantage of helping the government avoid overprovisioning while gaining more predictable costs. “HPE GreenLake Flex Capacity provides us with an agile, cloud-like ability to scale our resources up or down on demand, and manage our costs based just on the resources consumed instead of facing large capital expenditures.”

Ongoing administration of the composable infrastructure is also streamlined with HPE OneView. A single interface to manage compute and storage greatly reduces the time IT staff spend on operations, allowing them to focus on more strategically important tasks. Moreover, Akula and his colleagues have a central dashboard to monitor workload demands across each department and ensure appropriate resources are available.

Knowing that citizen demands and government priorities may change over time, the Government of Andhra Pradesh can now adapt to such changes more easily and cost-effectively. Ultimately, leveraging HPE Synergy and HPE GreenLake Flex Capacity to digitalize internal operations allows the government to fulfill its objective of delivering services that are more accessible and beneficial to the citizens of Andhra Pradesh.

Learn more at
hpe.com/synergy
hpe.com/greenlake

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