

- Deploy to Azure or to on-premises datacenters that run Windows or Linux with zero code changes. Write once, and then deploy anywhere to any Service Fabric cluster.
- Develop scalable applications that are composed of microservices by using the Service Fabric programming models, containers, or any code.
- Develop highly reliable stateless and stateful microservices. Simplify the design of your application by using stateful microservices.
- Use the novel Reliable Actors programming model to create cloud objects with self-contained code and state.
- Deploy and orchestrate containers that include Windows containers and Linux containers. Service Fabric is a data aware, stateful, container orchestrator.
- Deploy applications in seconds, at high density with hundreds or thousands of applications or containers per machine.
- Deploy different versions of the same application side by side, and upgrade each application independently.
- Manage the lifecycle of your applications without any downtime, including breaking and nonbreaking upgrades.
- Scale out or scale in the number of nodes in a cluster. As you scale nodes, your applications automatically scale.
- Monitor and diagnose the health of your applications and set policies for performing automatic repairs.
- Watch the resource balancer orchestrate the redistribution of applications across the cluster. Service Fabric recovers from failures and optimizes the distribution of load based on available resources.