

# DEVELOPER EXPERIENCE COMPASS

Upgrade Your Software Development Engine

 **Microsoft**  
Solutions Partner  
Microsoft Cloud

 **Microsoft**  
Solutions Partner  
Infrastructure  
Azure

Specialist  
Infra and Database Migration  
Azure Virtual Desktop

 **REPLY**  
VALOREM

# HOW CAN YOU UPGRADE YOUR SOFTWARE DEVELOPMENT ENGINE?



## Restated

Would it be useful if you could make every software developer more effective? Would that give you a competitive advantage?



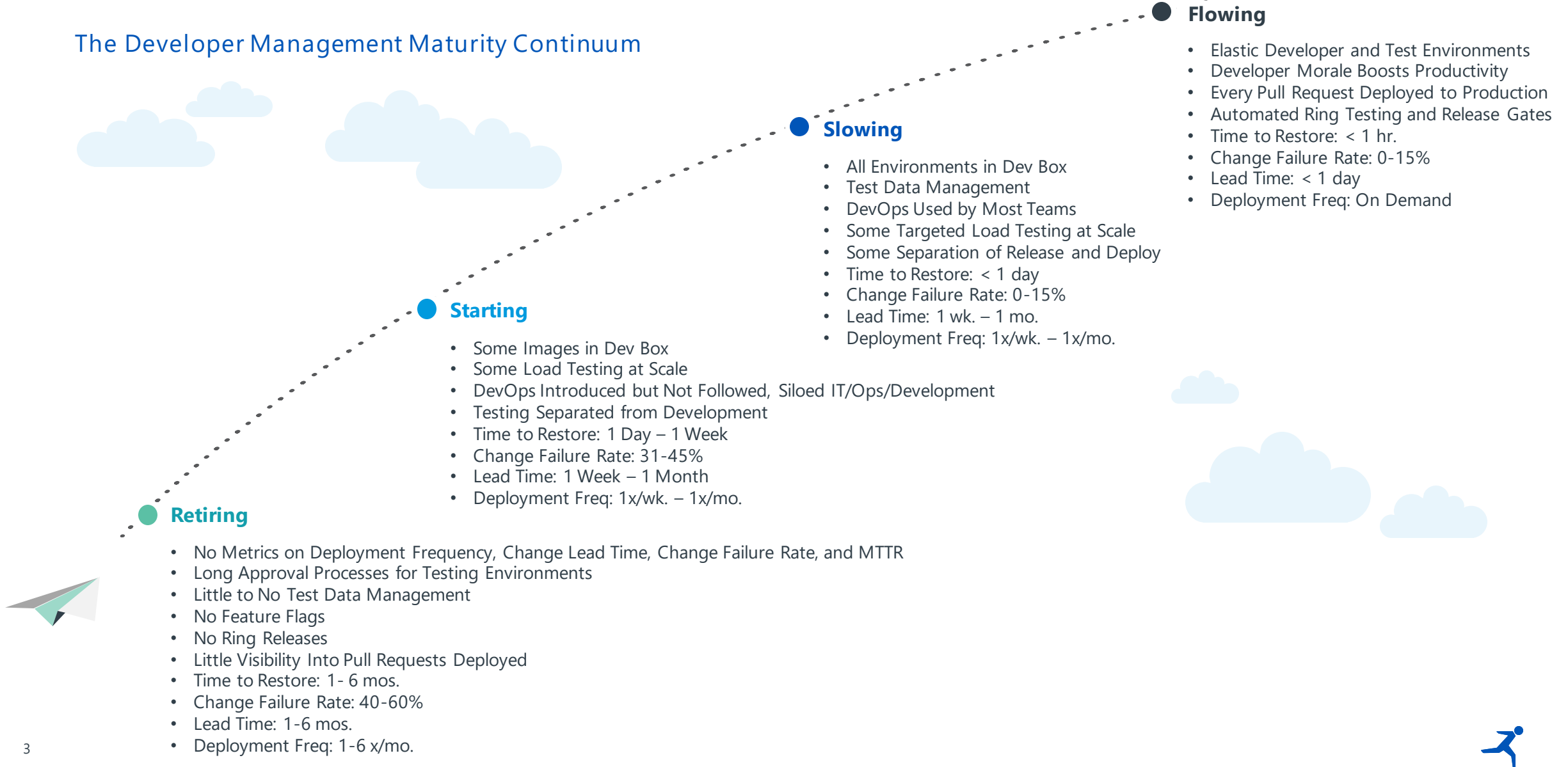
## Accelerating Developer Productivity

- Dev Box
- Deployment Environments
- Internal Developer Platform
- Azure Load Testing
- Test Data Management/Creation
- GitHub Copilot
- DevOps

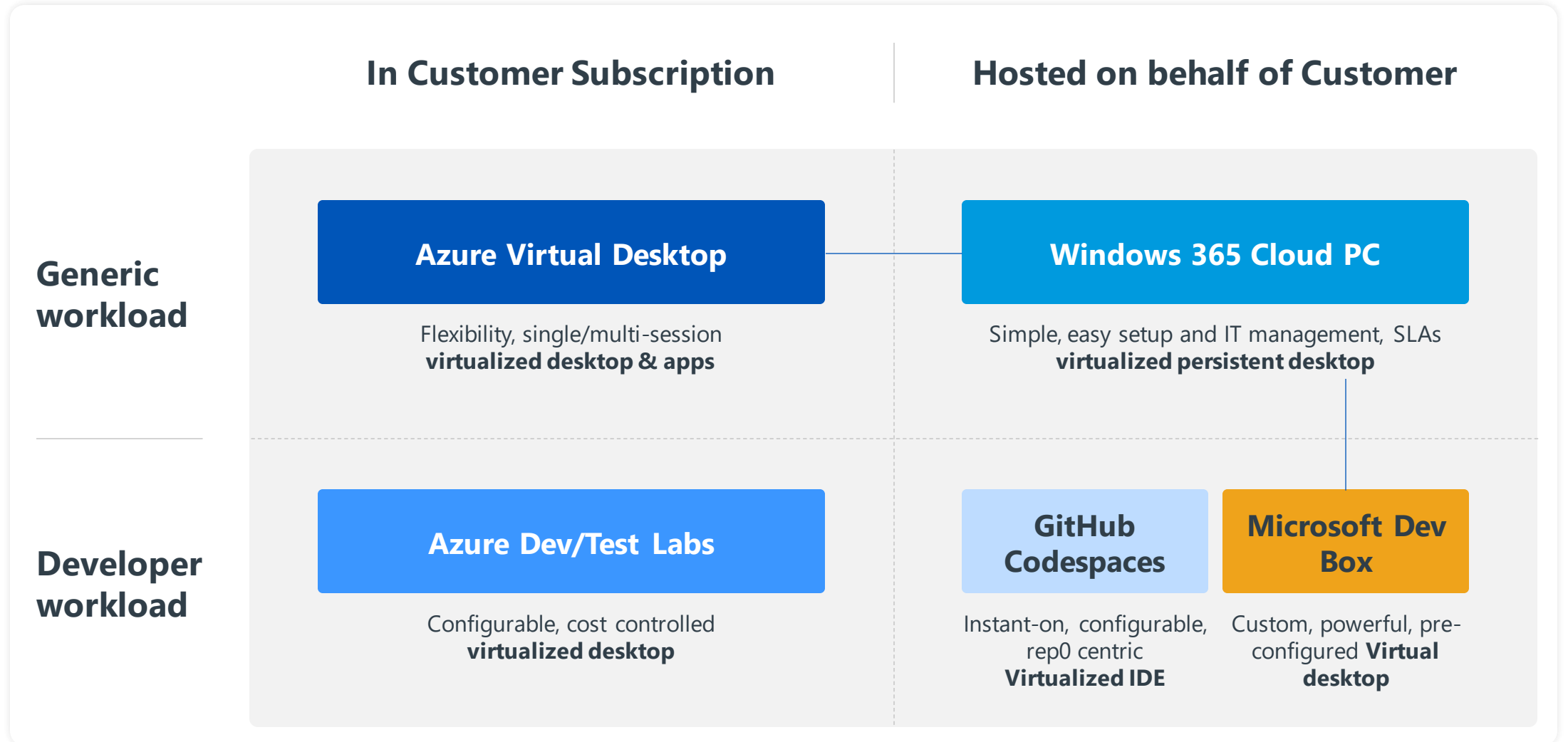


# DEVELOPER EXPERIENCE JOURNEY

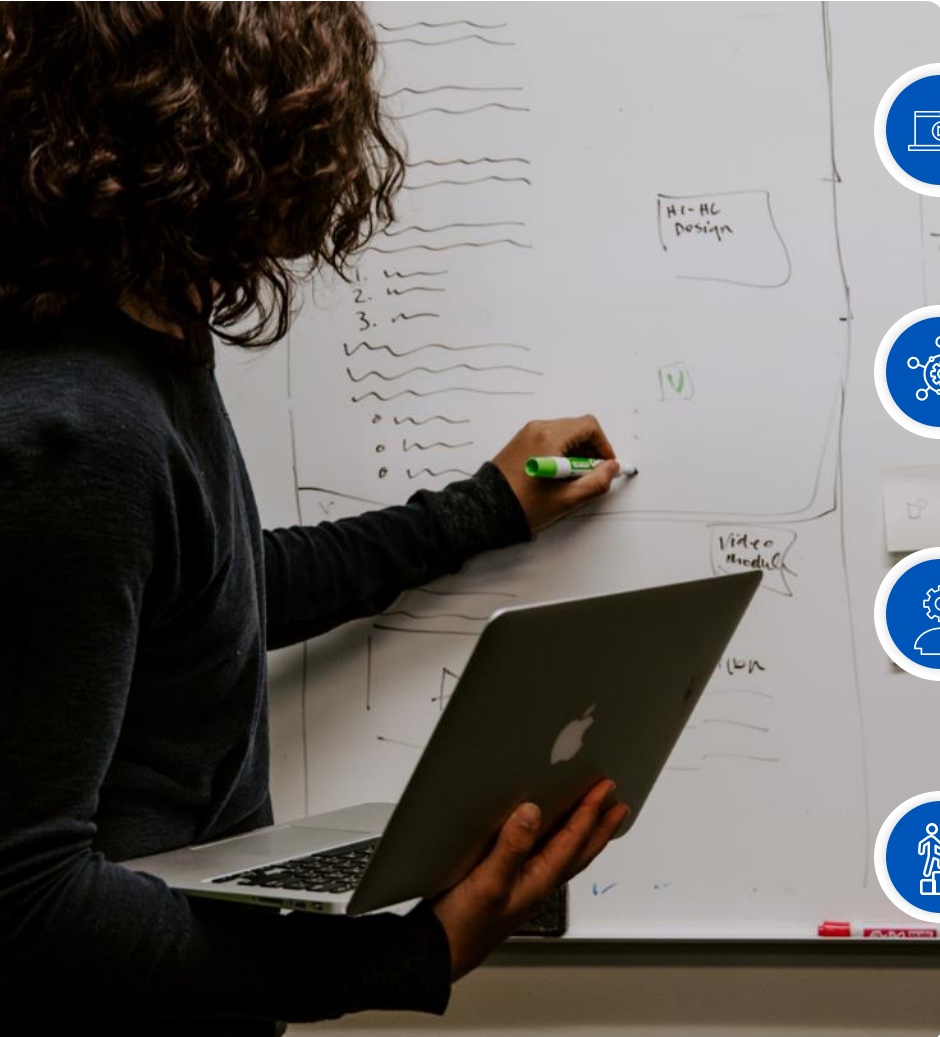
## The Developer Management Maturity Continuum



# TODAY'S CLOUD BOX SEGMENTATION



# WHO IN YOUR ORGANIZATION DOES THIS IMPACT?



Developers – Self-Provision and use boxes that are pre-loaded and pre-configured on-demand

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Team Management – Assign boxes and create effective team, assign the right tools and resources

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IT – Manage with Microsoft endpoint manager, keeping everything secure and up-to-date

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Leadership – Reporting enhanced, lead times reduced, product features are delivered quicker, promote remote team membership and remove supply-chain problems



# WHAT PROBLEMS TO AGILITY ARE YOU FACING USING A TRADITIONAL INFRASTRUCTURE ORGANIZATION?



## Complex Setup

Onboarding new developers is error-prone and time-consuming, and if configured incorrectly, issues take weeks to emerge.



## Inefficient Environments

Mixing configurations from a variety of projects slows down workstations and can result in issues that are hard to diagnose.



## Lack of Compute Scalability

Developers working on single, physical machines are limited to that device's compute resources and can't easily multitask between projects.



## Security of Remote Devices

Remote developer teams working on a variety of devices make it harder for IT technicians to control access to sensitive source code.



## Increased Risk of Exposure

IT technicians can't manage the uptime of dev workstations running remotely, putting them at greater risk of exposure.



## Varying Industry Standards

Compliance standards differ across industries, requiring a variety of approaches to the deployment and management of dev workstations.



# HOW DO YOU START WITH DEV BOX?



Create a compute image – Define the image that the developer will work with

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Send a message to a team member

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Let the team member Self-provision Developer Boxes – Select the resources for the type of development, use the right image for project, and scale testing infrastructure up and down as needed

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Schedule start and stop times for the resources

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Start development



# SCENARIO

New user added to the team to help address a production issue in a SAAS ecommerce solutions company

## Traditional

1-2 Weeks

1-2 Weeks

1 Week

3 Hours

1 Hour

1 Hour

1 Hour

16 Hours

36 Hours

1-2 Weeks

1-2 Weeks

1-2 Weeks

## Modern Developer Experience

1 Week

2 Hours

3 Hours

3 Hours

1 Hour

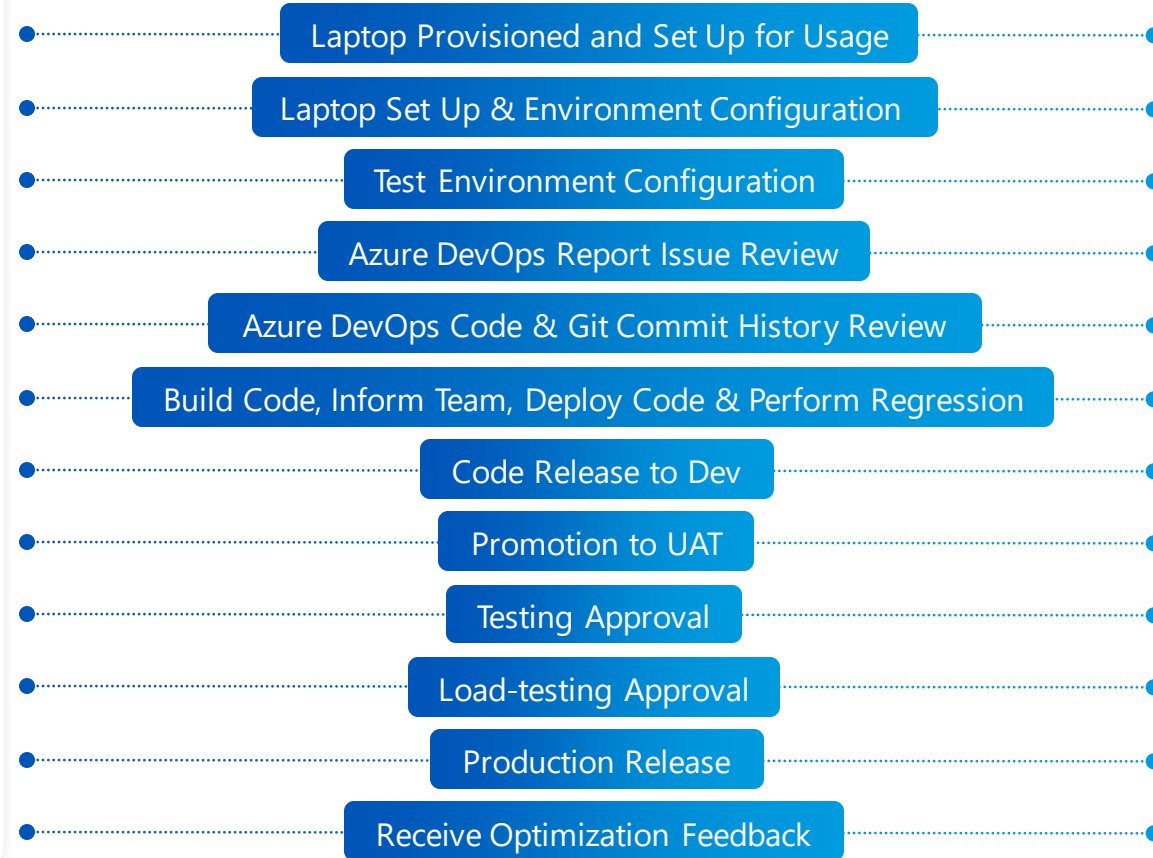
1 Hour

1 Hour

3 Hours

3 Hours

1 Hour





# WOULD YOUR CUSTOMERS FIND ANY OF THESE ITEMS IMPORTANT?



Do you want an increase in developer productivity?

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Do you want to speed up your lead time? Do you want to get to market faster with the ideas you have?

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Would you be better off if you released fewer bugs into production?

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Do you have long wait times to shift resources to projects?

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Could you benefit from quicker offshoring or nearshoring your next project?



# WHY ARE WE DISCUSSING DEVELOPER EXPERIENCE?



## What is “developer experience”?

- It’s everything you need to manage, procure, and administer that allows a developer to code, test, and deploy features and applications to the customer.
- This includes an IDE, cloud infrastructure, test data, and code repositories.
- It’s an explicit recognition that when an enterprise relies on software development, we need to intentionally design and create internal developer platforms to promote that experience.



## What are the key elements that drive this?

- Developer Experience – Enhance the developer experience with self-provisioned environments.
- Hands-on Hardware – Eliminate the need for tracking, shipping, and maintaining a hands-on-hardware organization – Focus your team on differentiable value.
- Environment configuration – Adapt, configure, and provision at scale.
- Right-size specifications – The suitable environments and hardware for your needs – Not more or less than you need.
- Security – Manage and operate from the cloud.



## TLDR

To enable 360-degree cloud operations and allow development to be fully agile using DevOps, centrally manage developer experience, and dynamically offer resources and environments to reduce MTTR, enhance time-to-market, and improve quality.



## WHY? AND WHY NOW?



Dev Box is a crucial way to start your organization toward cloud-native operations and rapid maturity



Enhances already mature operations in adaptability



Priced on operational usage



Centrally upgraded and manageable



The market rewards adaptability – Managing through Azure is gives you more maneuverability



Manage budgets with cleaner cuts and more accurate traceability in assets



Quickly shift to lower-cost resources – Move your development, increase the number of developers, and remove developers



Innovation is Driven Through Experiment – Dev Box creates more opportunity for quick trials and iteration



# ENABLE SELF-SERVICE DEVELOPMENT

Provide developers with self-service access to high-performance, cloud-based workstations preconfigured and ready-to-code for specific projects.



## READY TO CODE

Maximize dev productivity with ready-to-code, self-service workstations preconfigured for specific projects and tasks.



## FLEXIBLE BUT CONTROLLED

Customize workstations with everything developers need for their current projects while adhering to organizational standards.



## MANAGED AND SECURE

Centralize governance of workstations running anywhere to maintain greater security, compliance, and cost efficiency.



## Provision Any Workload

Build any app using any dev tool and repo.



iOS



# CENTRALLY MANAGED AND SECURED

## Maintain greater control over security, compliance, and cost.



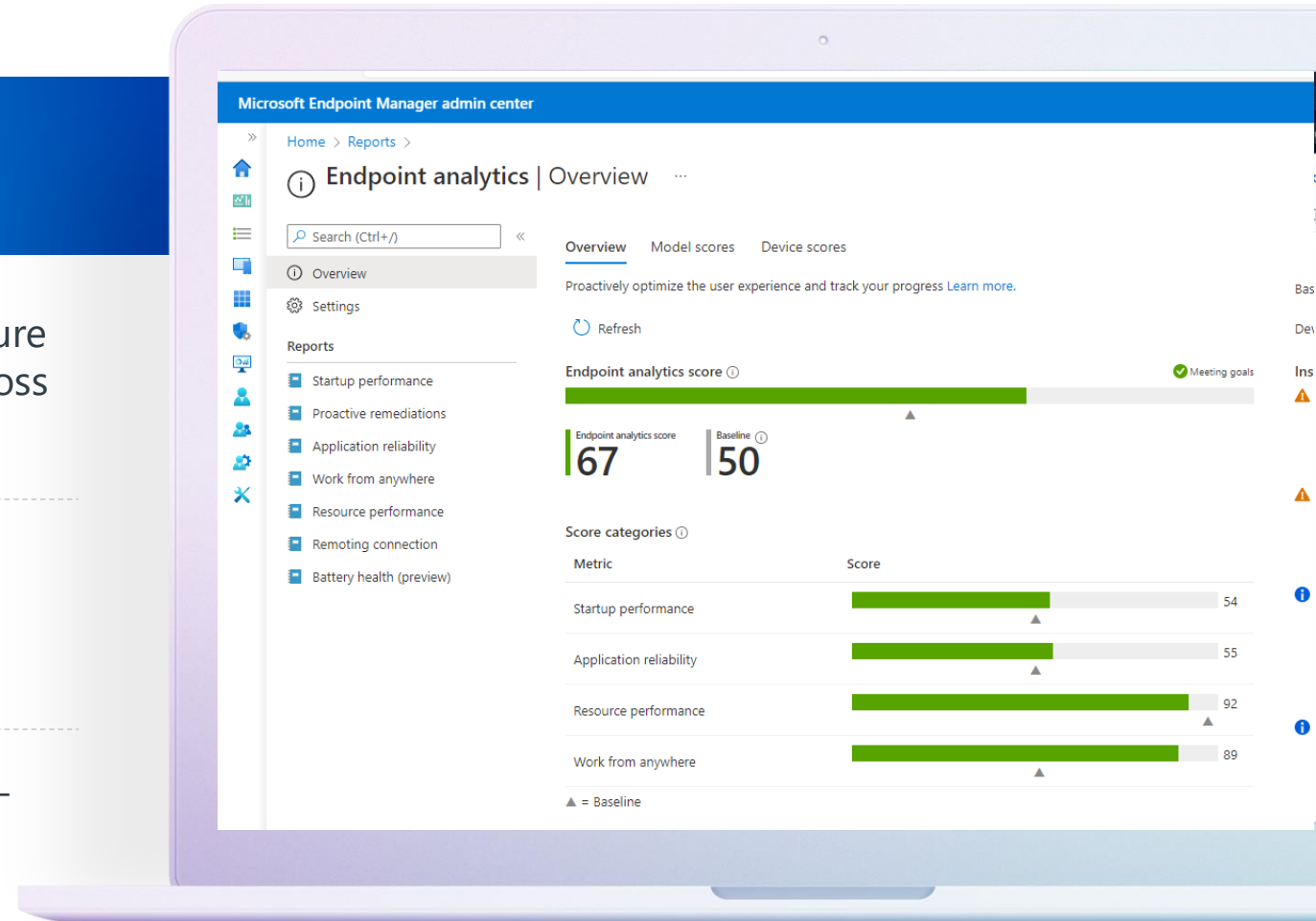
Integrate with existing enterprise infrastructure management systems to extend policies across remote devices.



Control cloud resource configurations on a project-by-project basis by enforcing Azure policies for each dev box.



Keep dev boxes up to date by applying zero-day patches to devices running across the organization.



# ON-DEMAND & SELF-SERVICE DEVELOPMENT ENVIRONMENTS

Quickly set up developers for virtually any development workload.



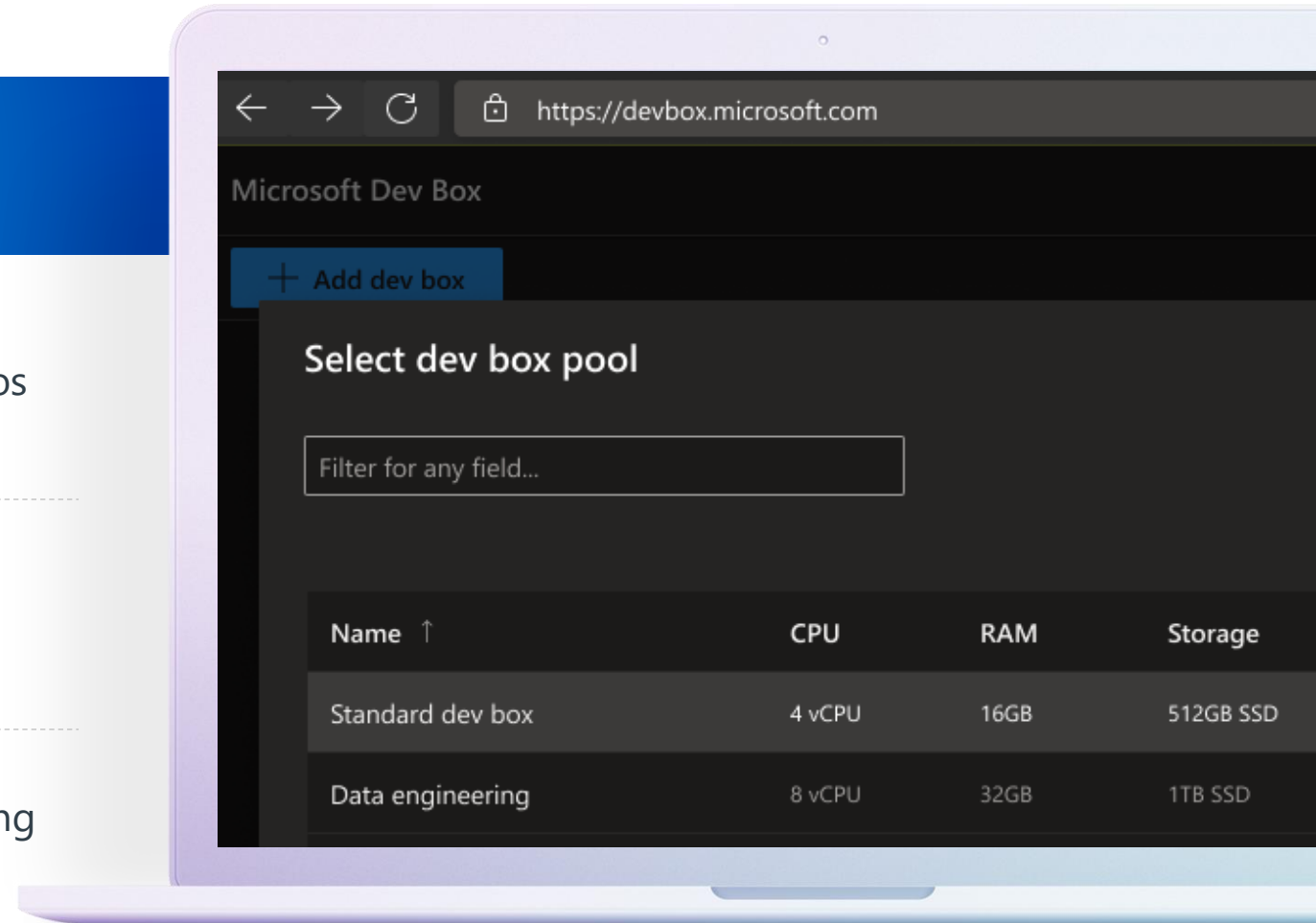
Configure project-specific, task-based dev boxes with the right dev tools and code repos to support any workload.



Create role-based dev boxes to support everyone on the team – from site reliability engineers to contractors.



Keep costs under control with stop scheduling and a consumption-based pricing model.



# ENHANCE THE METRICS THAT MATTER



## Lead Time for Changes

Keep all images that a developer could need and available on-demand – Reduce the time to make a developer productive.

- Low: 1-6 mos.
- Medium: 1 wk. – 1 mo.
- High: 1 day – 1 wk.



## Deployment Frequency

Reduce configuration time and employ more robust testing with the right environments to move through your sprint more quickly.

- Low: 1 mo. – 2 yr.
- Medium: 1 wk. – 1 mo.
- High: On Demand



## Mean Time To Recover

Rapid testing at scale can anticipate and resolve problems more quickly.

- Low: 1 wk. – 1 mo.
- Medium: 1 day – 1 wk.
- High: < 1 day



## Change Failure Rate

Testing in the environments that you will deploy to reduces the need to rollback.

- Low: 46-60%
- Medium: 16-30%
- High: 0-15%

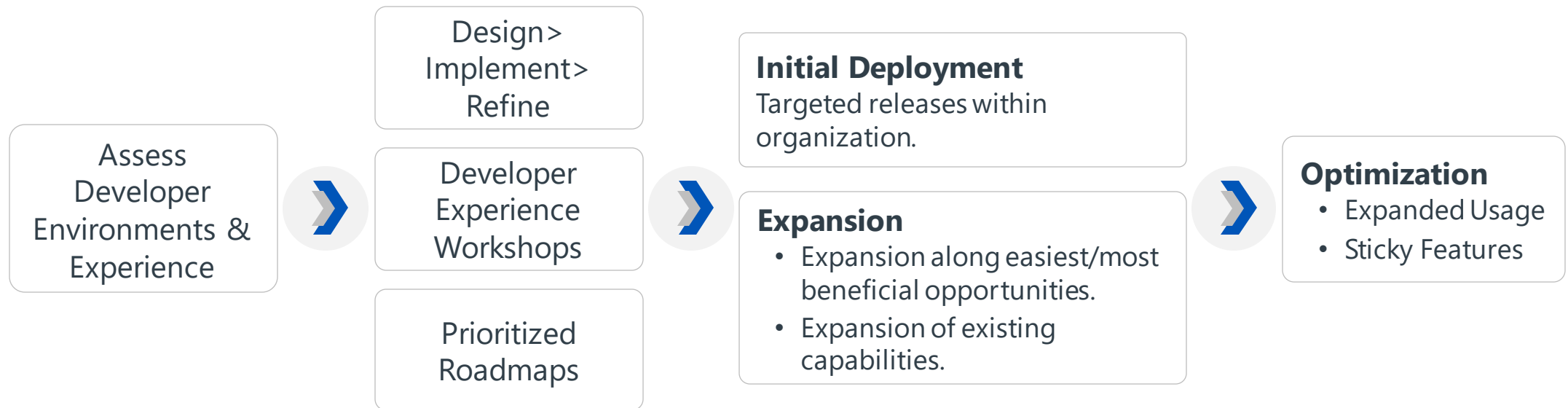


# OUR APPROACH FOR *DEVELOPER EXPERIENCE*



## Seamless and Accelerated Developer Experience Through DevOps

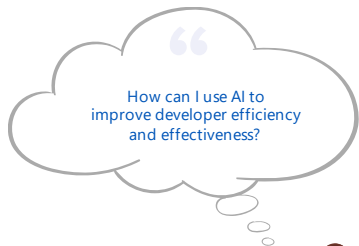
Change management, training, enablement and adoption are key to cementing organization change in developer experience.



**Training, Enablement, Adoption, and Change Management**







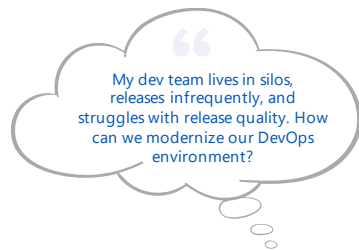
## GitHub Copilot MASTERCLASS

1 Day – 1 Week

Curated learning journey that offers hands-on workshops and deep technical insights for a comprehensive understanding of AI and GitHub Copilot.

- OpenAI and GitHub Copilot Basics
- Advanced Techniques for Efficiency & Productivity
- Getting Started with GitHub Copilot

Ask about our [GitHub Copilot Masterclass](#)



## DEVELOPER EXPERIENCE WORKSHOP

1 – 2 Weeks

Map current setup, discover the current procurement process, and analyze the current developer environment's needs. Includes thought leadership, strategies, and mentoring on the entire Developer Experience including:

- Internal Dev Platform
- Load Testing
- Test Data Management
- DevOps
- Developer Environment Provisioning

Ask about our [Developer Experience Workshop](#).



## DEVELOPER EXPERIENCE IMPLEMENTATION

8 – 12 Weeks

Deploy and configure the right developer experience platform for your team and appropriate Azure services such as:

- Microsoft Dev Box Implementation
- AI-generated Synthetic Test Data
- DORA (DevOps Research Assessment) Metrics
- Feature Flags
- Ring Releases



## DEVELOPER EXPERIENCE OPTIMIZATION

8 – 12 Weeks

Optimize existing DevOps and developer platforms using Azure technologies to target roadblocks or concerns in your current developer experience.

- Advance DORA (DevOps Research Assessment) Metrics
- Prepare for and Adapt to Economic Downturns
- Improve Developer Adoption of Modern DevOps Tools and Process
- Anticipate Future DevOps Maturity & Disruption



# Valorem Reply's DEVELOPER EXPERIENCE COMPASS

## Accelerator Solutions

### SYNTHETIC DATA GENERATOR

AI data generation tool for test production systems that automatically creates large test datasets that accurately mimic the characteristics, patterns, and statistical distributions of your production data.

### COPILOT AI KICKSTARTER

Accelerate Copilot integration with shoulder-to-shoulder expert guidance getting your team to integrate Copilot into an existing application or proof-of-concept.

### AI KUBERNETES SIDECAR

Scale AI modernization on a pod-by-pod basis with an add-on approach to your existing AKS application(s).



# DEVELOPER EXPERIENCE IMPACT

## Branching Strategy

Payment Services

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Branching strategy crafted to fit the diverse experience of a newly-formed team to deliver and track feature releases consistently.

## Production Lead Time

Professional Services, Engineering

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Reduced lead time.  
Integrated Infrastructure as Code in existing pipelines.  
Helped accelerate and work with moving to DevOps.  
Created test-data-management workflow.

## Ring Releases

Financial Services

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Worked with architecture and leadership to introduce ring environment and ring releases as a production environment.  
Started organization on ring maturity journey of testing in production, releasing faster, and automated feedback from production.

## Cloud Services

Technology Services

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Built and maintain customer-focused migration platform with fully automated customer experiences.  
Reduced human and manual efforts that cut cost per unit by 65%, eliminated data leakage and reduced migration team resource demands from hundreds to tens.



# **LEARN MORE ABOUT VALOREM REPLY'S DEVELOPER EXPERIENCE COMPASS**

Learn more: <https://go.valorem.com/Developer-Experience-Compass>

