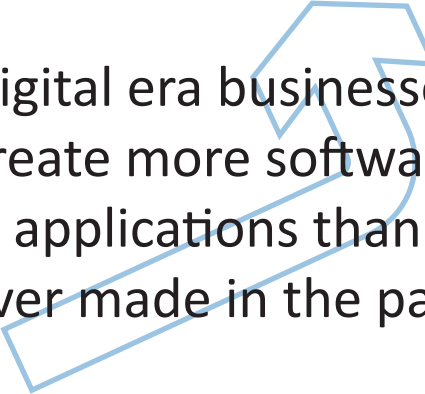


The Business need of IT Infrastructure Automation

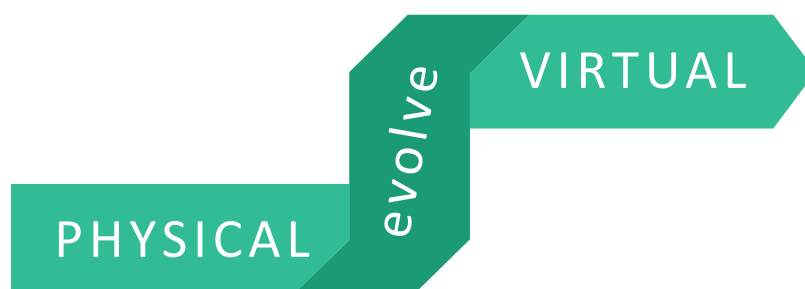
Businesses across Industry verticals and sizes demand higher efficiency in all facets. Information Technology is an important part of it; as it enables, augments businesses to thrive. Growing businesses that rely on IT require quicker turn around in creating and launching newer applications to enhance revenue, add customers and grow brand value. Businesses of digital era create more software applications than ever made in the past.

Business applications reside and rely on sound IT Infrastructure. The need, size and type of IT Infrastructure also grows inline with the business applications.



Digital era businesses create more software applications than ever made in the past

Earlier to recent days the IT Infrastructure were physical systems, which evolved into virtual systems. Thanks to the proliferation of Virtualization technology, today the IT Infrastructure is a Virtual Machine or a Container that resides on on-premise Data Centre or in Cloud. The characterization of the IT Infrastructure from hardware to software defined has enabled high efficient and quicker operations.



Software Defined Infrastructure

SDI has enabled infrastructure to be treated as code, be it in design, operation or retiral phase.

In physical systems world, integrating physical servers, staging, deploying operating systems, installing application software, provisioning services, managing configurations, enabling storage and network connectivity, controlling security rules are sequential manual tasks. With higher growth of business applications in short time, the same is not a good fit to scale across a large set.



In SDI, all the fore said tasks shall be codified and applied on to a large set of systems with the help of configuration management and provisioning tools. IT operations are expected to bring up, run and manage infrastructure in an expedited way for a broad set of business applications. In physical systems world, the infrastructure creation alone would continue to remain manual as it is tied to hardware, whereas the rest of all operations could be codified. That yields a very bigger benefit in sustaining the existing physical infrastructure in optimal way till retiral.

In addition, it is expected that IT infrastructure is always available, service levels are up to the mark, systems are reliable, data integrity is addressed well and security is intact. While these paint a rosy picture of thriving business, the hard truth is that IT operations team size does not grow linearly inline with the growth of business applications. Even that is not a practically feasible ask also, to maintain frugal IT operations. IT Infrastructure management done in a manual way or by creating custom one off scripts with smaller purposed tools is predominantly the way of gap fixing operation found in many organizations. The problem associated with this approach is, it is individual centric and know how bound. In addition these are IP or user bound, thus managing it remotely becomes a challenge.

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IT operations team size does not grow linearly inline with growth of business applications on account of maintaining frugality, efficiency.

BUSINESS NEED

AVAILABILITY 
 SERVICE LEVELS 
 DATA INTEGRITY 
 SECURITY 

PROBLEMS

MANUAL - TIME
 ONE OFF SCRIPT
 INDIVIDUAL-
 DRIVEN
 KNOW HOW
 REMOTE MGMT

In many environments Infrastructure is upgraded to be software-defined, but management of Infrastructure is still the rudimentary manual way. **How virtualization benefitted infrastructure space is the same way managing Infrastructure as code will benefit IT operations.** The prudent way of managing Infrastructure as code is referred to as **'IT Infrastructure Automation'**.

IT Infrastructure Automation is aggregation of enabling technologies, tools to manage infrastructure, creating standards, policies, guidelines for security, checking health frequently, converting routine system administration tasks as codes, all with lesser efforts through a software platform. Though IT automation appears as an operations driven solution, the real benefit is to business.

Businesses with IT automation benefit by having a reliable, standardized, security compliant, scalable infrastructure that is agile to the needs of business applications.

Stacbloc ITAM is one such IT Infrastructure automation tool that greatly simplifies IT operations. Stacbloc ITAM is a comprehensive, yet simple automation engine that makes systems, applications easier to deploy and manage.