aws

Amazon WorkSpaces for Developers

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Challenges supporting developers

Developer productivity

- Under-investment in the tools they need to get their job done

- Constant dev rebuilds are time consuming

- Slow network speeds from remote locations

IT operations

- Logistics of deploying workstations around the globe

- Providing efficient access to dev teams increasingly remote

- Protecting developer workstations against malicious threats

Target user groups

- Software developers & testers

- Game developers & testers

- Data & Machine Learning scientists

- Media & entertainment video artists

Amazon WorkSpaces benefits for developers & IT

Maximize developer team productivity

Enhance security & compliance enforcement

Lower workstation costs & address supply chain constraints

Maximize developer productivity

Faster workstation builds

- Request WorkSpaces workflow
- Preconfigured – no install

Self-service workstation changes

- Change WorkSpaces size
- Adjust disk volume size
- Rebuild WorkSpace

Reduce the low bandwidth bottleneck

Smooth, like local app experience using WSPv2 remoting protocol

Enhance security & compliance enforcement

Security

- Maintain control over source code - no downloading

- Reduce data leakage risk

- Lower exposure to supply chain malicious threats

Compliance

- Automated WorkSpaces service patching

- Audit logging & reporting

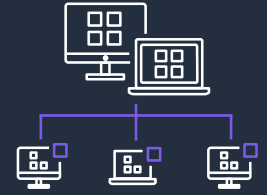- AWS cloud secure and compliant architecture

Lower workstation costs

Overcome supply chain constraints with alternative devices:

- BYOD

- Repurpose existing PC

Usage-based workstation billing vs CAPEX:

- Hourly or monthly billing

- Cost optimization tools

Instances and billing

- 118 Bundle Types (CPU, RAM, Storage, networking)
- Hourly or monthly billing

Ubuntu 22.04

Amazon Linux

Windows 10 BYOL

Windows Server 2019

Windows 11 (coming soon)

Ubuntu WorkSpaces

Ubuntu 22.04 LTS with GNOME desktop

NEW!

- 15 AWS regions, maximizing performance
- 20 Bundle Types
- Hourly or monthly billing
- Web and Windows access clients
- SAML, AD authentication
- Latest WSPv2 protocol
- End user self-service

Integrations

Active Directory GPO support

AWS SDK and CLI pre-installed

Ubuntu vs Amazon Linux WorkSpaces

Ubuntu -22.04 LTS

preferred for open source development

- Desktop OS

- Dev tools that run only on Ubuntu or require ISV certification to obtain support.

- Docker support

- AWS SDK, CLI pre-installed

- WSPv2 & Windows and Web Client

Amazon Linux

- Server OS

- For users with no Linux OS preference

- No OS requirements by dev tool ISVs

- AWS SDK, CLI pre-installed

- PCoIP, Windows client

Ubuntu WorkSpaces

KEY CAPABILITIES

Supported

- 14 regions

- 20 bundle types

- MFA, SAML, AD & 3rd party IdP authentication

- AD Group Policy support

- Web and Windows clients

- WSPv2*

Not Supported

- Smartcard auth

- Mac, Linux clients

- BYOL

- GPU bundles**

* Real time video/audio, printer & clipboard redirection, 4K, web cam, multi-monitor
** coming soon

Software and Game Developers

Challenges

- Maximize development resources due to global shortage of software engineers.

- Rapid releases of new software builds requires developers and testers to constantly reimage machines and install new builds which is time consuming.

- Need to protect source code when using 3rd party contract developers and testers.

Solution

Quickly set-up dev environments from centrally controlled images abstracted from hardware

Benefit

Enable developers to self-provision workstation instances without downloads

Benefit

Accelerate developer time to productivity