

**Capacity Development Webinar on
“Accelerating Digital Transformation for Sustainable and
Resilient Recovery from COVID-19”**



**SESSION 3: PROMOTING GLOBAL DIGITAL COOPERATION FOR
SOLIDARITY**

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Session 3: Promoting Global Digital Cooperation for Solidarity

Mr Chan Cheow Hoe, Government Chief Digital Technology Officer

- 1. Creating a Global Digital Government community to exchange ideas and drive meaningful action*
- 2. Interoperability of Government products and practices (eg. Cross recognition of Digital Identity, Cloud and Data practices)*
- 3. Opensourcing during the COVID-19 Crisis*

1. Creating a Global Digital Government community to exchange ideas and drive meaningful action



- Started in 5 years ago in 2016
- Members from over 10 countries
- Workgroup on Digital Identity, Cloud and Data Practices new

- Collaborative events with ASEAN member states on Digital transformation

Eg. Digital Transformation with Vietnam Ho Chi Minh City Government,
Digital Identity with Indonesia Government

STACK 2020

READY TO LEVEL UP?

DEVELOPERS CONFERENCE

GET STACK

LEVEL UP!

1 - 3 DECEMBER 2020

GUEST OF HONOUR



DR VIVIAN BALAKRISHNAN
MINISTER FOR FOREIGN AFFAIRS
AND THE MINISTER-IN-CHARGE
OF THE SMART NATION INITIATIVE

FEATURED SPEAKERS



MARTIN FOWLER
THOUGHTWORKS



GENE KIM
IT REVOLUTION



NG CHEE KHERN
PERMANENT SECRETARY
(SMART NATION AND
DIGITAL GOVERNMENT)



CHAN CHEOW HOE
GOVERNMENT CHIEF
DIGITAL TECHNOLOGY OFFICER



WILL GRANNIS
GOOGLE CLOUD



MITCHELL HASHIMOTO
HASHICORP



JEFF BARR
AMAZON WEB SERVICES



IRINA CHIEW
THOUGHTWORKS

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go.gov.sg/stackxtelegram

STACK is the largest government-led developers event in Singapore that connects government, industry and the tech community.

2. Interoperability of Government products and practices

www.developer.gov.sg

1

Discover Products

List of government products – high level overview of features, benefits etc.

2

Evaluate Products

Understanding technical pre-requisites and hosting details

3

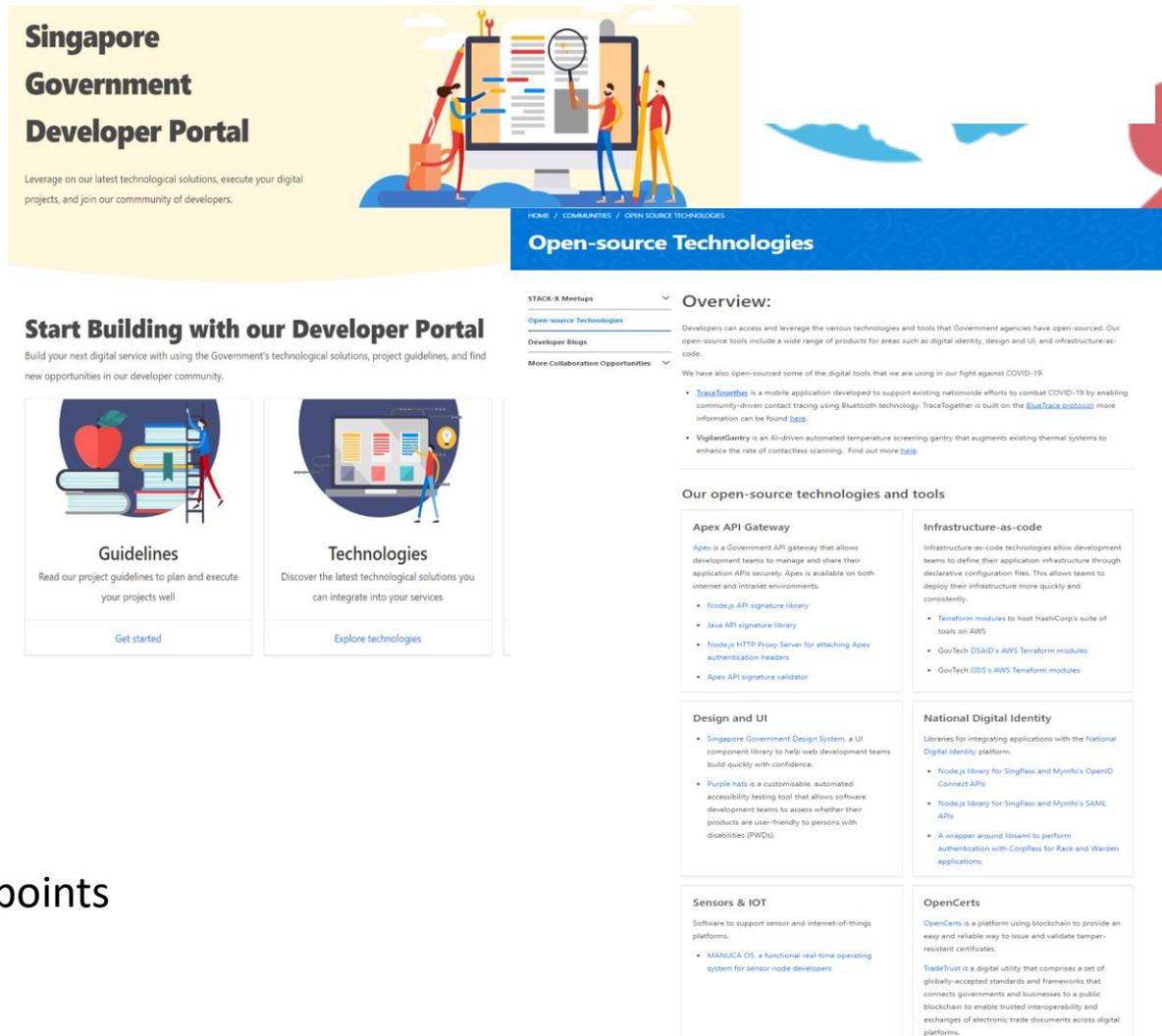
Apply products

Detailed documentation with onboarding requirements

4

Engage & Celebrate

Engaging the community to share success and learning points



Singapore Government Developer Portal

Leverage on our latest technological solutions, execute your digital projects, and join our community of developers.

HOME / COMMUNITIES / OPEN SOURCE TECHNOLOGIES

Open-source Technologies

STACK-X Meetups
Open-source Technologies
Developer Blogs
More Collaboration Opportunities

Start Building with our Developer Portal

Build your next digital service with using the Government's technological solutions, project guidelines, and find new opportunities in our developer community.

Guidelines
Read our project guidelines to plan and execute your projects well.
Get started

Technologies
Discover the latest technological solutions you can integrate into your services.
Explore technologies

Overview:

Developers can access and leverage the various technologies and tools that Government agencies have open-sourced. Our open-source tools include a wide range of products for areas such as digital identity, design and UI, and infrastructure-as-code.

We have also open-sourced some of the digital tools that we are using in our fight against COVID-19.

- TraceTogether** is a mobile application developed to support existing nationwide efforts to combat COVID-19 by enabling community-driven contact tracing using Bluetooth technology. TraceTogether is built on the [BlueTrace protocol](#), more information can be found [here](#).
- VigilantGantry** is an AI-driven automated temperature screening gantry that augments existing thermal systems to enhance the rate of contactless scanning. Find out more [here](#).

Our open-source technologies and tools

Apex API Gateway Apex is a Government API gateway that allows development teams to manage and share their application APIs securely. Apex is available on both internet and intranet environments. <ul style="list-style-type: none">Node.js API signature libraryJava API signature libraryNode.js HTTP Proxy Server for attaching Apex authentication headersApex API signature validator	Infrastructure-as-code Infrastructure-as-code technologies allow development teams to define their application infrastructure through declarative configuration files. This allows teams to deploy their infrastructure more quickly and consistently. <ul style="list-style-type: none">Terraform modules to host HashiCorp's suite of tools on AWSGovTech DSAIG's AWS Terraform modulesGovTech GDS's AWS Terraform modules
Design and UI <ul style="list-style-type: none">Singapore Government Design System, a UI component library to help web development teams build quickly with confidence.Purple hats is a customisable, automated accessibility testing tool that allows software development teams to assess whether their products are user-friendly to persons with disabilities (PWDs).	National Digital Identity Libraries for integrating applications with the National Digital Identity platform. <ul style="list-style-type: none">Node.js library for SingPass and MyInfo's OpenID Connect APIsNode.js library for SingPass and MyInfo's SAML APIsA wrapper around libamnt to perform authentication with ComPass for Rack and Warden applications.
Sensors & IOT Software to support sensor and internet-of-things platforms. <ul style="list-style-type: none">MANUCA OS, a functional real-time operating system for sensor node developers	OpenCerts OpenCerts is a platform using blockchain to provide an easy and reliable way to issue and validate tamper-resistant certificates. TradeTrust is a digital utility that comprises a set of globally-accepted standards and frameworks that connects governments and businesses to a public blockchain to enable trusted interoperability and exchanges of electronic trade documents across digital platforms.

3. Opensourcing during the COVID-19 Crisis

[Developer.gov.sg/communities/open-source-technologies](https://developer.gov.sg/communities/open-source-technologies)

SPOTON



Supply**Ally**



Trace**Together**

Token & App

