Objective: Enable portability and semi-automatic management of applications across clouds regardless of provider platform or infrastructure thus expanding customer choice, improving reliability, and reducing cost and time-to-value.

This objective could have been satisfied by requiring the use of the same cloud orchestration tool on multiple cloud implementations, but this demonstration shows something even more impressive:

Demonstrating: different cloud orchestration tools from different vendors all interpreting and seamlessly running the same TOSCA service templates in the same way.

During the demo, a Customer Relationship Management (CRM) application along with its relational database is described as a TOSCA Service Template and seamlessly exchanged between cloud orchestration tools and runtimes offered by different vendors.

Benefits: Using TOSCA service templates, enterprise customers can easily move their applications from one cloud to another and orchestrate them using the expert knowledge the application developers have built into them.
What are some of the key features of TOSCA?

- **Interoperable Description of**
  - Applications, their component Services and Artifacts
  - Platform and Infrastructure services
  - Relationships between these services
  - Management and Operational behavior of these services

- **facilitates Solution Portability**
  - Portable deployment to any cloud that can orchestrate TOSCA service templates
  - Simplify migration of existing customer apps to cloud
  - Dynamic, flexible scaling and bursting of multi-cloud applications

- **enables Software Defined Environments (SDEs)**
  - Template contents provide the means to optimize the underlying cloud infrastructure

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**TOSCA Service Templates ...**

**Complete Topology Modeling**

Allow developers to describe the topology of their applications and encapsulate their expert knowledge, including service configurations, policies and dependencies.

**Full Lifecycle Orchestration**

Go beyond simple deployment; services can provide instructions for any lifecycle operations enabling precise orchestration and control of application management tasks.

**Service Composability**

Support the ability to substitute logical parts of applications through composable service templates providing choice in both service vendor and implementation.

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Join the TOSCA Technical Committee

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