AWS re:Invent

CMP220-R

Remote desktop and application streaming with NICE DCV

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AWS re:Invent

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aws

Agenda

What’s remote streaming?

What is NICE DCV?

Benefits and use cases

Key features

Demo

Pricing and support

Remote streaming is everywhere around us



Music

Amazon Music



Video

Prime Video



Gaming

Twitch



Desktop

Amazon WorkSpaces



Application

AWS AppStream 2.0



High performance remote visualization for AWS and On-Premises

NICE DCV specializes on 2D/3D interactive streaming



Music



Video



Gaming



Desktop



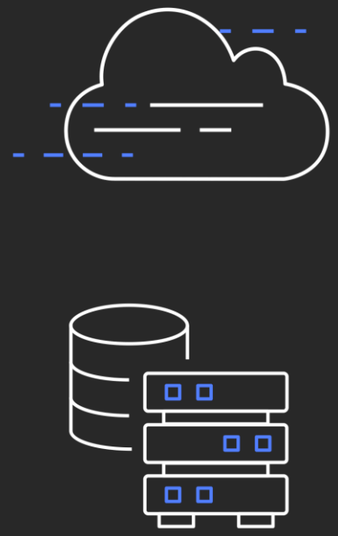
Application

NICE DCV encrypts and transports pixels to devices

Local Clients



Transfer pixels, not data!



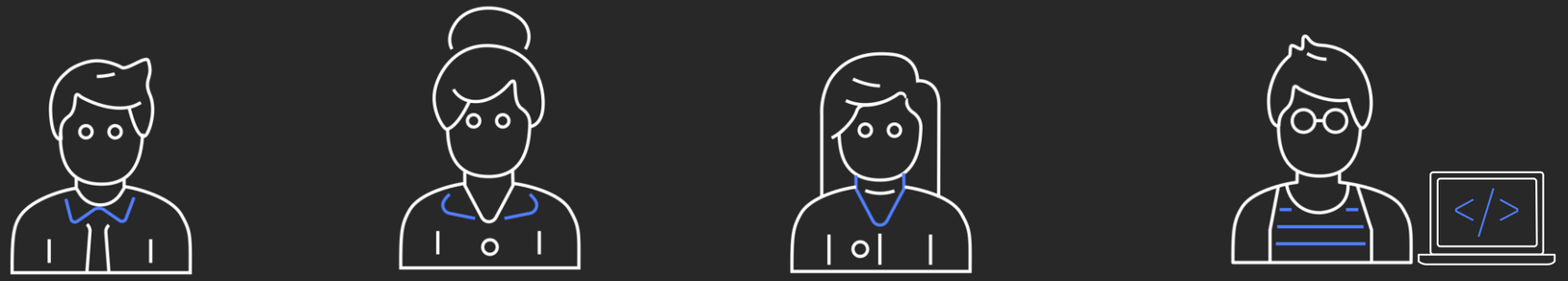
Remote Servers

Users can access, manipulate and share business-critical information regardless of their location, over LAN or WAN networks

DCV serves both enterprises and developers

Enterprise Direct Use

Building Block



Business Users

Artists

Engineers

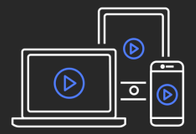
Developers

Why DCV?



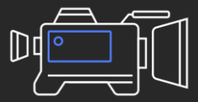
Run anywhere

Scale globally using Linux or Windows on any cloud or on-premises



Access everywhere

Offers web client and Windows, Mac, and Linux thin clients



Enhance performance

Delivers a high performance user experience even for most graphics intensity needs



Realize cost savings

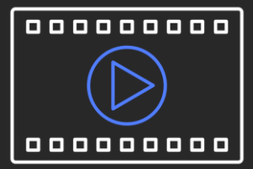
Leverages virtual sessions and diverse set of instance types to fit your needs



Secure your data

Encrypts and transports pixels to enable centralized control of your apps and data

DCV has been adopted by diverse industry verticals



Media & Entertainment

DCC & Rendering



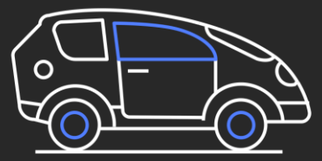
Healthcare

Medical Imaging



Geo Sciences

Reservoir Simulation



Manufacturing

Engineering Simulation



Business & Productivity

Remote Desktop &
App Streaming



Education

Collaborative
Sessions

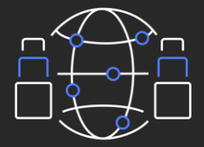
Amazon AppStream 2.0 also uses DCV technology



Securely deliver desktop
applications to any computer



Centrally manage applications



Scale without infrastructure



Secure applications and data



Integrate with IT

Amazon AppStream 2.0 vs. NICE DCV

AppStream 2.0



Fully managed

Windows Only
AWS Only
Scale without infrastructure
Separate pricing plan

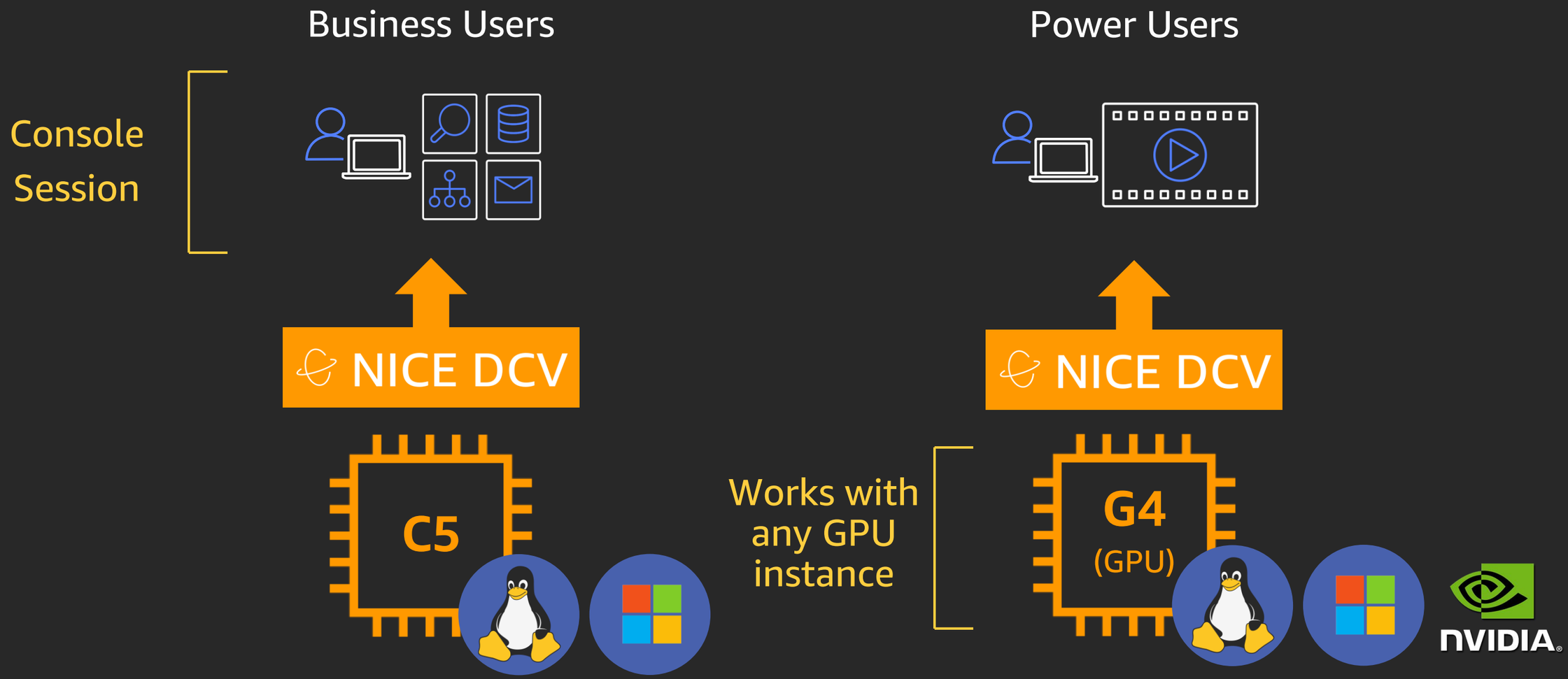
NICE DCV



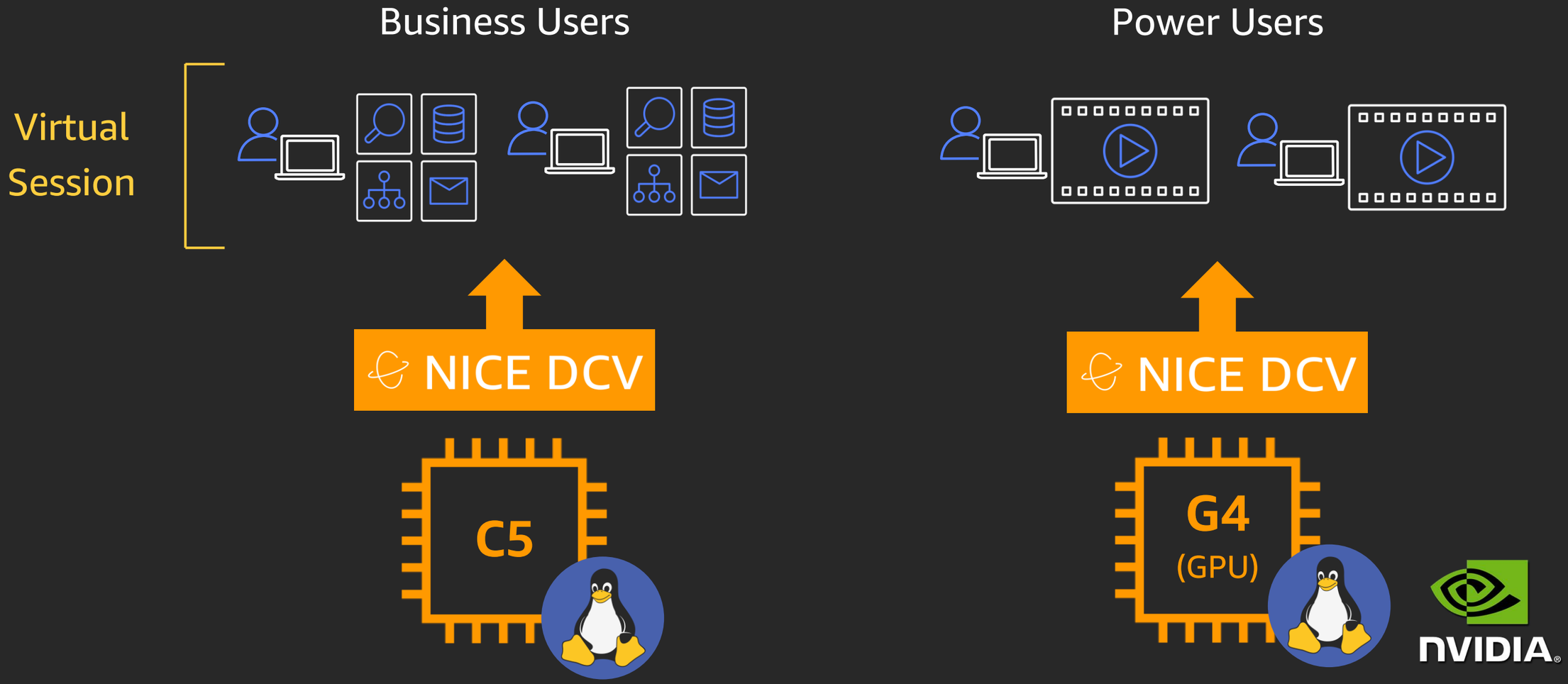
Do-it-yourself

Windows & Linux
AWS & On-premises
Need manage infrastructure
Only pay for instance time

DCV architecture on AWS



DCV architecture on AWS



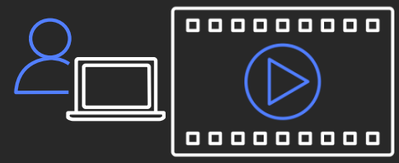
DCV architecture on-premises

Business Users

Power Users

Console Session

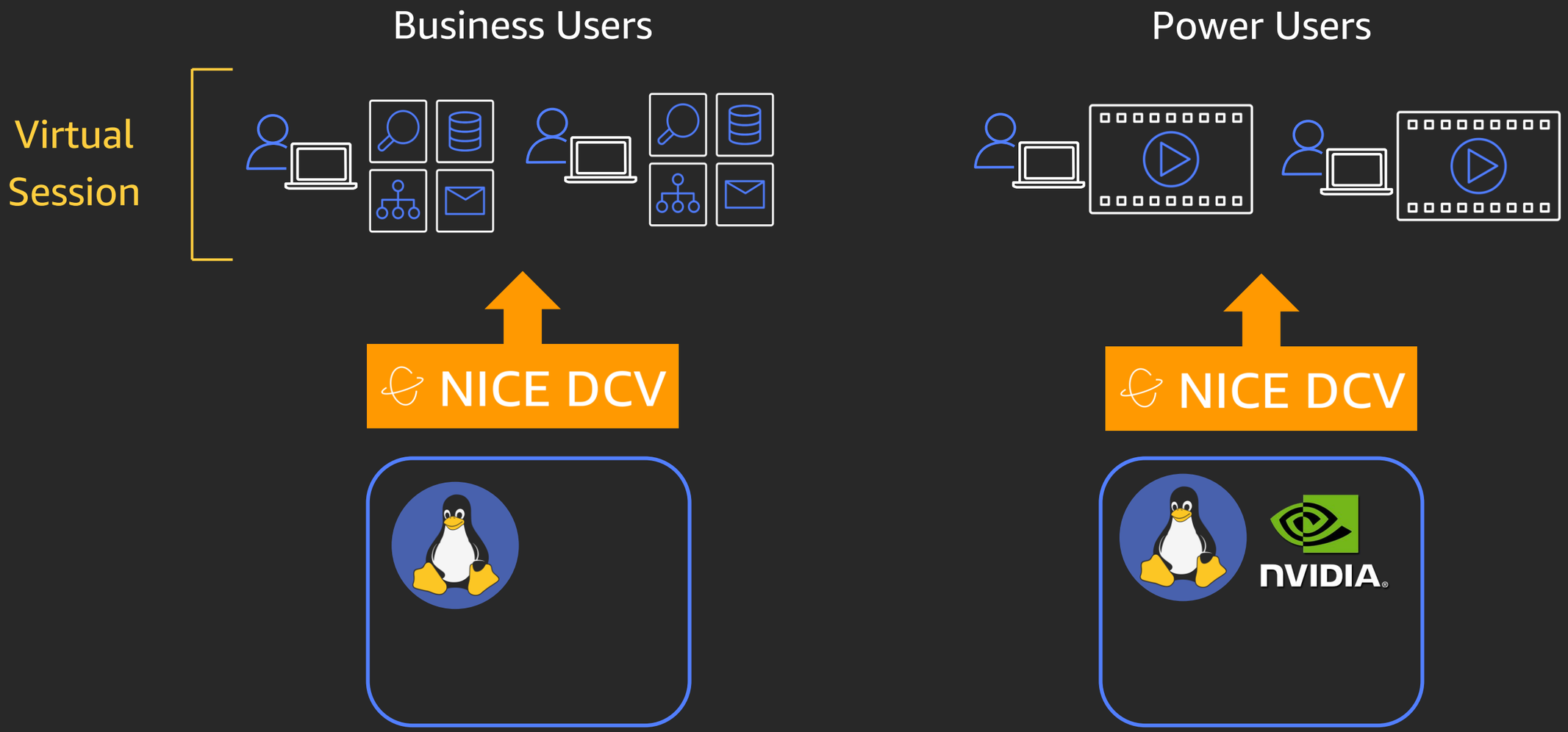








DCV architecture on-premises

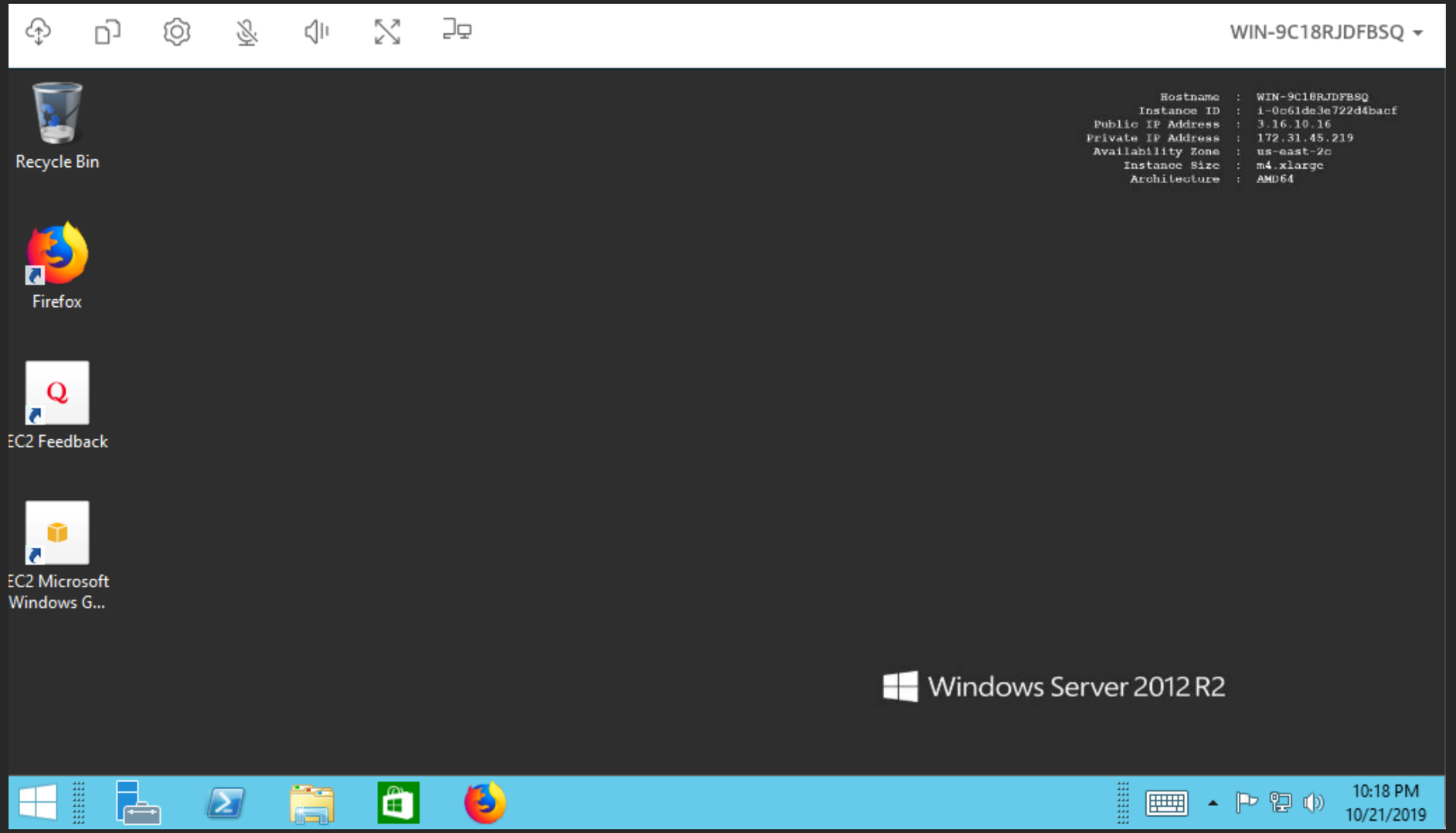


DCV Features

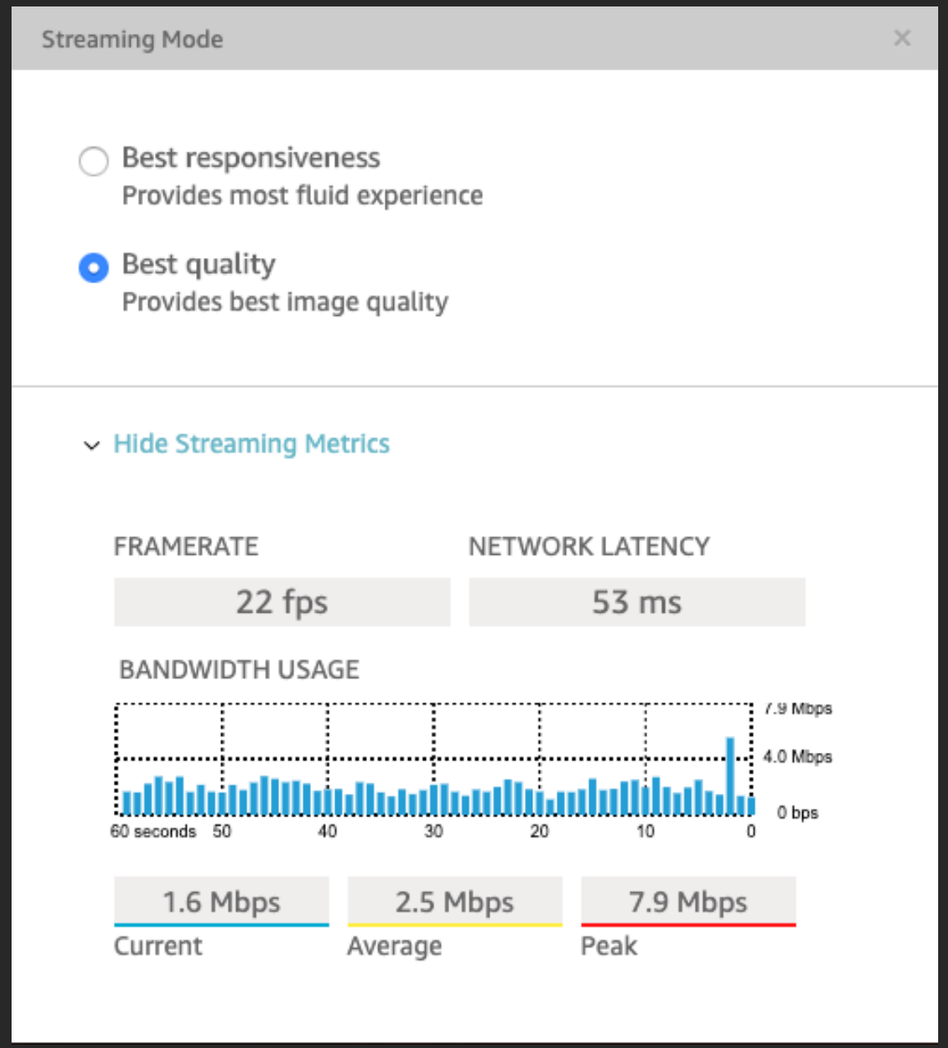
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Share the entire desktop

DCV enables full control of the entire desktop



Adaptive streaming based on network conditions



DCV automatically adapts the video compression levels based on the network's available bandwidth and latency

Compression and adaptive resizing

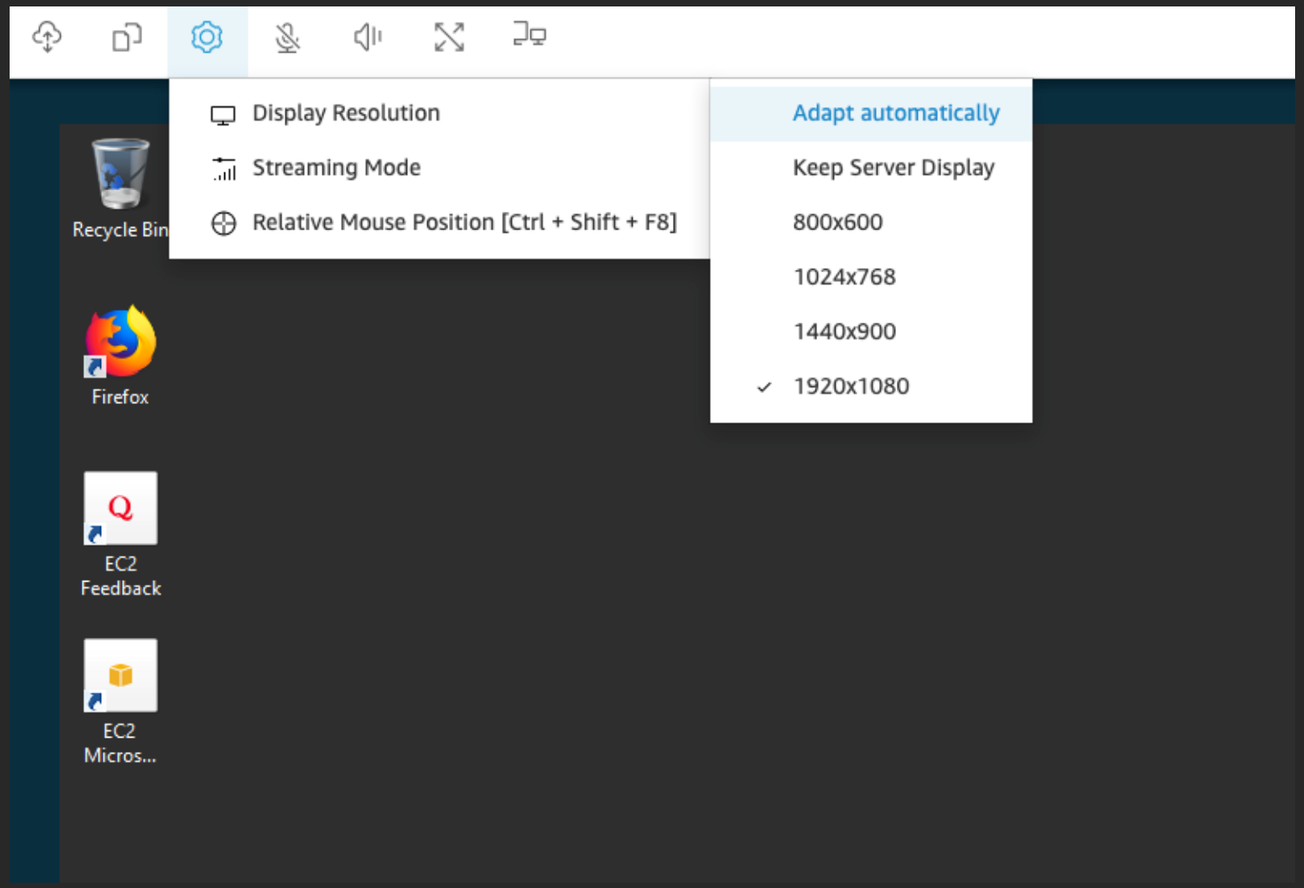
Update to Lossless

DCV utilizes H.264-based video compression and encoding to reduce bandwidth consumption.

When the network and processor conditions allow, DCV automatically updates to full lossless those parts of the image that’re not changing.

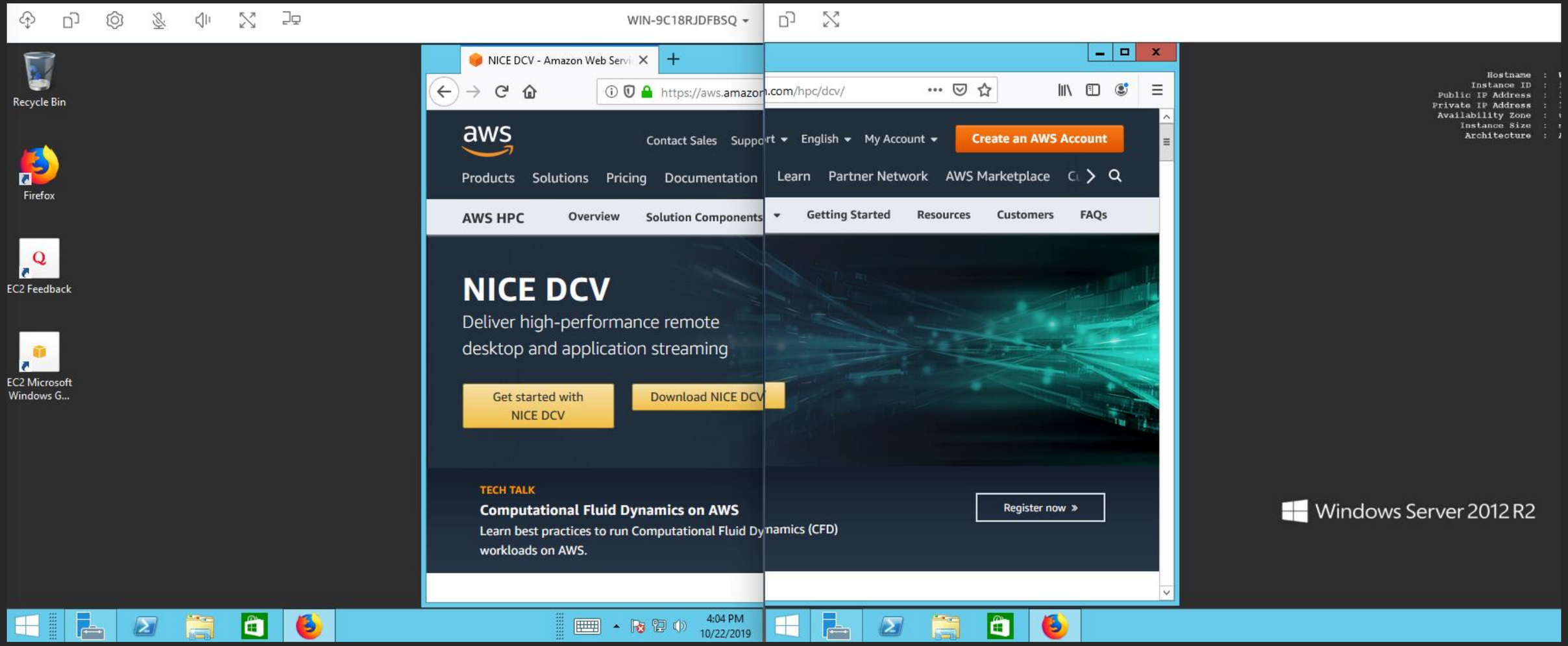
Simple resizing

DCV automatically adapts the server's screen resolution and display layout to match the size of the client window.

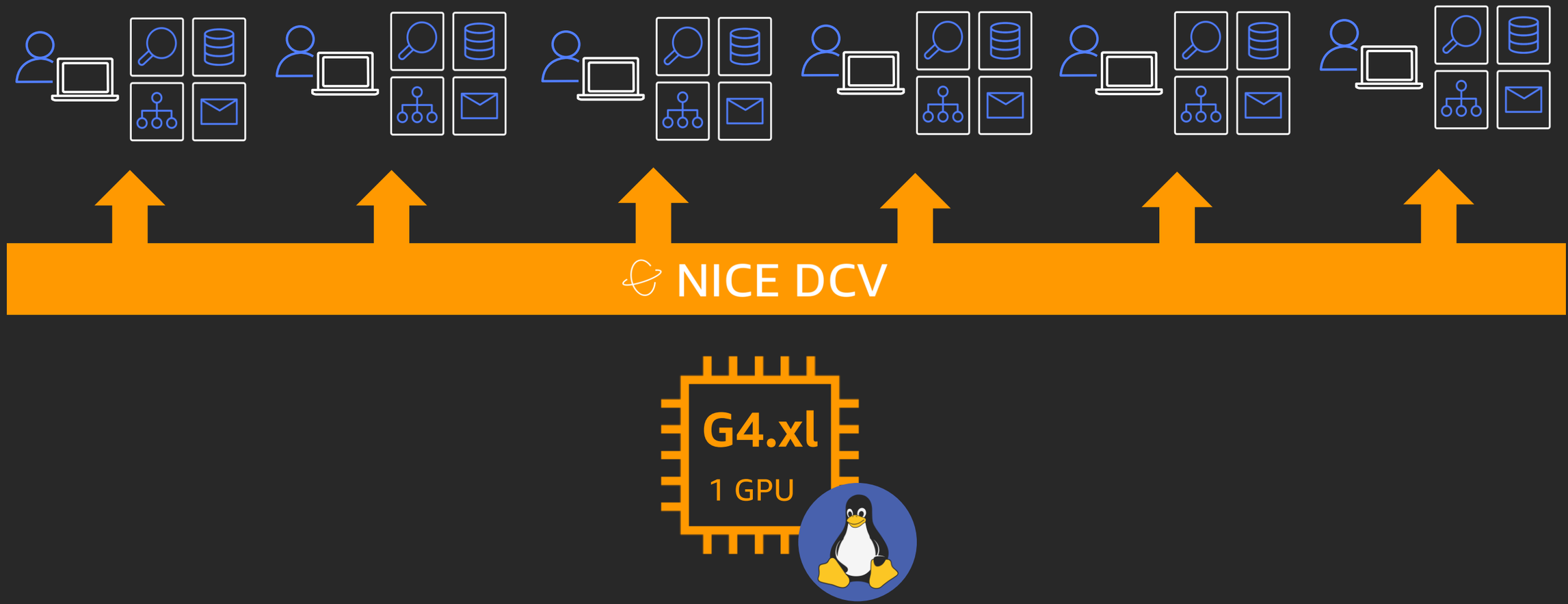


Multi-monitor support

DCV supports up to 4 monitors



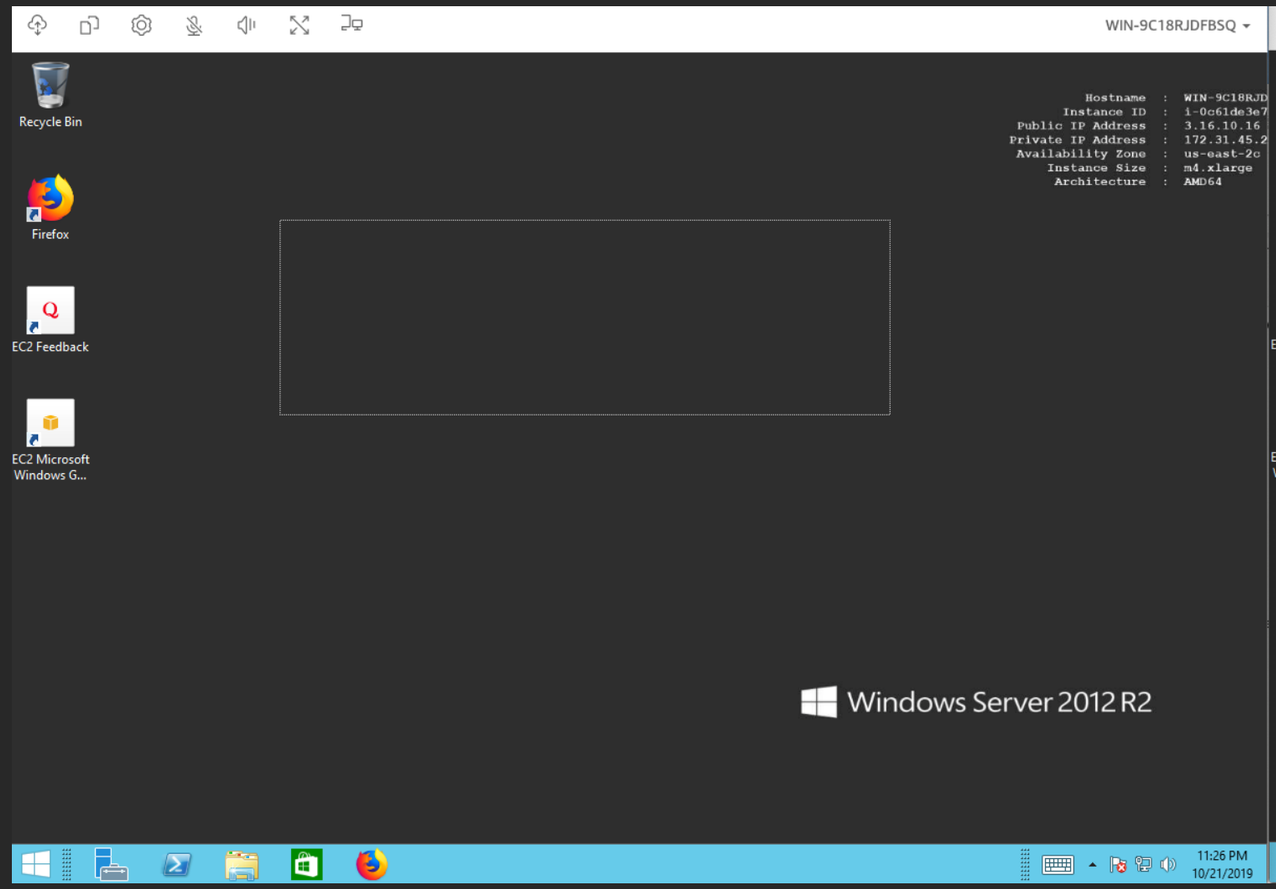
GPU Sharing using virtual sessions

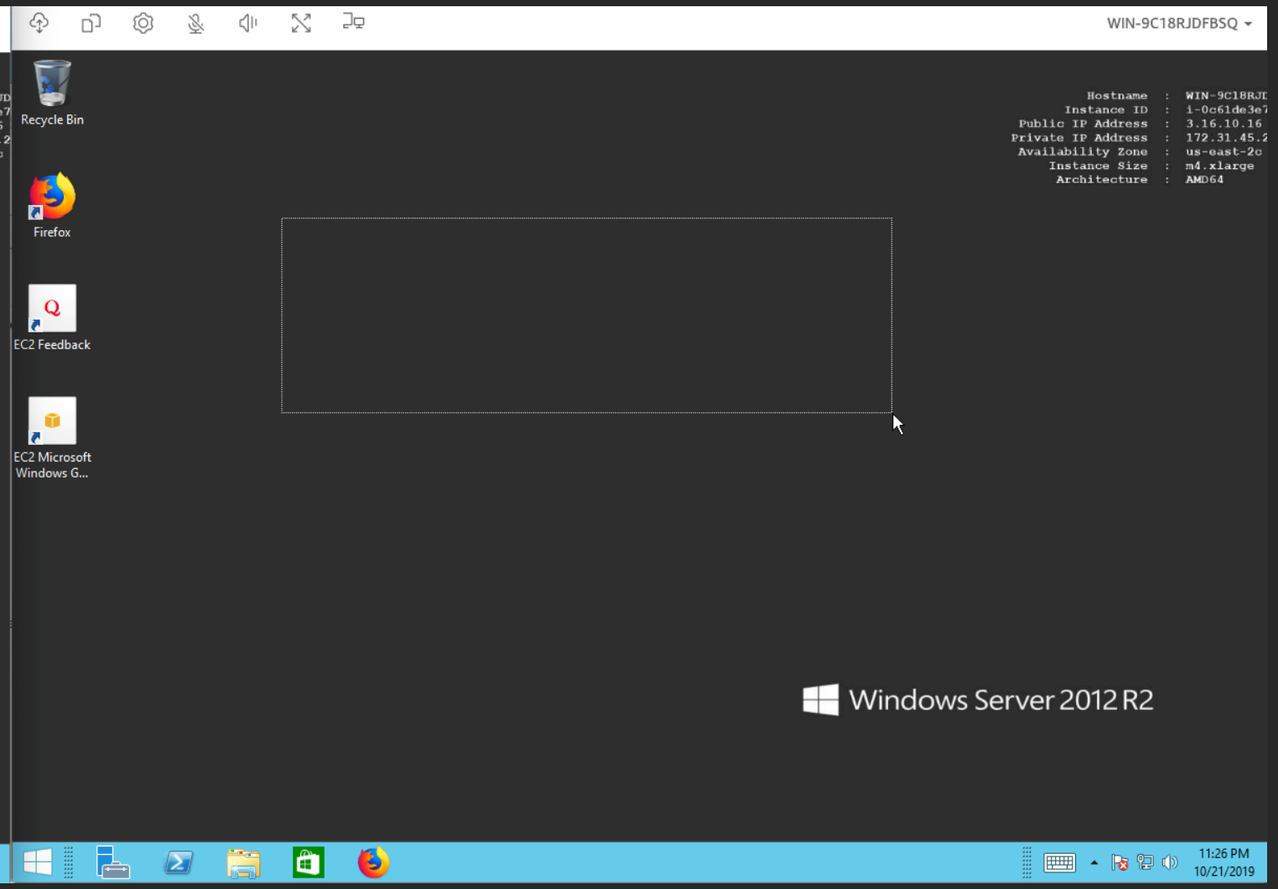


Multi-client collaboration made easy

DCV provides sessions that support multiple collaborative clients

Sessions are dynamic and clients can connect and disconnect at any time





Audio, printing, and copy & paste



Supports both audio in and out; 7.1 surround sound coming soon



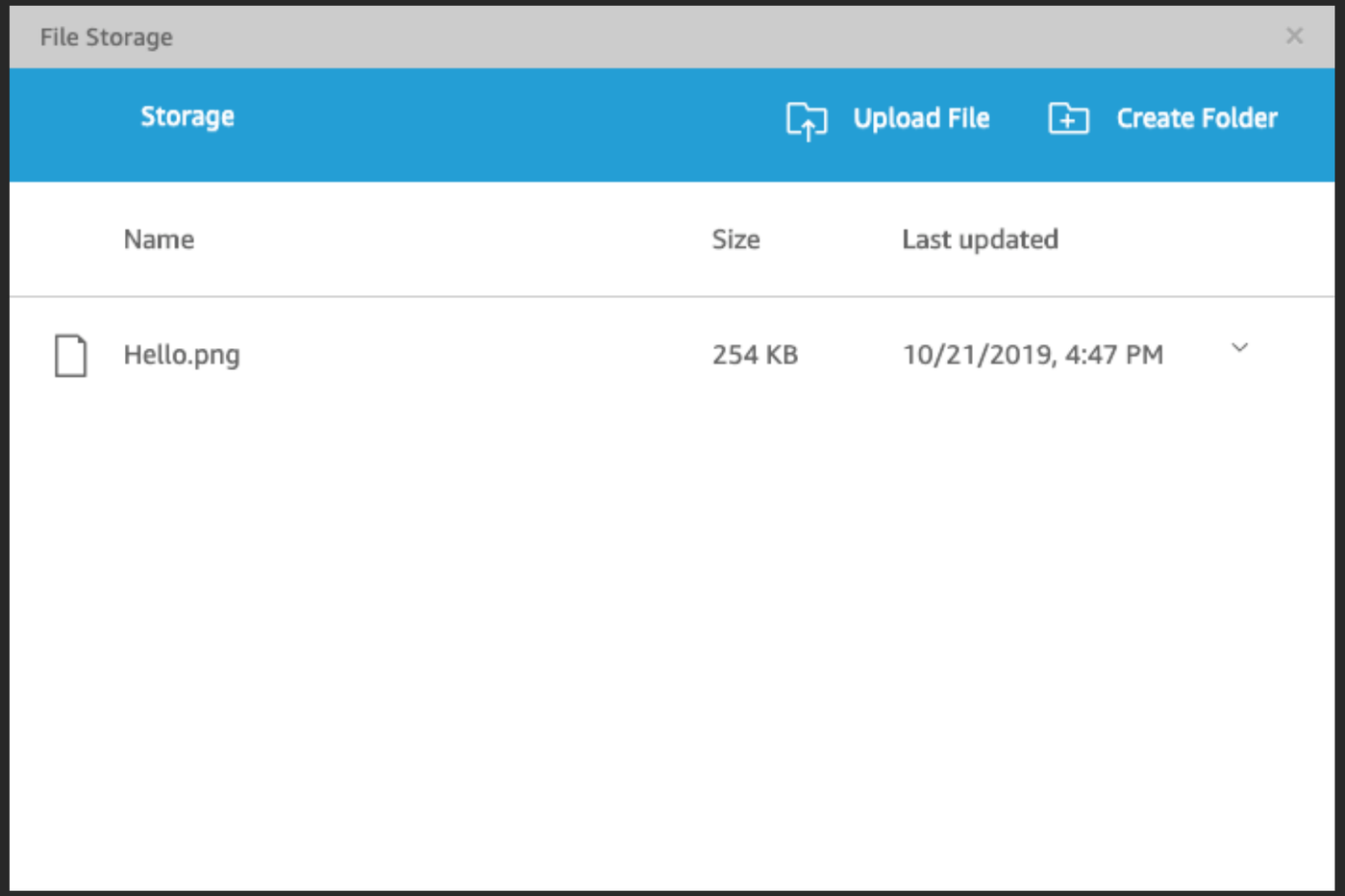
Supports printing of documents from within a DCV session



Supports copy and paste text between local computer and the DCV session

File transfer

DCV makes it easy to move files between DCV session and local computer



Peripherals

USB support

DCV enables you to use specialized USB devices, such as 3D pointing devices and graphic tablets to interact with an application running on a NICE DCV server. Requires installable Windows client.

Smart card support

DCV provides seamless access to local smart cards using the Personal Computer/Smart Card (PC/SC) interface. Requires the native Windows NICE DCV client and a Linux NICE DCV server.

Stylus support

DCV introduces stylus support for artists and designers. Requires Windows client and Windows server.

Features by use case

	Graphics Applications	Productivity Applications	Support and Collaboration
Requirements	High Performance Large Screens 3D support May run on cluster head nodes	Interactivity Clipboard File transfer Do not require a GPU	Share desktop on demand Collaborators access
Features	Leverages GPU for compression GPU sharing on Linux Support for high resolutions	Adaptive streaming CPU compression Clipboard File transfer Audio	Collaboration Flexible authentication and authorization Dynamic session management

Getting Started with DCV

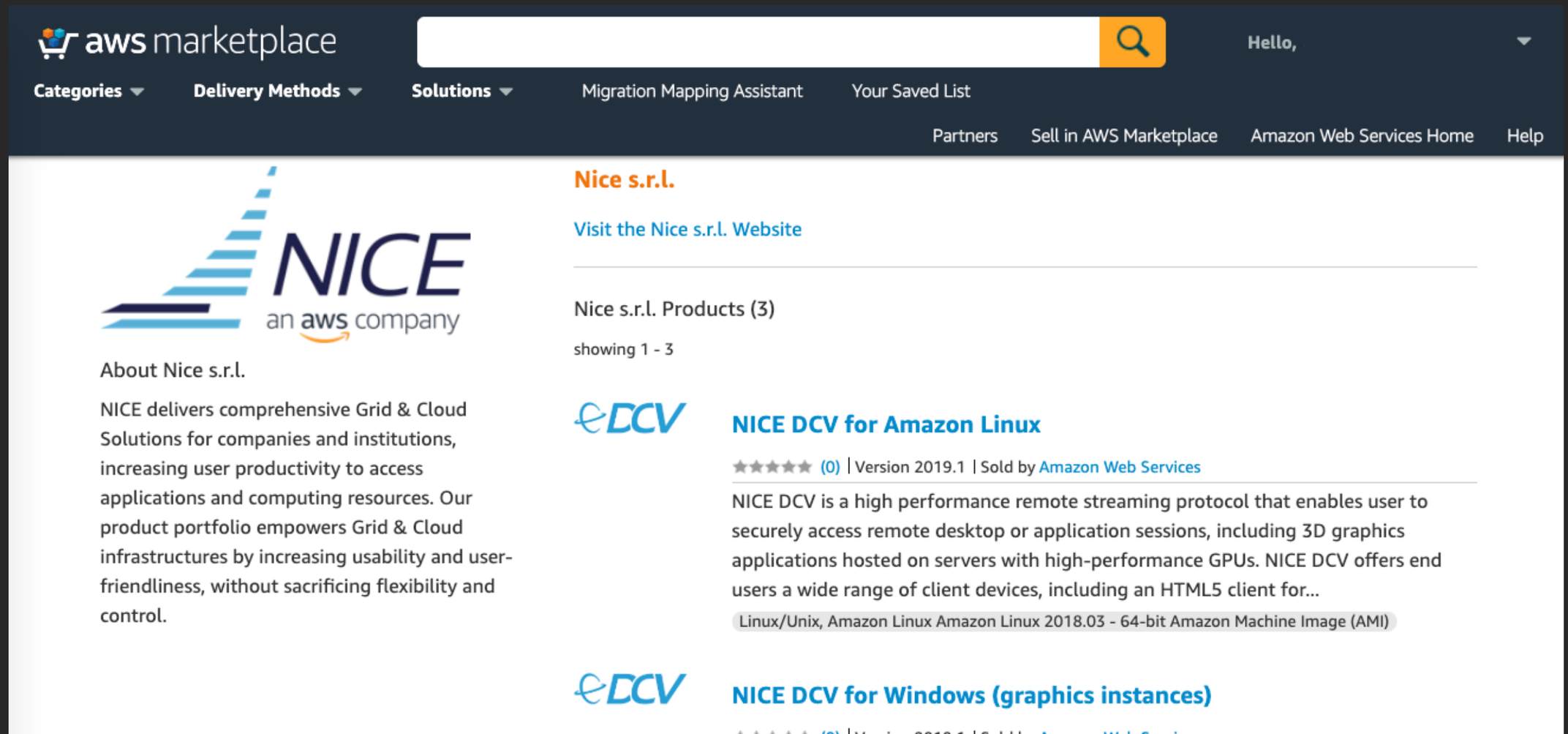
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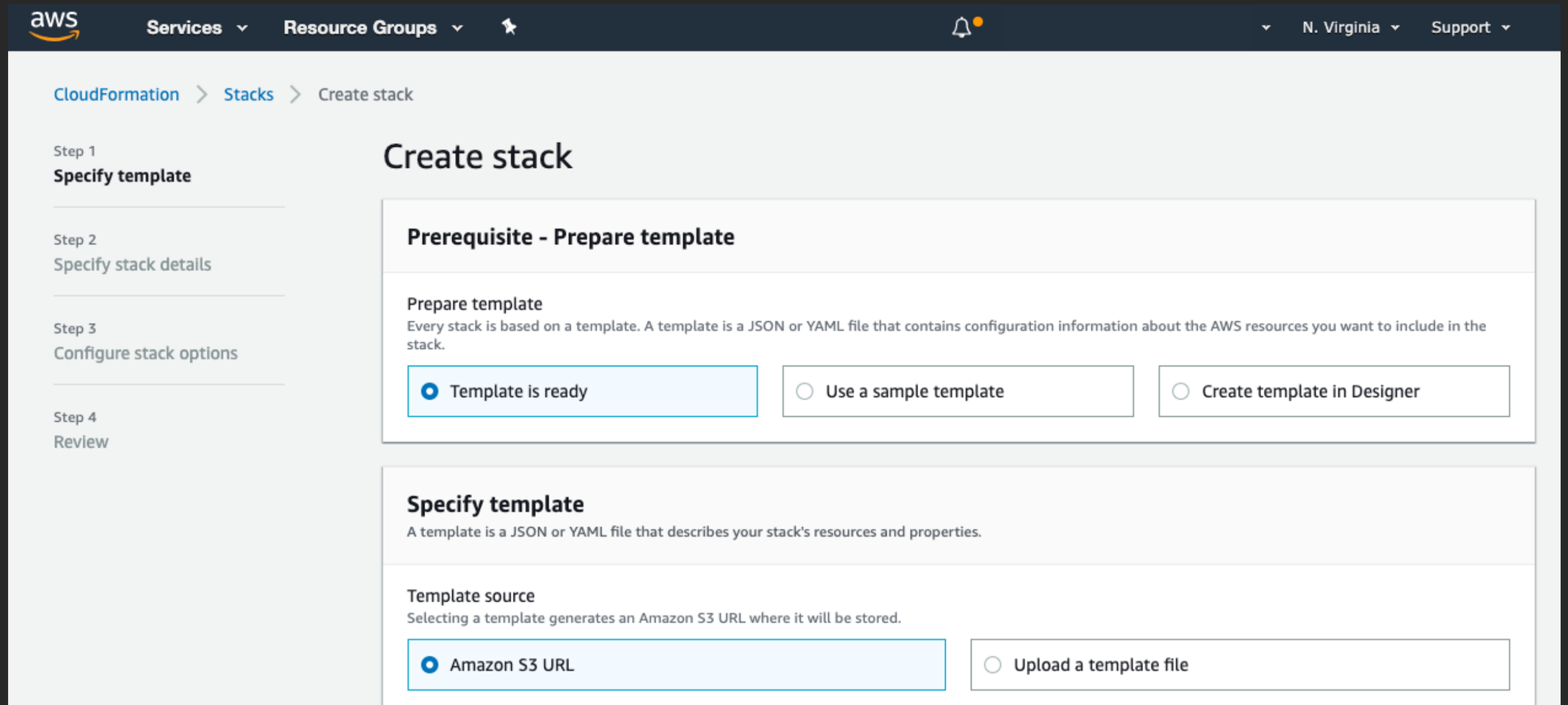
Three ways to use DCV

#1 – NICE DCV AMI on AWS Marketplace



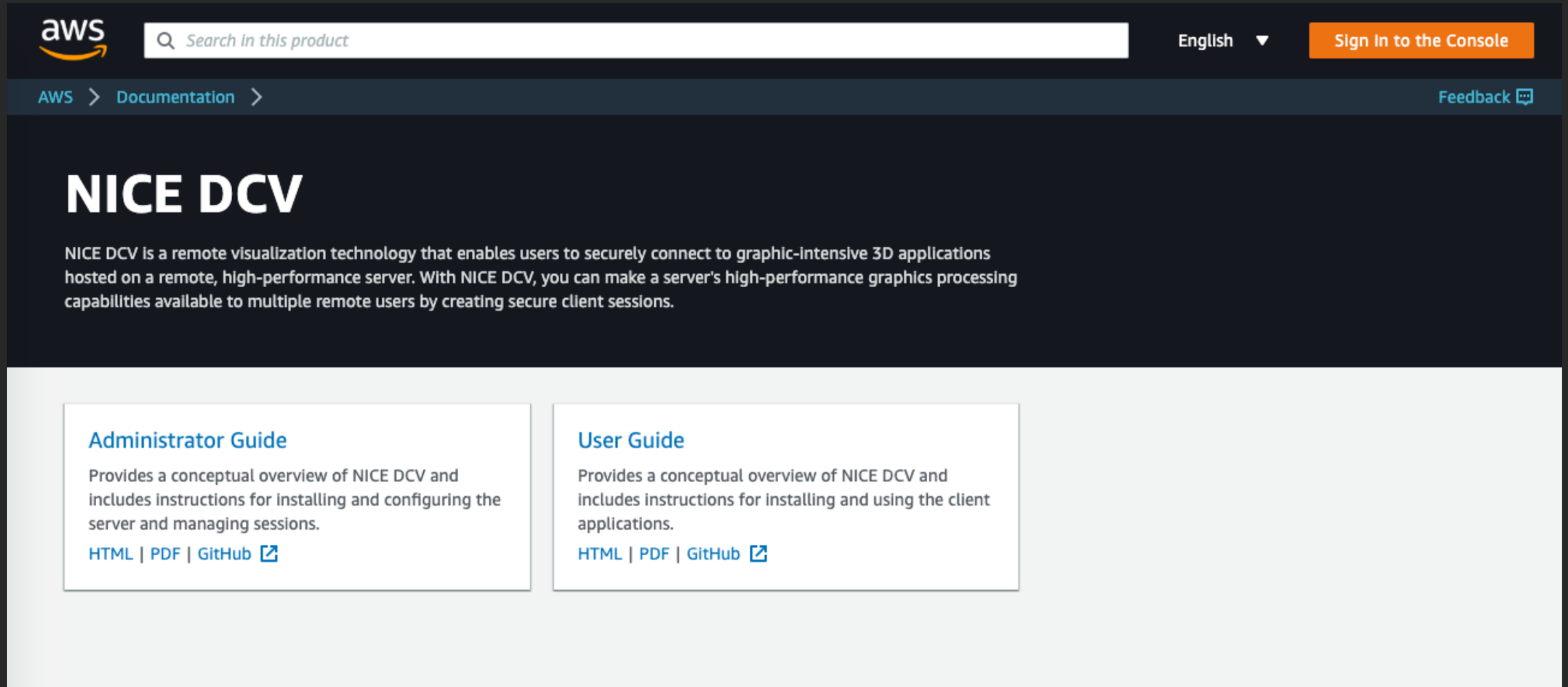
Three ways to use DCV

#2 – Deploy NICE DCV on Amazon EC2 with AWS CloudFormation



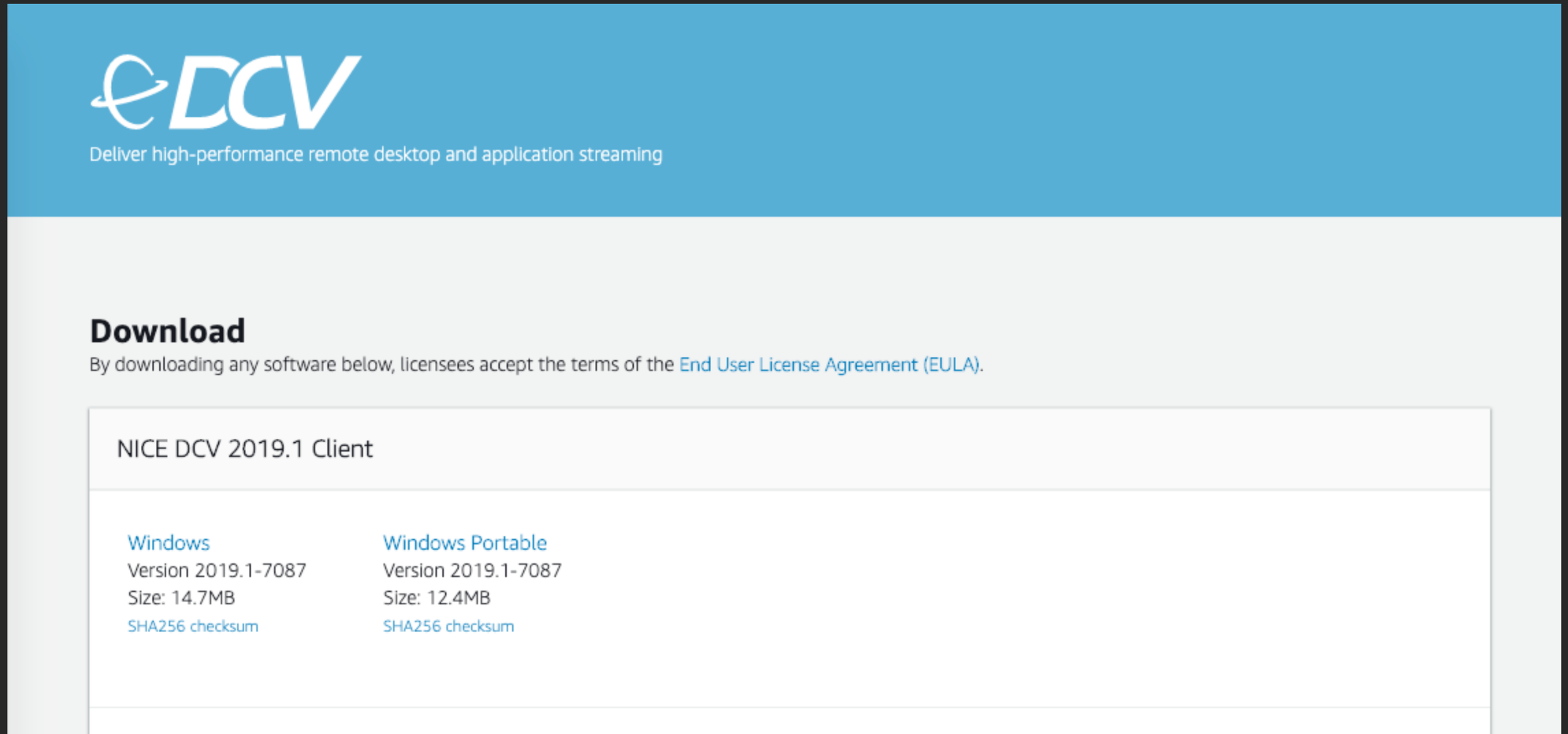
Three ways to use DCV

#3 – Manual Installation



All three methods can be accessed from here

https://download.nice-dcv.com



Demo

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Pricing

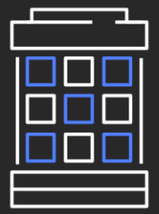
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NICE DCV has two licensing modes



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Buy DCV licenses from one of our resellers for on-premises use cases. DCV uses Reprise RLM.

- Floating license model
- License check-out at session start
- Heartbeat check
- Two licensed product features: “dcv” and “dcv-gl”
- https://support.nice-software.com/

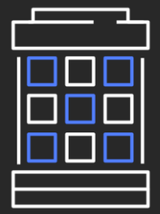
Support

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Where to find support?

Contact AWS Support

DCV is covered under AWS Support plans



Contact NICE DCV directly

Visit https://support.nice-software.com/

Thank you!

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