

MAMPU accelerates government application delivery with Red Hat



Software

Red Hat® Cloud Suite
Red Hat® OpenShift®
Container Platform
Red Hat Virtualization
Red Hat CloudForms®
Red Hat Ceph® Storage

Services

Red Hat Consulting
Red Hat Training

The Malaysian Administrative Modernisation and Management Planning Unit (MAMPU) provides IT services to Malaysia's public sector agencies. To deliver applications to internal users and citizens faster, the agency sought to enhance its existing development capabilities with open source technology. Using Red Hat OpenShift Container Platform and other Red Hat virtualization and cloud solutions, MAMPU minimized configuration and resource challenges to improve staff productivity, support more efficient DevOps work, and ultimately deliver services days faster.



Government

1,000 employees

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Puan Hanissull

Deputy Director, Applications Development Division,
Malaysian Administrative Modernisation and
Management Planning Unit (MAMPU)

Benefits

- Accelerated application development and deployment time from one week to three days
- Improved cross-team collaboration with DevOps model
- Gained new OpenShift and container technology skills with Red Hat Training



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Using open source to speed public sector service development

The Malaysian Administrative Modernisation and Management Planning Unit (MAMPU) is the government agency responsible for modernizing Malaysia’s public service administration and transforming how services are delivered to citizens.

To lead the nation’s IT development in the public sector, MAMPU’s key mission is to enhance IT system and application development capabilities by taking advantage of open source technologies. One of MAMPU’s initiatives is the Open Source Development and Capabilities (OSDeC) program, offering open source platforms for government agencies to host their applications in its IT infrastructure, supported by coaching and training activities.

To complement the government’s existing data center capabilities, MAMPU sought an open source solution that would support faster development and deployment of new applications. This solution would be supported by a shift to a DevOps approach to improve IT teams’ productivity.

“Previously, we used resources provided by our data center and built our applications on traditional virtual machines,” said Puan Hanissull, Deputy Director of the Applications Development Division at MAMPU. “But our growth was constrained by funding availability and a lack of staff with Linux®, middleware, and cloud skills.”

Adopting an enterprise open source container solution

MAMPU decided to deploy Red Hat OpenShift Container Platform, part of Red Hat Cloud Suite, as the technology foundation of its DevOps-based application development approach. OpenShift Container Platform provides a Kubernetes-based platform for MAMPU to manage its private cloud environment.

“Red Hat OpenShift Container Platform met all of our requirements for an open source platform. A major factor in our choice was how easy OpenShift would be to deploy,” said Hanissull.

The agency also deployed two other solutions within Red Hat Cloud Suite: Red Hat Virtualization, used for server virtualization, and Red Hat CloudForms, a cloud management solution that provides control through a user-friendly dashboard. In addition, deploying Red Hat Ceph Storage in its data center provides MAMPU with stable, flexible data storage for its cloud infrastructure, containers, and virtual machines (VMs).

Working with Red Hat Consulting, MAMPU has now migrated e-Rating, a public-facing application that lets the citizens rate services, and two internal applications—including an OSDeC staff training portal—to Red Hat OpenShift Container Platform.

“The Red Hat project team was responsive, and Red Hat Consulting did a lot for us. We couldn’t have completed the project without them,” said Hanissull. “The consultants helped us deploy the solution and maximize its value by ensuring our staff could handle the tasks themselves in the future.”

Optimizing processes and skills to improve services

Reduced time to market

Its new container-based private cloud environment has helped MAMPU reduce time to market for new applications. Previously, application creation and deployment to production environments took a week for MAMPU's team of ten developers, usually split into project teams working together on 3–4 projects. This development team would often experience configuration issues when deploying to the test environment.

Now, the same work can be completed in three days—and is sometimes completed in just ten minutes. By standardizing its development, testing, and production environments on OpenShift, MAMPU's teams can use container images to deploy applications across environments, mitigating configuration issues and speeding time to market for new applications and services.

"OpenShift Container Platform has helped us optimize our resource access by sharing resources and infrastructure," said Hanissull. "We've improved productivity while reducing our system development costs. By streamlining environment configuration and management, our staff can move on to other development projects."

Improved collaborative work with DevOps

Its new DevOps approach has already helped MAMPU's development and operations teams more effectively work together to develop, test, and deploy new services faster.

Support from Red Hat's flexible, responsive IT solutions has helped the agency ensure access to the resources and environments that DevOps projects need to successfully co-create applications. For example, role-based access ensures a developer can use the necessary container for a project without requiring access to an entire VM or environment.

"We're taking the time to use what we've learned about DevOps from Red Hat Consulting to build the right cross-functional team for each project," said Hanissull. "Our OpenShift environment also helps shorten adoption time for DevOps by simplifying developer access. They no longer need to worry about underlying infrastructure."

Gained container platform skills with expert-led training

Several MAMPU team members attended classroom-based instruction from Red Hat Training to help them take advantage of their new cloud and container solutions with an introduction to OpenShift technology.

"Before the training, our team had no knowledge of the platform," said Hanissull. "To complement their existing skills, knowledge, and resources, they received detailed training from Red Hat on containers, Kubernetes, OpenShift administration, enterprise OpenShift development, hybrid cloud management with CloudForms, and Ceph Storage architecture and administration."



Inspiring more agencies to move to OpenShift

MAMPU plans to migrate all of its existing applications to Red Hat OpenShift Container Platform and establish it as the standard development environment for new applications.

"Any new applications created in-house must be now developed using OpenShift, and we are encouraging other public sector agencies to follow our approach," said Hanissull. "It's still early, but our migration project with Red Hat has already been successful. We anticipate that the number of users for the platform will grow exponentially."

About MAMPU

Established in 1966, the Malaysian Administrative Modernisation and Management Planning Unit (MAMPU) is a central agency responsible for the modernization and transformation of public service administration in Malaysia. MAMPU carries out six major roles: as a catalyst for change in administrative and management services in the public sector, as the leader in developing ICT for the public service sector, as consultants in management organization and ICT for the public service sector, as facilitator in the implementation of modernization and transformation programs in the public sector delivery system, as researcher in administrative modernization and management planning for the public sector, and as promoter of government services to the public.

About Red Hat



Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.



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North America
1 888 REDHAT1
www.redhat.com

**Europe, Middle East,
and Africa**
00800 7334 2835
europe@redhat.com

Asia Pacific
+65 6490 4200
apac@redhat.com

Latin America
+54 11 4329 7300
info-latam@redhat.com

redhat.com
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