



Windows the ITV way*

Tom Clark, Head of Common Platform

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*aka "ITV's Common Platform: Now with added Windows"

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Windows the ITV way



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Windows the ITV way



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The situation



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The Common Platform



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Key principles



Automation



Standardisation 100



Loosely coupled, highly aligned



Blast radius reduction 



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Principle of least astonishment 

“You build it, you run it” 😎



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Application



Platform



Infrastructure



A problem has been detected and Windows has been shut down to prevent damage to your computer.

THREAD_NOT_MUTEX_OWNER

If this is the first time you've seen this Stop error screen, restart your computer. If this screen appears again, follow these steps:

Check to make sure any new hardware or software is properly installed. If this is a new installation, ask your hardware or software manufacturer for any Windows updates you might need.

If problems continue, disable or remove any newly installed hardware or software. Disable BIOS memory options such as caching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup Options, and then select Safe Mode.

Technical information:

*** STOP: 0x00000011 (0x00234234, 0x00005345, 0x05345345, 0xFFFFFFFF)

“Layer cake”

Application

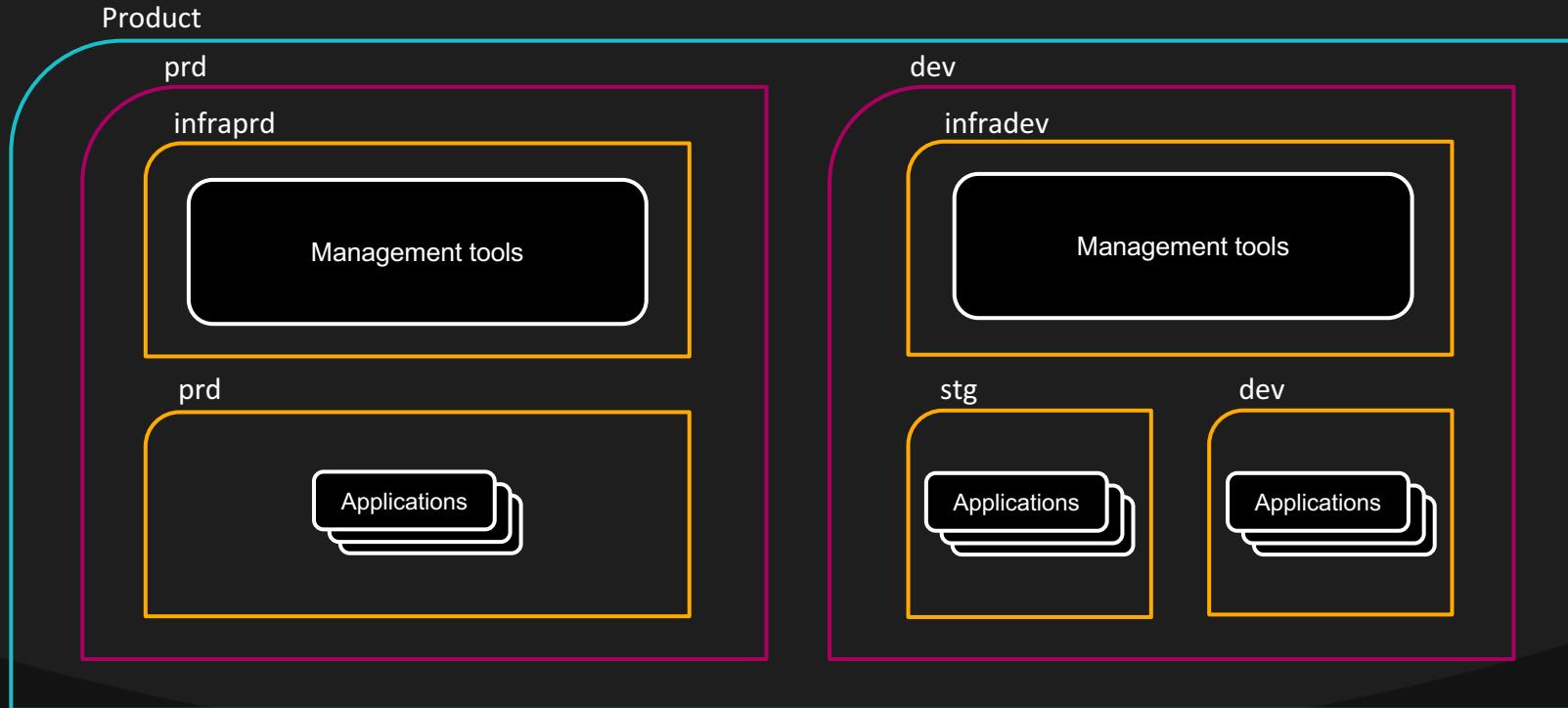
Platform

Infrastructure



Windows the ITV way

AWS

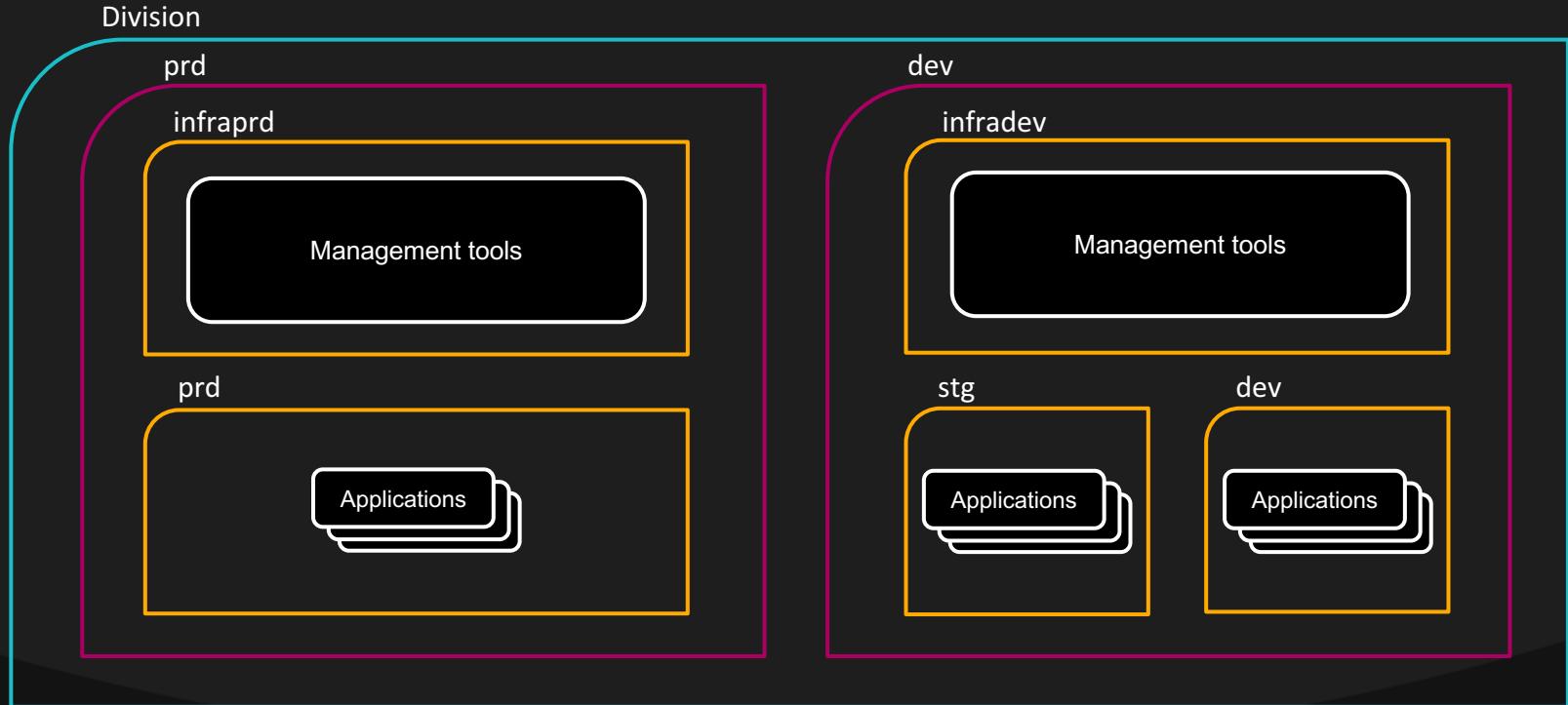


Product Account VPC

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Windows the ITV way

SDDC



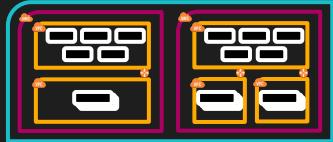
Tenant Business Group Subnet

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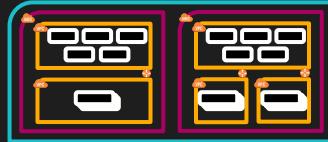
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SDDC

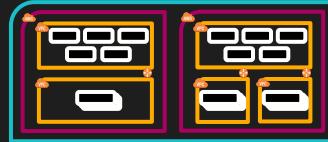
Broadcast



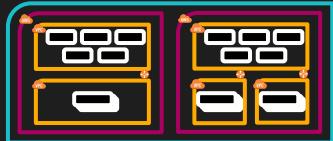
CP



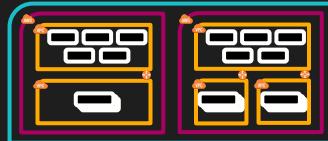
Commercial



Infrastructure



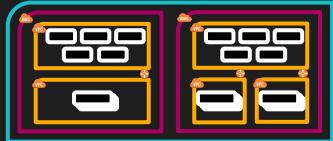
Online



Shared Services



Studios



Workplace



1.2.0

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Application

Platform



Infrastructure

Tooling R&D

Config Mgmt. (Puppet)



Monitoring (Sensu)



Logging (ELK)



Metrics (TIG)



Orchestration (Jenkins)



Operating system
Config manageme
Config manageme
Monitoring
Metrics
Logging



Deployment/orch.
y
n/architecture
VMware)

Agile platform delivery



People



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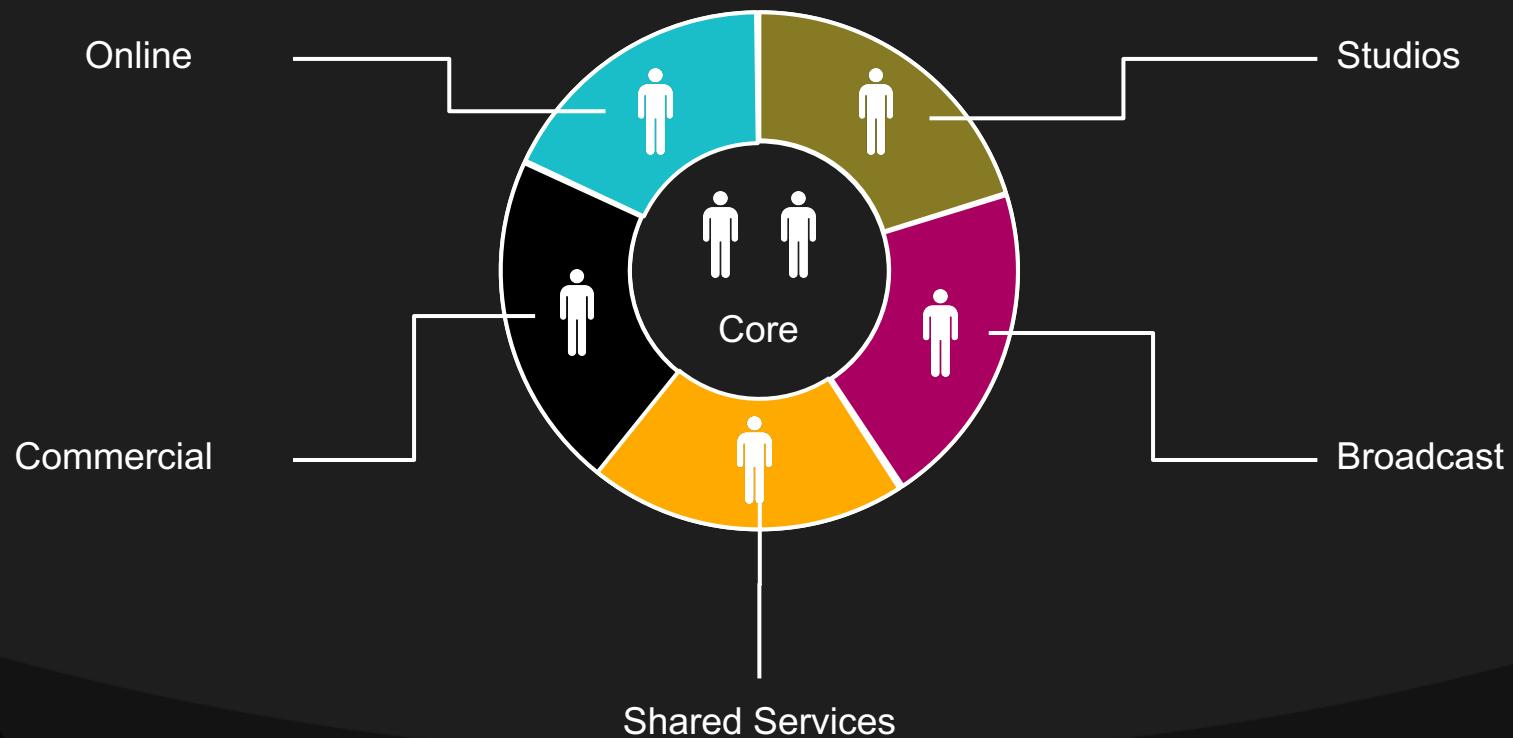
Small number of brilliant people 😎

Embedded/Divisional Engineers



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Windows the ITV way



Platform Engineering roles



Build



Run



Enhance



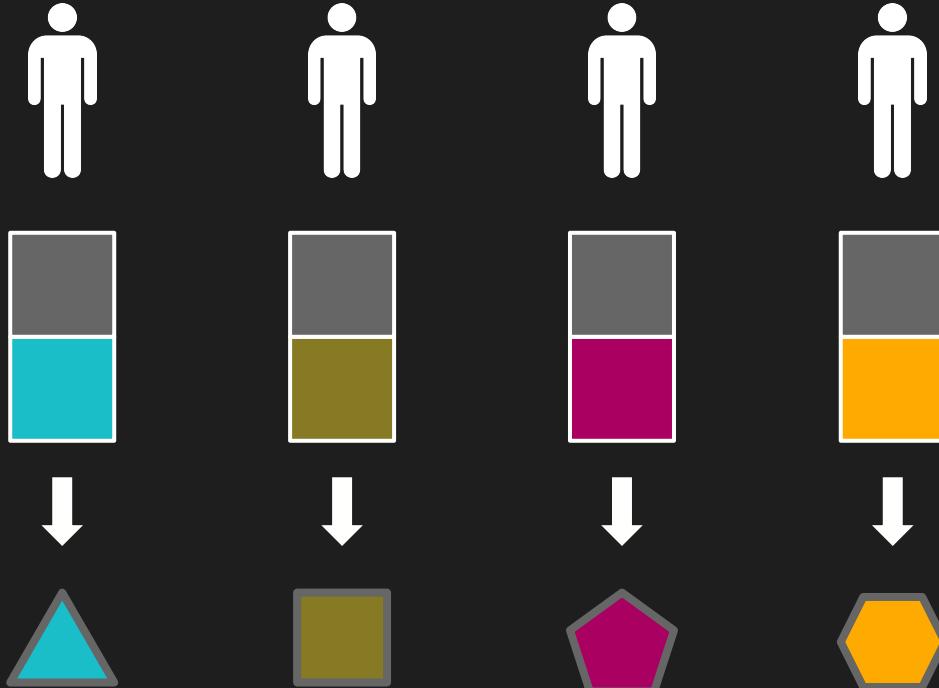
Core team



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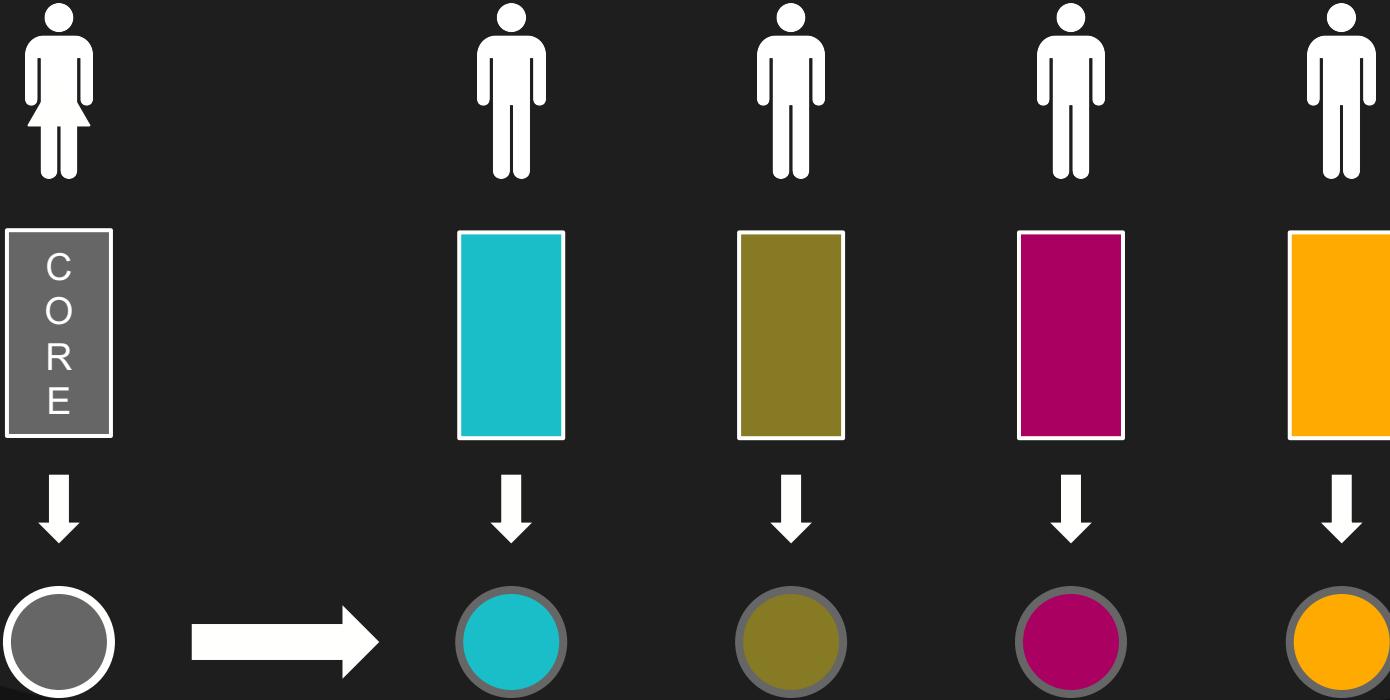
Windows the ITV way

Before

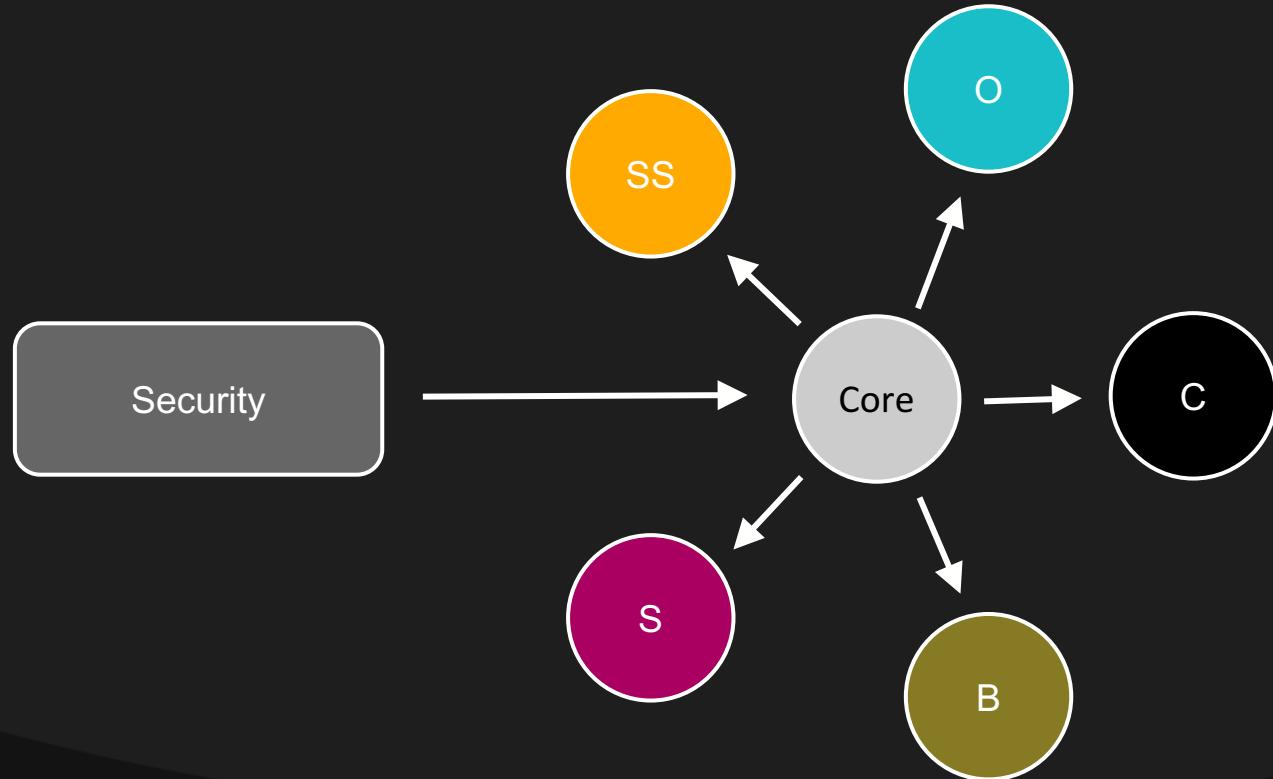


Windows the ITV way

After



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Application



Platform

Infrastructure

IT Estate

Linux: 16 products

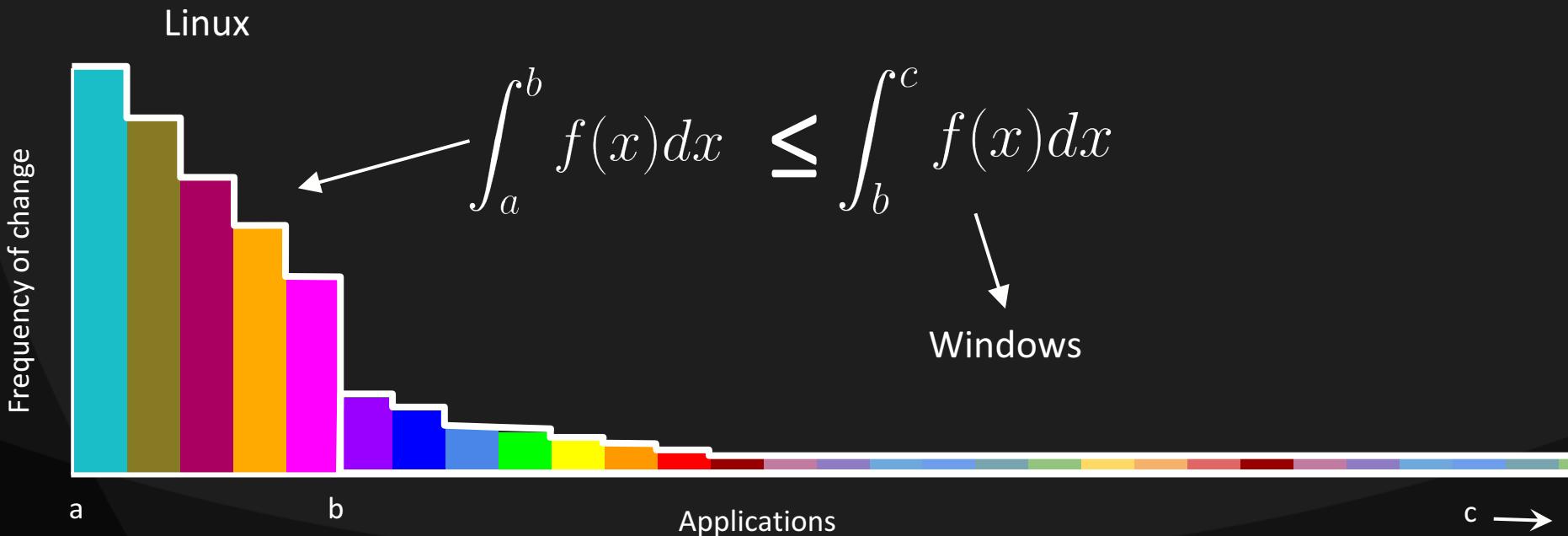
Windows: 171 applications



Migration strategy



Automate everything?



Automation? 🤔

The result?



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ONE Common Platform



But I need your help...



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