

Testumgebung leicht gemacht mit Azure DevTest Labs

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 @JohnerStefan



Your DevTest investments are significant



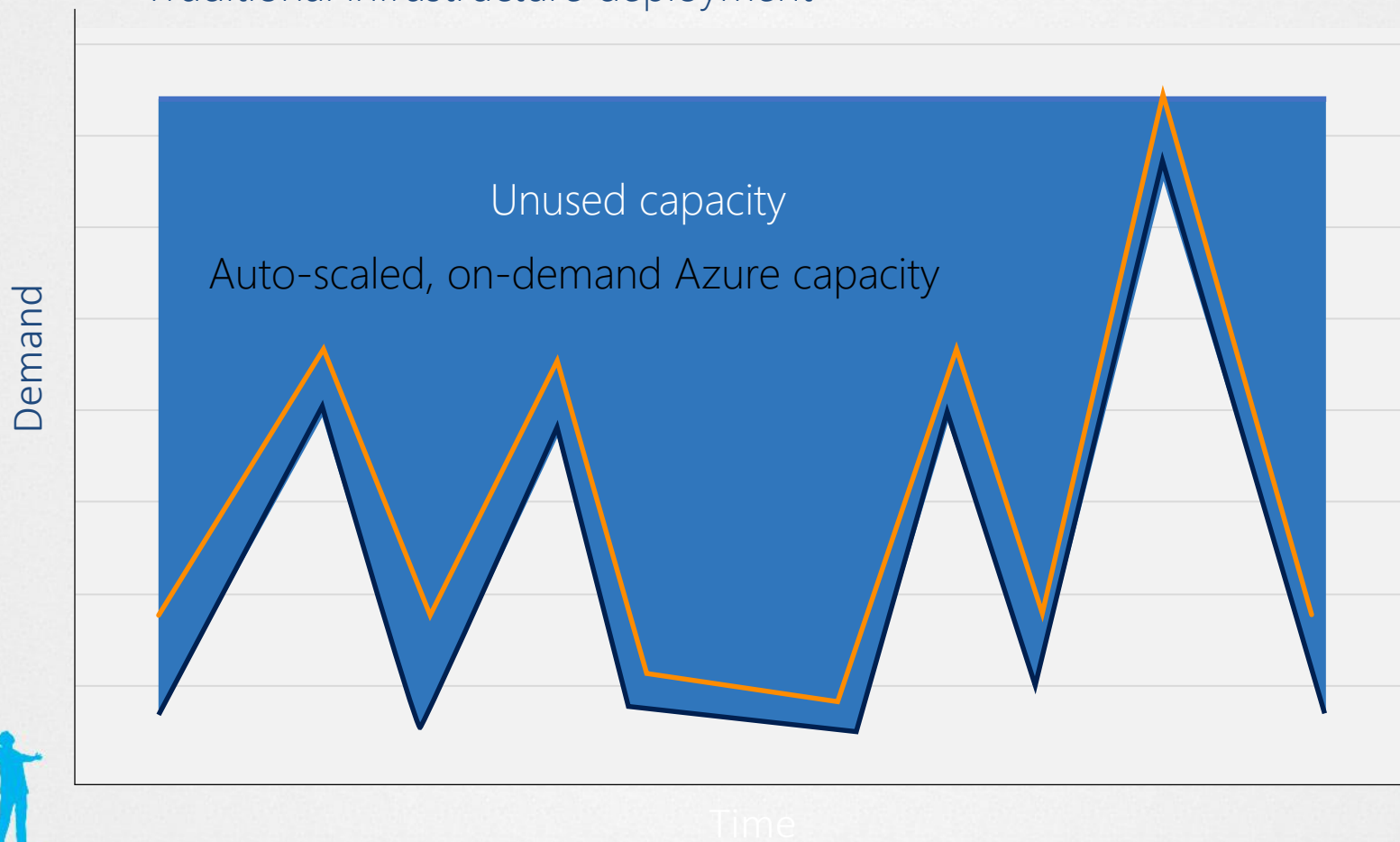
50%

of infrastructure spent
on non-production





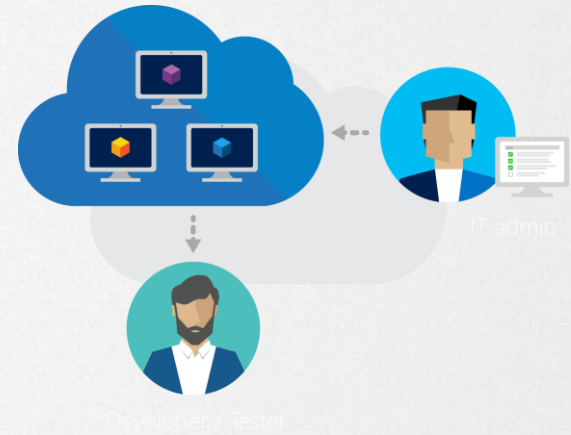
Traditional infrastructure deployment



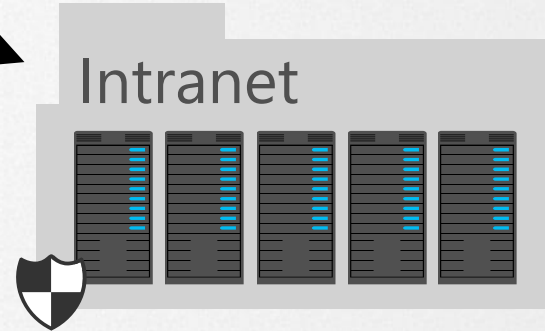


Azure DevTest Labs

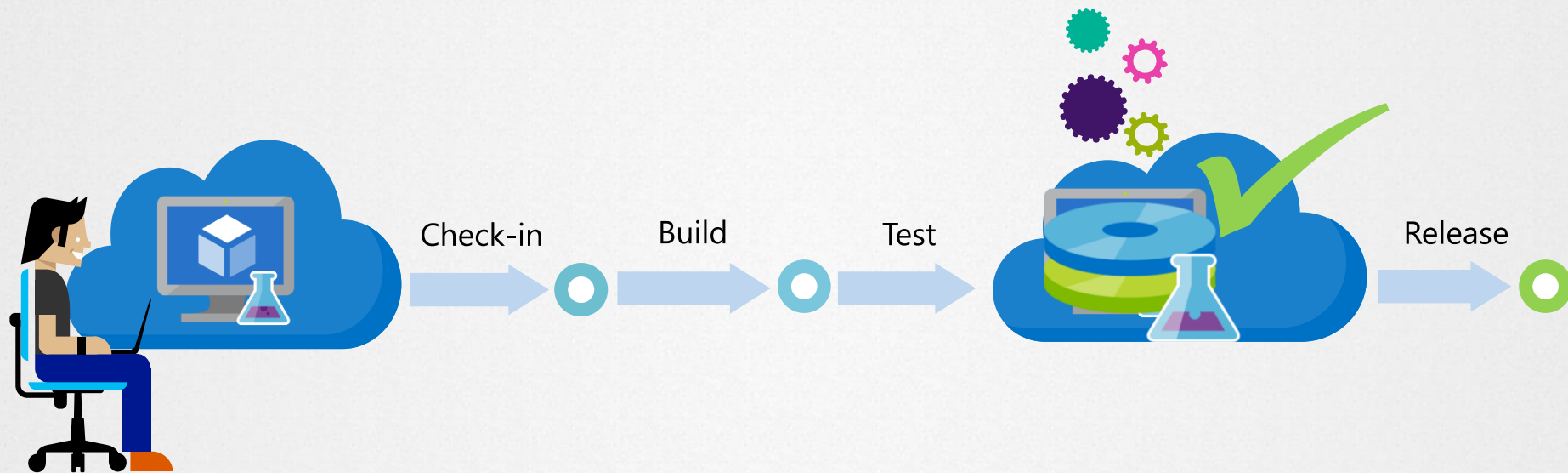
- Solution for fast, easy, and agile dev-test environments in Azure.
- Fast provisioning
- Automation & self-service
- Cost control and governance



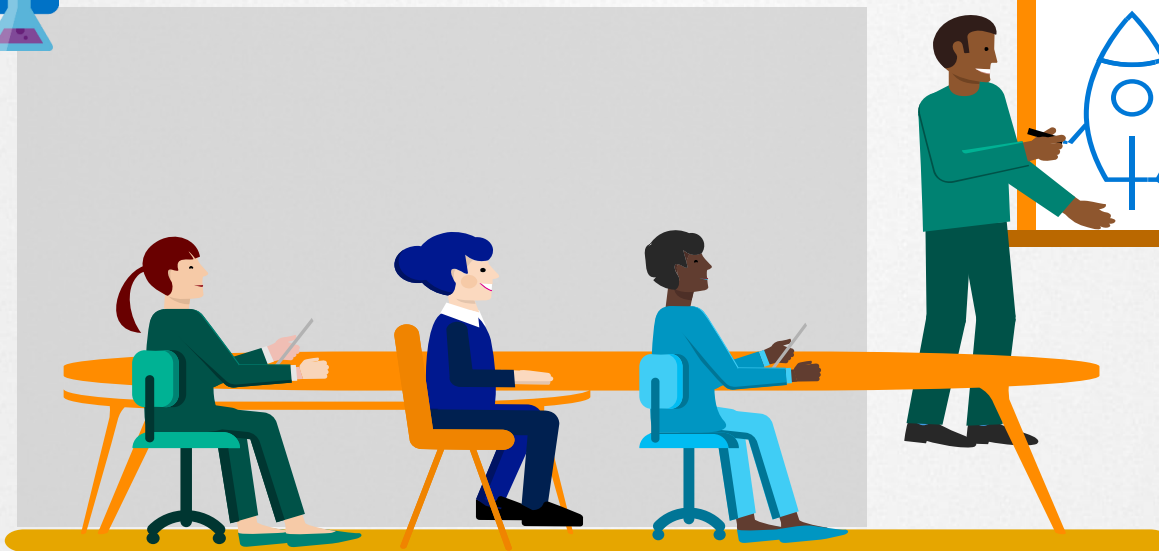
Developer Machines



Test environments

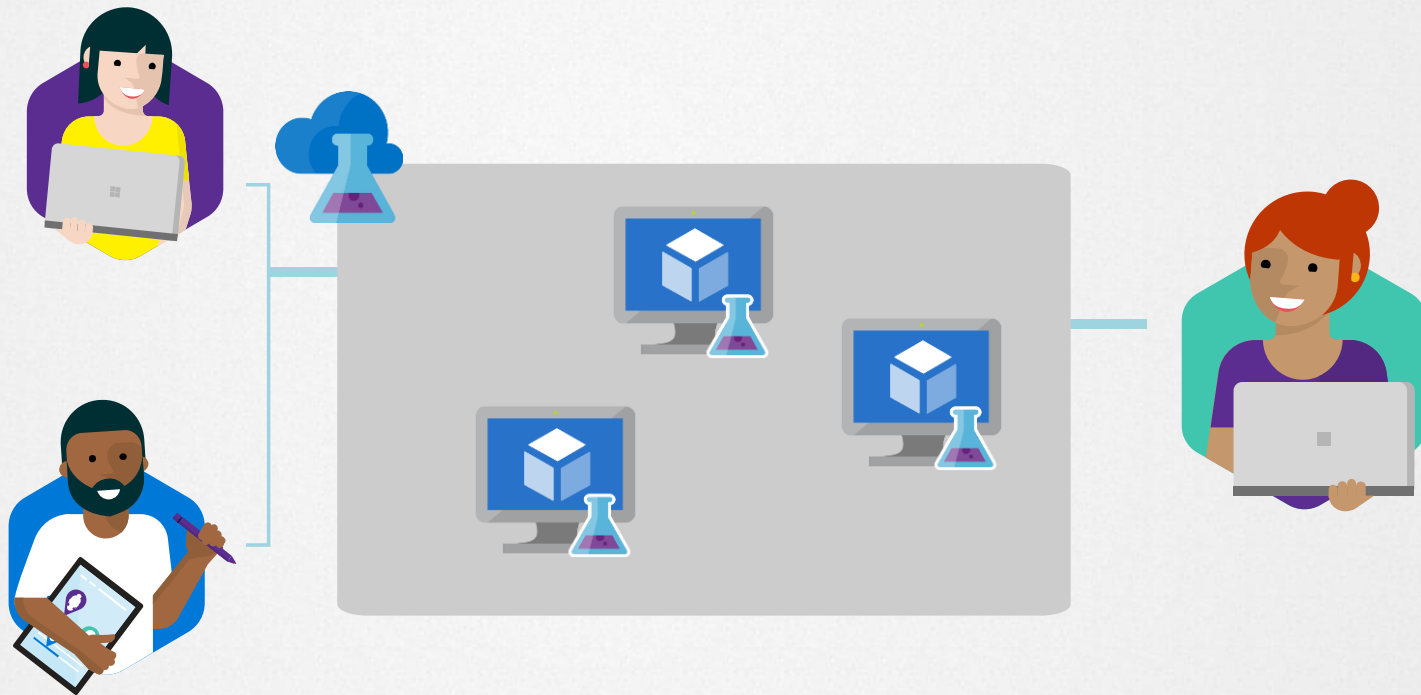


Training / Education



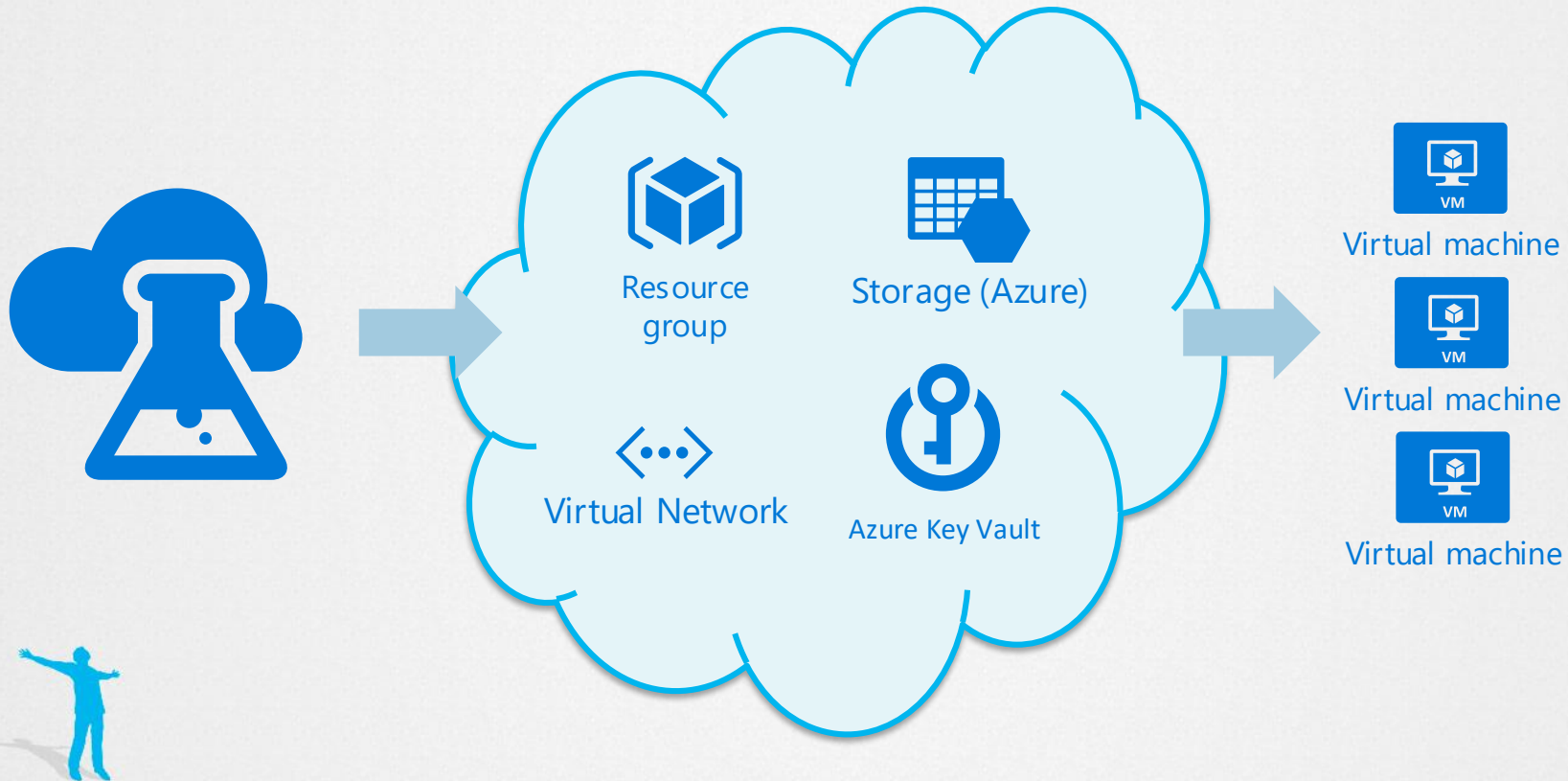


Trial / Demo

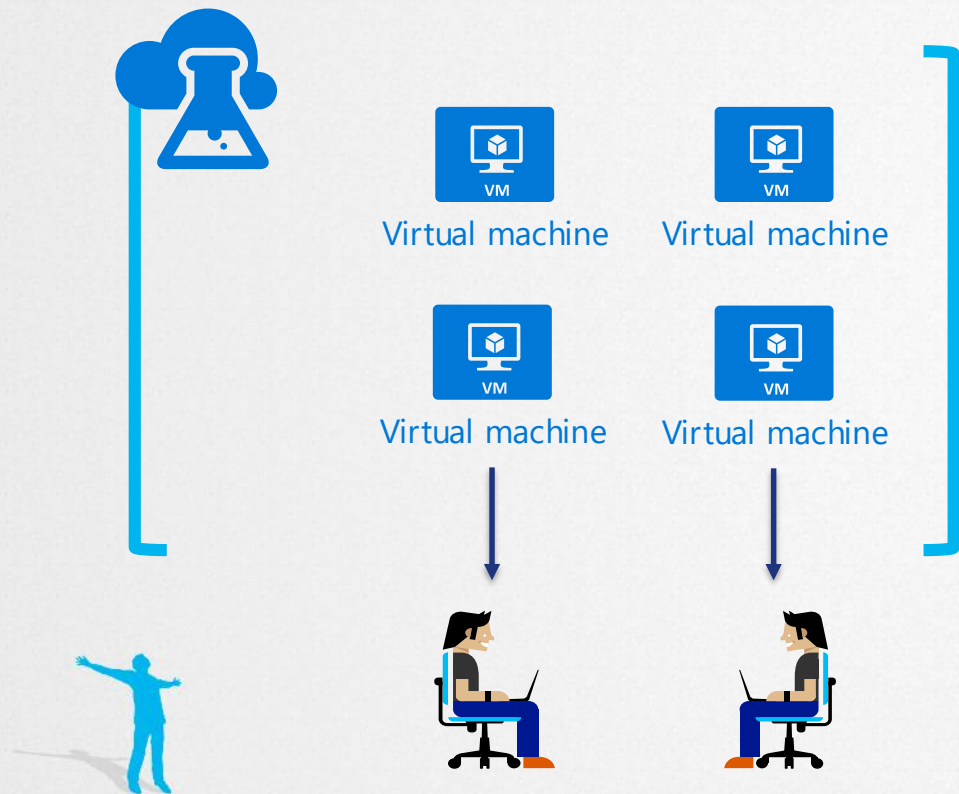





Behind The Scenes



Control your lab



- 
- Access
 - Images
 - VM Sizes
 - Number of VMs
 - Auto-Start/Shutdown
 - Virtual Networks



Demo

How to control your lab



Problem





How to provision?

- Marketplace provides Base Images
- Custom Images (create or upload)
- Add tools & software customizations via Artifacts
- Predefine dynamic images using Formulas
- Multi-Service environments using ARM templates
- Integrate into CI/CD tools like Visual Studio Team Services





Custom Images

Bright side:

- VM provisioning from a custom image is fast
- VMs created from a single custom image are identical.

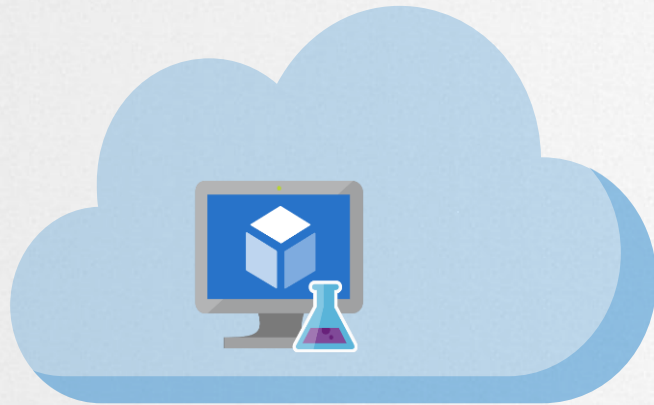
Down side

- If you need to update some aspect of the custom image, the image must be recreated.

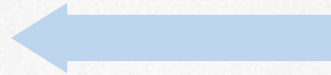




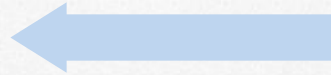
Artifacts



Default Repo



Other Repos





Formulas

Bright side:

- Changes in the environment can be captured on the fly via **artifacts**.
- Formulas can define default settings - such as VM sizes and virtual network settings.
- The settings saved in a formula are shown as default values, but can be modified when the VM is created.

Down side

- Creating a VM from a formula takes more time than creating a VM from a custom image.





Environments

Use ARM templates to deploy solutions

- Deploy multiple resources repeatedly
- Can contain PaaS resources
- Appear in cost tracking
- No Auto-Shutdown for PaaS





CI/CD Pipeline Integration

DevTest Labs Tasks are build/release tasks which allow you to integrate with Azure DevTest Labs

- Create VM
- Create Custom Image
- Delete VM





Power of Combo

- Auto-deploy VMs for Testers when releasing new build
- Use Artifacts and Custom Images together with VSTS





Demo

How to provision





Why DevTest Labs

- Quickly be «ready to test»
- Azure DevTest Labs service is free
- Don't worry about VNets, Resource Groups, etc.
- Control dev/test environments with ease
- Integrates with your existing toolchain





How to get started

- Azure DevTest Labs
<http://aka.ms/adt>
- DevTest Labs Team Blog
<https://blogs.msdn.microsoft.com/devtestlab/>
- DevTest Labs Documentation
<https://docs.microsoft.com/en-us/azure/devtest-lab/devtest-lab-overview>
- DevTest Labs MSDN Forum
<https://social.msdn.microsoft.com/Forums/en-US/home?forum=AzureDevTestLabs>
- Azure DevTest Labs artifacts, scripts and samples
<https://github.com/Azure/azure-devtestlab>



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