#### NUTANIX

## How to Build a Business Case for Cloud



# Companies that don't constantly reinvent don't last.

52% of Fortune 500 companies since 2000 have been acquired or gone bankrupt.

Only 12% of Fortune 500 companies that existed in 1955 still exist today.

50% of U.S.-based startups fail within the first year.

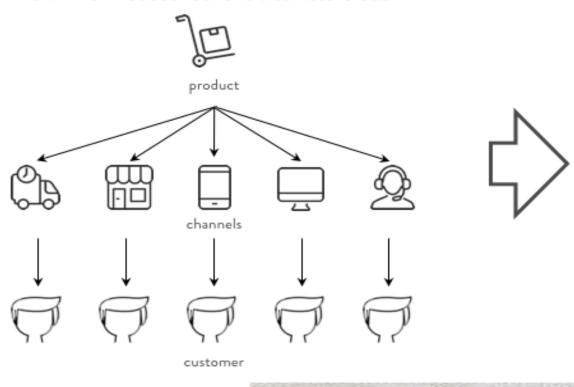
## We are moving to a Subscription World





## ONCE-IN-A-CENTURY SHIFT IN HOW BUSINESSES OPERATE

#### STATIC Product-Centric Business Model



#### **DYNAMIC Subscription Business Model**







#### CEO's need innovation to drive growth

"Infrastructure & Operations leaders must work with the CIO and their peers to help build in-house IT and digital capabilities that will deliver growth"

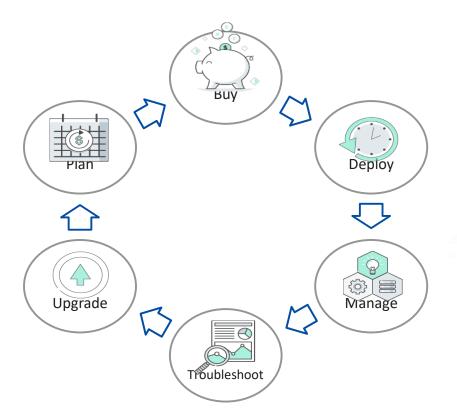
"57% of CEOs are focused on re-internalizing IT and digital."

-- Gartner





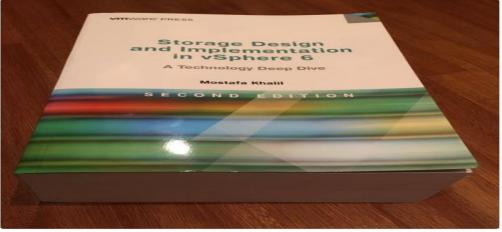
## IT Is Hurting Due to Complexity







The book is here. The publisher managed to fit the 1242 pages in one volume.



9:16 PM - 1 Aug 2017

26 Retweets 58 Likes









## Time Spent on Infrastructure, Less on Apps





#### YOU NEED CLOUD LIKE TECHNOLOGY

#### **Rapid Time to Market**

Deploy apps in minutes



#### **One-click Simplicity**

No low-level infra mgmt

#### **Flexible IT Consumption**

Get & pay for what you need

#### **Continuous Innovation**

Infra regularly gets better



#### PUBLIC CLOUD DOES NOT ALWAYS FIT



## Data Gravity & Legacy Apps

Make migrations hard; plus fear of vendor lockin where data resides



#### Regulatory Concerns

That do not permit hosting data outside of an org's geography



## Loss of Control

From being able to deploy custom solutions to protect your apps and data



## Unpredictable Costs

Overruns due to limitless resources and high egress charges



### Public Cloud = Unpredictable Costs



Corey Quinn @QuinnyPig



Medical billing is the only time where you don't know what it's going to cost until afterwards, when it's too late and you're already on the hook for it.

Oh, and the cloud's billing model does that exact thing too.

8:35 AM - 25 Feb 2019

17 Retweets 74 Likes













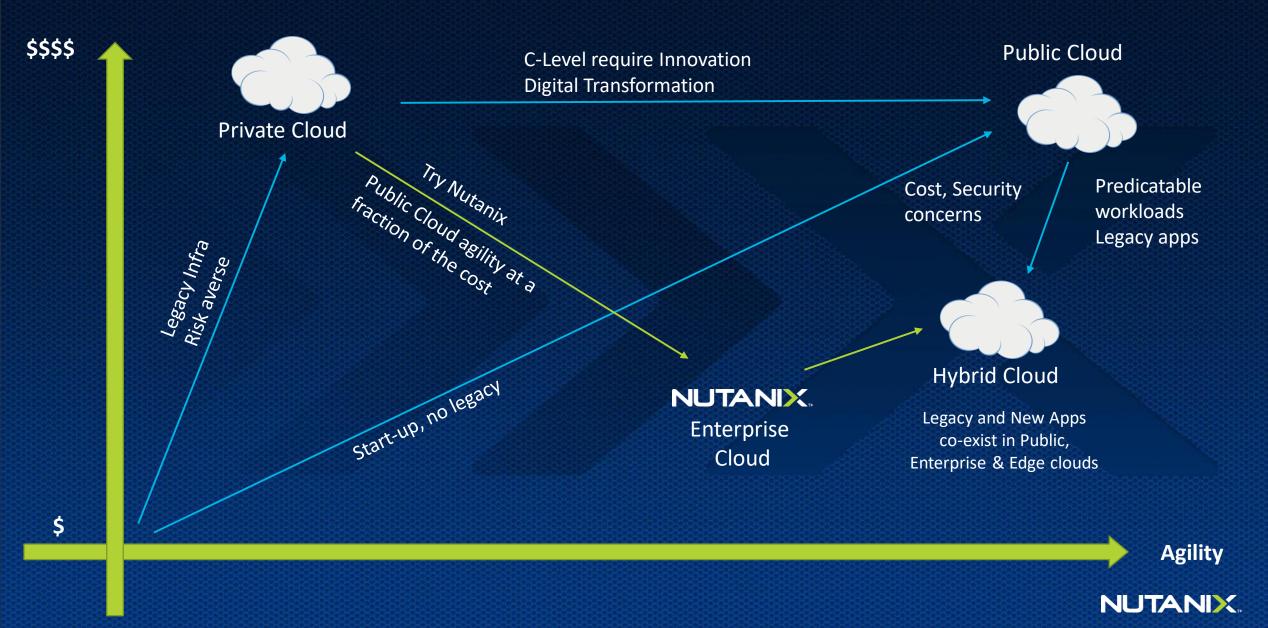




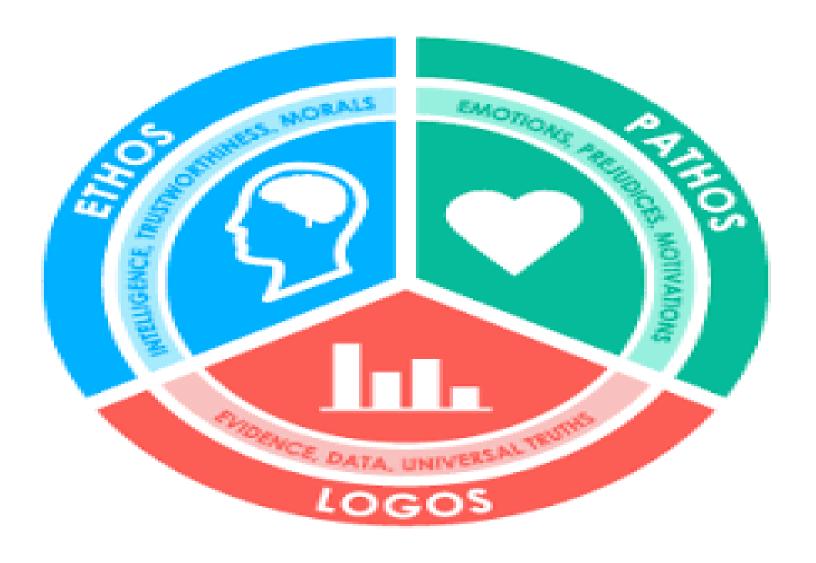




#### Many ways lead to Hybrid Cloud



# How to build a Compelling Business Case









Koko's stepdaughter got R800m tender in Eskom looting scandal - report

Mar 10 2019 11:37 Fin24

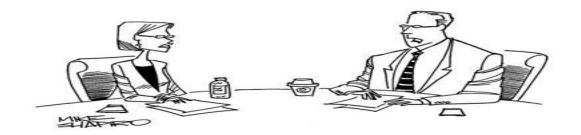


#### Part Two - Pathos

#### DERAILMENT FACTORS TO RATIONAL DECISION MAKING

You are dumber than you think you are

#### INVESTMENT DECISION MAKING



"Collins, it's been brought to my attention that your secret institutional biases are in direct conflict with mine."



#### **ANCHORING**



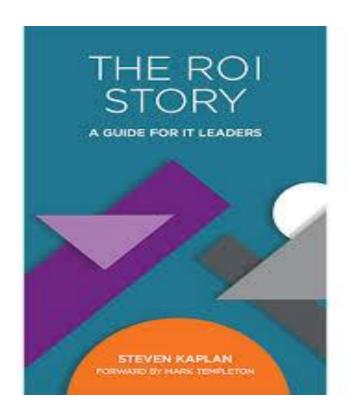
#### Options need to be chosen wisely

| Economist.com        | SUBSCRIPTIONS  |  |  |  |  |
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|                      | One-year subscription - US \$125.00 One-year subscription to the print edition of The Economist and online access to all articles from The Economist since 1997. |  |  |  |  |

Option 3 went from 67% to 16% by eliminating option 2



## Part 3 Logos:-The Financial Analysis Approach

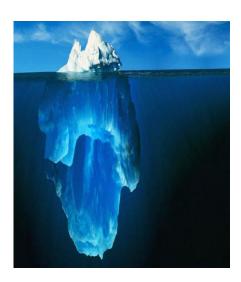


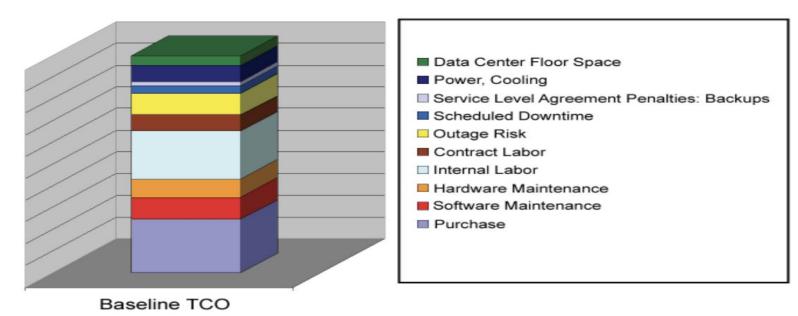


#### **Key Principles of IT Economics**

#### 1.Price vs Cost

- Price is about 20% of TCO
- Far too often, procurement is determined by the lowest bid, without consideration of the fact that low price architectures often produce higher costs of ownership.
- If long-term, true OPEX and CAPEX cost reduction is really the goal, then a total cost model is essential.







Identify Measure

Reduce

**Measure Again** 

### Cloud Economics - Real life example



VS.





2017 Hyundai Santa Fe List \$30,800

Annual Operating Cost of \$2,566



1

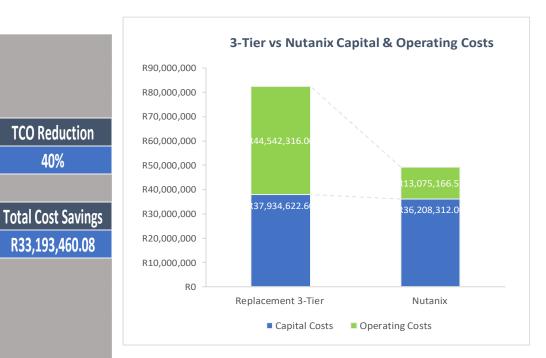
#### LARGE INSURANCE CO IN SOUTH AFRICA – 5 YEAR TCO

**TCO Reduction** 

40%

R33,193,460.08

| 5 - Year Financial Summary                     | Replacement 3-Tier | Nutanix        |
|--|--------------------|----------------|
| Capital Costs                                  |                    |                |
| Compute Layer                                  | R14,905,497.60     | R35,508,312.00 |
| Storage  | R20,720,000.00     | R0.00          |
| Storage Area Network & Ethernet Switches       | R1,400,000.00      | R700,000.00    |
| Server Virtualization Software/Hypervisor      | R629,125.00        | R0.00          |
| Capitalized Professional Services/Installation | R280,000.00        | R0.00          |
| A. Total Capital Costs                         | R37,934,622.60     | R36,208,312.00 |
|  |                    |                |
| Operating Costs                                |                    |                |
| Post Warranty Support                          | R7,924,000.00      | R0.00          |
| Server Virtualization Software Support         | R2,614,500.00      | R0.00          |
| Power & Cooling                                | R11,883,816.00     | R4,521,166.52  |
| Data Center Space                              | R4,620,000.00      | R1,554,000.00  |
| Administration FTE                             | R17,500,000.00     | R7,000,000.00  |
| B. Total Operating Costs                       | R44,542,316.00     | R13,075,166.52 |
|  |                    |                |
| A+B Total Cost of Ownership                    | R82,476,938.60     | R49,283,478.52 |



| Current Run Rate Estimate |           |               |                 |  |  |  |  |
|---------------------------|-----------|---------------|-----------------|--|--|--|--|
|                           | Per Annum |               | 5 Years         |  |  |  |  |
| Support                   | R         | 9,451,813.45  |                 |  |  |  |  |
| Administration FTE        | R         | 3,500,000.00  |                 |  |  |  |  |
| Power/Cooling             | R         | 5,293,600.00  |                 |  |  |  |  |
| Space                     | R         | 887,040.00    |                 |  |  |  |  |
| Total                     | R         | 19,132,453.45 | R 95,662,267.24 |  |  |  |  |



<sup>&</sup>quot;Nutanix delivers up to 75% lower operational cost for a similar upfront capital investment vs traditional IT"

### Hyperconverge Operations

HIVPERCONVERGE INSIS **STORAGE ADMIN TASKS NETWORK ADMIN TASKS** 40%-60% Saving **MANAGEMENT** REPORTING **VSPHERE ADMIN** 60%-80% Saving **COMPUTE ADMIN TASKS NUTANIX ADMIN NUTANIX ADMIN** 







3 TIER NUTANIX+ESX NUTANIX+AHV

**HYPERVISOR TASKS** 

×

#### 3 TIER

#### **Data Migration**

- Refreshed 4PB of storage annually
  - Took 9 months each year
  - \$700,000 per annum

#### Deployment

- Deploying 10 Node Cluster with vSphere
- 7-9 Hours

#### **Training & Certification**

Up to 9 months to certify as a VMWare specialist



#### **NUTANIX**

#### **Data Migration**

1 week to accomplish what takes up to 9 months in the 3
 Tier

#### Deployment

- Deploying 10 Node Cluster to AHV/Prism
- 45-90 minutes

#### **Training & Certification**

 Your team can be trained to an equivalent level on Nutanix in just two weeks

#### Support

92% NPS Score



#### Datacenter Cost Savings Potential = Huge



Reduced datacenter footprint from 192U to 12U, for a 16:1 reduction across all four use cases

#### 3 Tier Legacy Design





## SOUTH AFRICAN FINANCIAL SERVICES COMPANY

#### **Assumption Industry**

\$10.00 per U per month (\$23 is industry standard)

Nutanix is 15% of the equivalent 3 Tier Space (514U vs 72U actual)

1.9 Racks vs 12 Racks

2.8m ZAR benefit for Nutanix

87,314 KWHR for 3 Tier vs 24,159 KWHR for Nutanix (4 Year lookback results)



54 RL

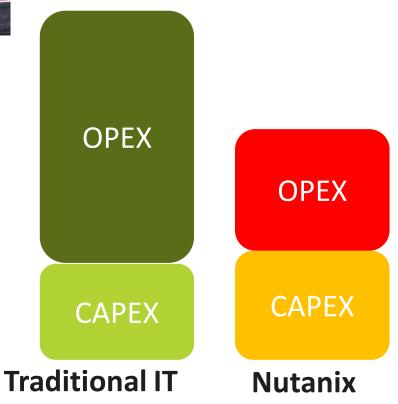




## An Edge TCO Example



"Reducing the physical amount of equipment massively lowered the cost of shipping to each Grand Prix. We save £150,000 (3mR) per season in shipping costs which is a big deal because it's money we can now spend on improving car performance." Williams predicts that over the expected lifecycle of three years the solution will recoup 100 per cent of its investment across both trackside and factory environments.



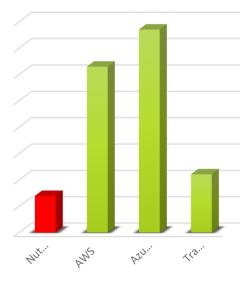


#### PUBLIC CLOUD TCO — LIFT AND SHIFT CAN BE EXPENSIVE

#### Assumes lift and shift

| Total Cost of Ownership                        | \$1,388,138 | \$6,294,750 | \$7,702,191 | \$2,207,931    |
|--|-------------|-------------|-------------|----------------|
|  |             |             |             |                |
| Sub-Total Opportunity Costs                    | \$0.00      | \$0.00      | \$0.00      | \$0.00         |
|  |             |             |             |                |
| Downtime Costs                                 | ΦΟ          | ΦU          | ΦU          | \$0            |
| Time to Solution  Downtime Costs               |             | \$0<br>\$0  | \$0<br>\$0  | \$0<br>\$0     |
| Opportunity Costs                              | #0          | #0          | #6          | #0             |
|  |             |             |             |                |
| Sub-Total Operating Costs                      | \$487,953   | \$6,294,750 | \$7,702,191 | \$1,586,731    |
| Administration                                 | \$250,000   | \$500,000   | \$500,000   | \$1,000,000    |
| Server Virtualization Software Support         | <b>\$</b> O | \$0         | <b>\$</b> 0 | <b>\$</b> 0    |
| Cloud Support                                  | <b>\$</b> O | \$352,027   | \$467,520   | <b>\$</b> 0    |
| Direct Connect/Express Route                   | <b>\$</b> O | \$234,729   | \$27,628    | \$0            |
| HW Support                                     | \$113,144   | \$0         | \$0         | \$205,360      |
| Storage Egress                                 | \$0         | \$179,030   | \$28,181    | <b>\$</b> 0    |
| Storage Instances                              | \$0         | \$2,078,742 | \$3,275,462 | <b>\$</b> 0    |
| Compute Instances                              | \$0         | \$2,950,220 | \$3,403,400 | \$0            |
| Power & Cooling                                | \$94,569    | \$0         | <b>\$</b> 0 | \$310,811      |
| Data Center Rack Space                         | \$30,240    | \$0         | <b>\$</b> 0 | \$70,560       |
| Operating Costs                                |             |             |             |                |
| Sub-Total Capital Costs                        | \$900,186   | <b>\$0</b>  | <b>\$0</b>  | \$621,200      |
| Capitalized Professional Services/Installation | \$15,000    | \$0         | \$0         | \$30,000       |
| Server Virtualization Software/Hypervisor      | \$0         | \$0         | <b>\$</b> 0 | \$0            |
| Other  | \$0         | \$0         | <b>\$</b> 0 | <b>\$</b> 0    |
| Nutanix SW                                     | \$585,252   | \$0         | <b>\$</b> 0 | <b>\$</b> 0    |
| Ethernet /TOR Switches                         | \$20,000    | \$0         | <b>\$</b> 0 | \$40,000       |
| Hardware Capex                                 | \$279,934   | \$0         | <b>\$</b> 0 | \$551,200      |
| Capital Costs                                  |             |             |             |                |
|  | Nutanix     | AWS         | Azure       | Traditional IT |
| YEAR COST OF OWNERSHIP MODEL                   | Option 1:   | Option 2:   | Option 3:   | Option 4:      |
| S YEAR COST OF OWNERSHIP MODEL                 |             | I           |             |                |
|  |             |             |             |                |

#### **5 YEAR Platform TCO**

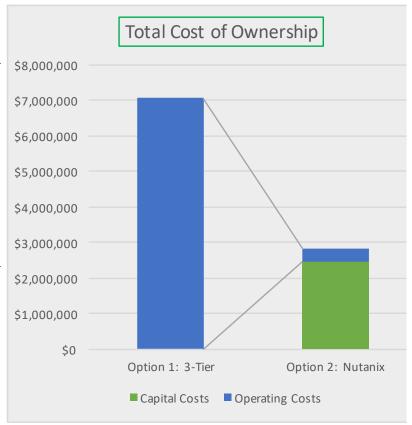




#### Outsourcing on 3 Tier is not the answer to Cloud

#### **TCO Financial Summary**

|  | Infra. as a Services r | Option 2: Nutanix |
|--|------------------------|-------------------|
| Capital Costs                                  |                        |                   |
| Compute Layer                                  | \$0                    | \$2,383,330       |
| Data Storage Services                          | <b>\$</b> 0            | <b>\$</b> 0       |
| Storage Area Network & Ethernet Switches       | <b>\$</b> 0            | \$60,000          |
| Fabric Interconnects                           | \$0                    | \$0               |
| SAN/Ethernet Ports & Cables                    | \$0                    | \$9,900           |
| Server Virtualization Software/Hypervisor      | \$0                    | <b>\$</b> 0       |
| Capitalized Professional Services/Installation | \$0                    | \$26,400          |
| Sub-Total Capital Costs                        | \$0                    | \$2,479,630       |
| Operating Costs Infra. as a Services           | \$7,069,520            | \$0               |
| Power & Cooling                                | \$0                    | \$190,883         |
| Post Warranty Support                          | \$0                    | \$0               |
| Server Virtualization Software Support         | <b>\$</b> 0            | \$0               |
| Administration FTE                             | \$0                    | \$143,000         |
| Sub-Total Operating Costs                      | \$7,069,520            | \$333,883         |
| Total Cost of Ownership                        | \$7,069,520            | \$2,813,513       |





# NUTANIX Thank you

#### Trusted by 13,000+ Customers Worldwide

















































































































































































































































