

The Future of Storage

Software Defined Storage

Echo Li

LEAD YOUR TRANSFORMATION

EMC²: A Unique Federation Of Businesses

Focused & Free To Execute On Their Mission, Strategically Aligned

PLATFORM FOR **Pivotal** CLOUD & BIG / FAST DATA **APPLICATIONS** SOFTWARE-DEFINED DATA CENTER HYBRID CLOUD **m**ware END USER COMPUTING **INFORMATION STORAGE and PROTECTION EMCII** INFORMATION INTELLIGENCE

Our Brands





RSA Pivotal



Our Portfolio Has Never Been Stronger







Our Strategy: Best Of Breed Storage & Backup



High Service Level



Our Dual Innovation Strategy



Research & Development

12% Investment

Our Dual Innovation Strategy



Research & Development

12% Investment



Technology Acquisitions

"String Of Pearls"

10% Investment





Mobile Cloud Big Data Social **Mobile Devices**



LAN/Internet Client/Server
PC



Mainframe, Mini Computer **Terminals**



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LAN/Internet Client/Server **PC**





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THOUSANDS OF APPS





Mobile Cloud Big Data Social

Mobile Devices

HUNDREDS OF MILLIONS

OF USERS





LAN/Internet Client/Server
PC

TENS OF THOUSANDS

OF APPS



MILLIONS OF USERS



Mainframe, Mini Computer **Terminals**

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BILLIONSOF USERS





MILLIONS OF APPS



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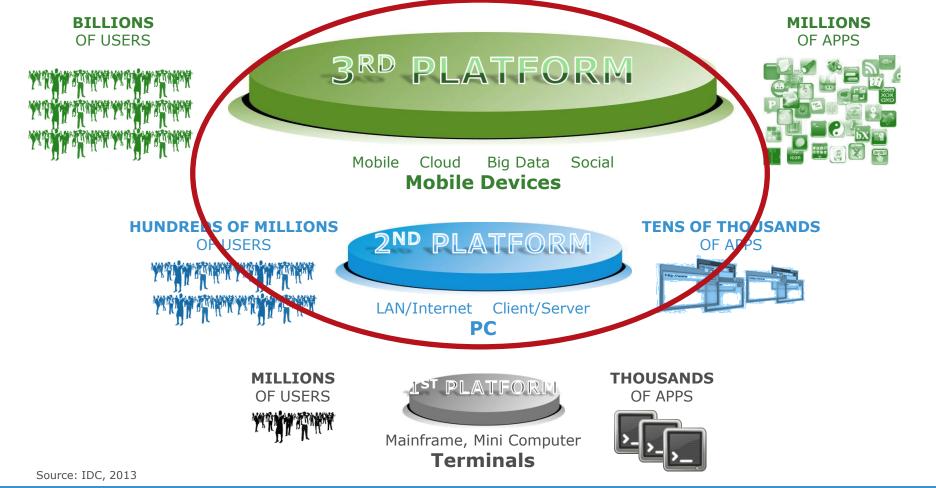


MILLIONS OF USERS



THOUSANDS OF APPS





EMC²



Exponential Data Growth



High Demands for Availability & Agility



STOP. LOOK. LISTEN.

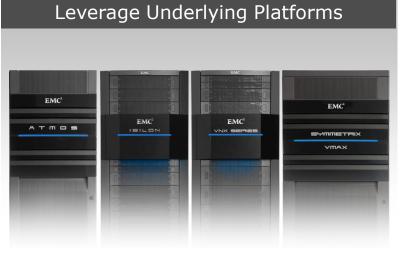
How Should Storage Be Delivered And Managed?



Software-Defined Storage Requirements



Abstract, Pool & Automate Storage









EMC Software-Defined Storage



VIRTUALIZE EVERYTHING COMPROMISE NOTHING



EMC ViPR, Software-Defined Storage

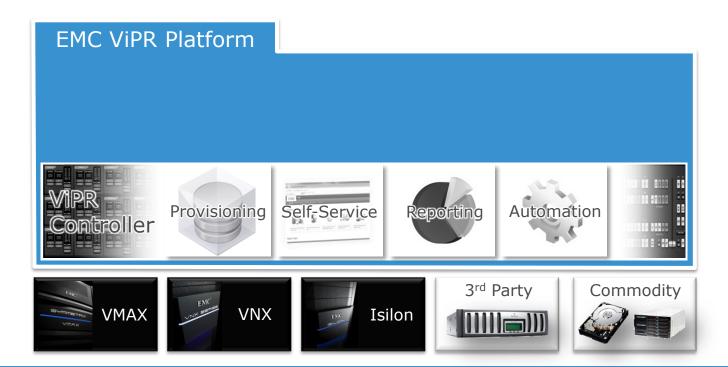
Software Control Plane AND Data Plane





EMC ViPR, Software-Defined Storage

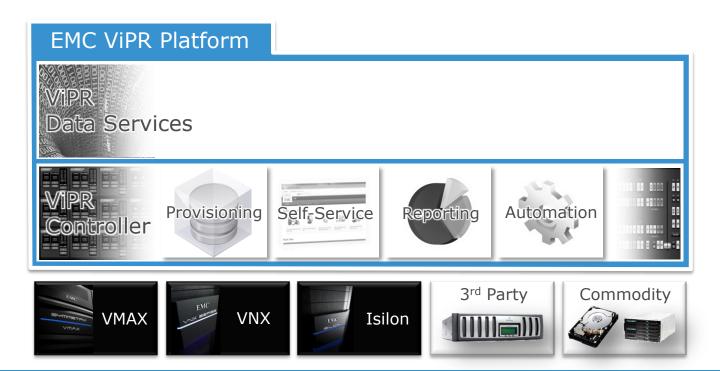
Control Plane: The EMC ViPR Controller





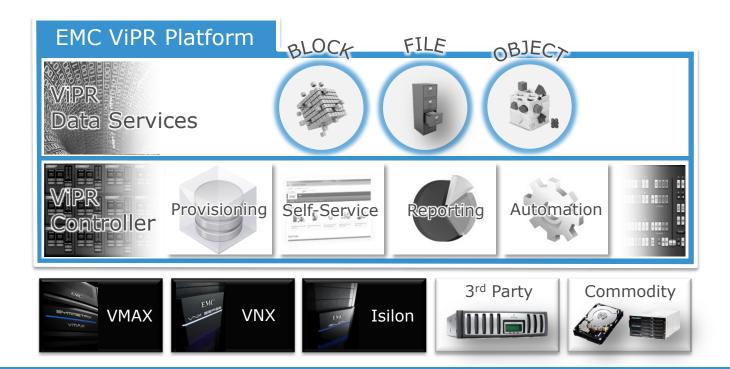
EMC ViPR, Software-Defined Storage

ViPR Data Services





EMC ViPR - Software-Defined Storage





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BLOCK FILBLOCK FILE

OBJECT ON FILE

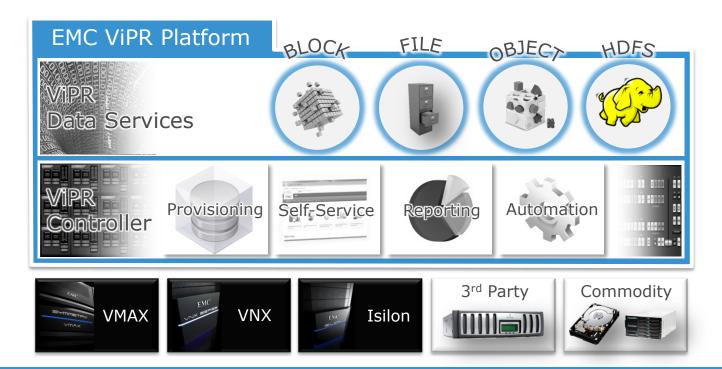


OBJECTOBJECT





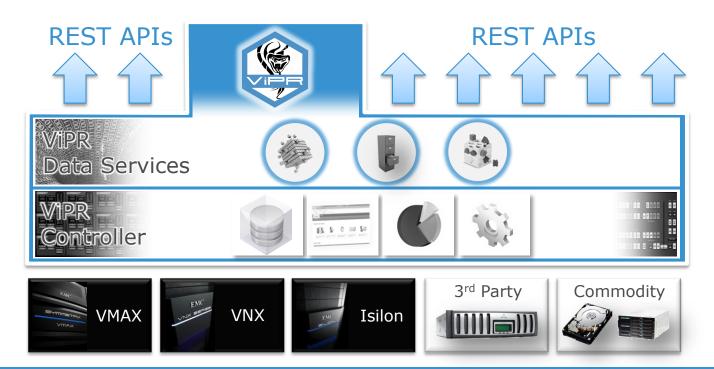
EMC ViPR - Software-Defined Storage





This Is A Programmable Platform

REST APIs Enable IT Organizations, SPs & ISVs To Extend ViPR







Enable third-party development of adapters for **non-EMC** arrays

Open all APIs and necessary code



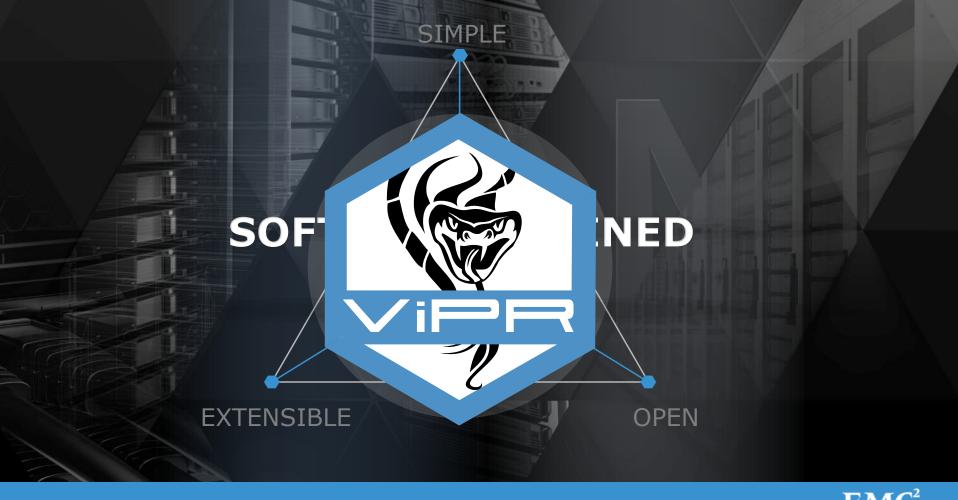




SUPPORT FOR EXISTING STANDARDS







EMC²



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