UDS Cloud on AWS: Advantages

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INTRODUCTION

Challenges of desktop virtualization on AWS

Desktop virtualization on **AWS** can be a **difficult** task, especially for organizations with high employee turnover or environments where a large number of desktops are needed. VDI deployments on AWS require many **manual** tasks, making IT administrators' work time-consuming and **complex**. In general, the **lack of automation** is a major handicap when it comes to managing virtual desktop infrastructures with AWS, which require a **multitude of manual configurations** for tasks as common as generating machines to be able to deliver virtual desktops to users.

The most efficient and secure solution: UDS Cloud on AWS

UDS Cloud on AWS brings high levels of **automation** to all the processes involved in **configuring**, commissioning, and **maintaining** a VDI platform with AWS. The tasks of **creating and deleting** machines become simple tasks. By applying the parameters in a single template, the system automatically replicates them in all the virtual desktops, which can be **Windows** or **Linux.** An **unlimited number of desktops** can be deployed with a single click, and are immediately available to users, completely eliminating downtime. Access is simple and intuitive. Through a **personalized web address**, which is instantly generated by the system, users gain access to their virtual desktops. In a **personalized portal** according to the corporate image and the specific needs of each user profile, they find all the software and applications they use to carry out their work with **maximum security and productivity**.

Certified VDI software available on AWS Marketplace

After passing all the official compatibility tests established by Amazon, UDS Cloud on AWS is **certified** as an AWS **compatible** and **100% reliable** VDI software to create virtual desktop deployments on the Amazon cloud platform. In addition, it will soon be available in the catalog of software offered on the AWS Marketplace.

ADVANTAGES OF UDS CLOUD ON AWS

1. Remove the complexity of virtual desktop deployments

One of the most expensive VDI operations to perform on AWS is made **as simple as possible** thanks to UDS Cloud on AWS. The software components will be hosted on **AWS's own Marketplace**, so it will only be necessary to download and configure three virtual appliances following a **few simple steps**. Having a template configured in AWS, it is possible to start **deploying machines automatically**, managing their life cycle: creation, modification, connection, disconnection, and subsequent elimination. At that very moment, access to them is provided, which makes it possible to have a **fully operational VDI platform in record time**.

2. Advanced automation system

All **deployment** and **management** tasks required on an AWS VDI platform are **fully automated** with the addition of UDS Cloud on AWS as a cornerstone of infrastructure. In this way, greater **agility** is achieved in the **management** and delivery of virtual desktops. It is possible to deploy as many virtual desktops as needed, without influencing the number in the optimal performance and **speed** of the system.

3. Calendars and task scheduling

UDS Cloud on AWS incorporates an advanced calendar and scheduling system with which it is possible to automate a considerable number of important tasks. Among them, the virtual desktop **cache** values can be adjusted, dynamically creating, and deleting machines according to the access demands that the platform receives in real time from users. Thus, we can configure the system to have on our platform **only the machines that are needed** at any given time, optimizing consumption, avoiding stressing the platform and obtaining substantial **cost savings**.

In addition, user access to the platform can be **limited by time slots**, which allows resources to be used in a much more efficient way.

4. Unprecedented security

Safety is another aspect that can be significantly improved with UDS Cloud on AWS. It integrates **multi-factor authentication** (MFA) and **Zero Trust mode** natively, and all its components use **high-grade encrypted connections** to secure user access and interactions with services. The system applies automatic checks, incorporates advanced mechanisms that **prevent impersonation**, has network filtering, **user blocking** policies, **split authentication** methods and logs to **monitor** the behavior of users and administrators. In the event of a security breach, the threat can be easily isolated and eliminated… in short, it has all the necessary mechanisms to guarantee the security of the platform and the data it contains, helping to comply with the **highest security standards.**

5. Multiple authentication systems at the same time

UDS Cloud on AWS supports **multiple authentication systems simultaneously**. IT administrators can enable as many as they need, making it easy to choose the method that best suits the organization's requirements for each user group.

As an added value, UDS Cloud on AWS It also allows the **use of federated systems with MFA**, both internal and external, which provide the platform with greater access security.

6. Protection for Office 365 and optimization for Teams

In addition to **Single Sign-On** with Office 365 thanks to native Microsoft authenticator support, UDS Cloud on AWS adds an important extra layer of **access security** to this cloud computing suite, giving full control back to IT administrators. It **encrypts end-to-end connections** and allows setting security policies and least privileges tailored to each organization. All WAN connections are secured through **SSL tunnels** and support the use of corporate certificates.

UDS Cloud on AWS It is perfectly optimized for conducting **audio** and **video conference**s with Teams, guaranteeing the best user experience in online meetings.

7. The most suitable performance for each user

To meet the performance needs of each user profile within an organization, UDS Cloud on AWS supports a **wide range of connection protocols**, being able to enable all that the IT administrator considers appropriate **simultaneously**. In this way, depending on the type of work you do, the tools you use, the device from which you connect or the network from which the connection is made, you can use the protocol that provides the **best performance** to the user.

UDS Cloud on AWS It is compatible with the **NICE DCV high-performance** connection protocol, whose license is included when connecting to the AWS platform, obtaining cost savings as its acquisition is not necessary. Thanks to this option, it is possible to offer the best experience, without extra costs, to those users who require the use of virtual **GPU, VoIP** or have special needs due to the type of work they do, such as the use of **3D graphics** or the **audio and video** playback and editing.

8. Meta Pools: Combine several AWS environments on one platform

Meta Pools are an innovative feature that allows **multiple AWS environments to be combined** as if they were one, fully configurable. This functionality facilitates the efficient **management of workloads**, uniting the resources of several platforms to, for example, **manage overflows** from one platform to another once the maximum contracted capacity of an **AWS plan is reached**. The administrator can establish that once the resources of an AWS environment are exhausted, the system begins to assign virtual desktops hosted in another. If we also add the possibility of **programming the automatic shutdown** of the machines when they are not in use, we add another **advantage in terms of cost savings**. This capability **is completely transparent** to the user, who receives his virtual desktop without waiting times.

9. Freedom and flexibility to create a custom platform

In the same way as the entire family of VDI solutions based on UDS Enterprise, UDS Cloud on AWS. It is an **open system**, based on **Open Source**. This feature makes it **compatible with any technology**, offering the freedom to choose each of the components that make up the platform. IT administrators can create a fully customized infrastructure quickly, **simply, and easily** to **manage centrally**, from a single console accessible through a web browser.

10. Bring your own device (BYOD) risk-free

With UDS Cloud on AWS, users can use **any device**, be it personal or corporate, to access their virtual desktops with total **security**. PCs, laptops, mobile devices, thin clients... any type of terminal with a **web browser** that supports HML5 is compatible with this VDI system. Equipment of **any range** can be used, even with minimal resources, allowing the **reuse** of obsolete computer equipment or the acquisition of **low-cost low-power devices**, favoring **cost savings** not only due to the limited investment in hardware, but also due to **low energetic consumption**.

11.   A transparent and profitable subscription model

The marketing model of UDS Cloud on AWS, based on a **subscription** system, allows you to better **manage budgets** and control the exact spending of IT departments. With this software, we will be able to deploy **as many appliances as we need** in our cloud without incurring an increase in costs. This will allow us, for example, to provide the system with high availability (HA). All components can be deployed in HA to ensure **seamless service** and best performance for users at no extra cost.

This advantage, together with the **price-for-consumption** model offered by cloud platforms, makes it possible to manage the cost of the infrastructure as closely as possible.
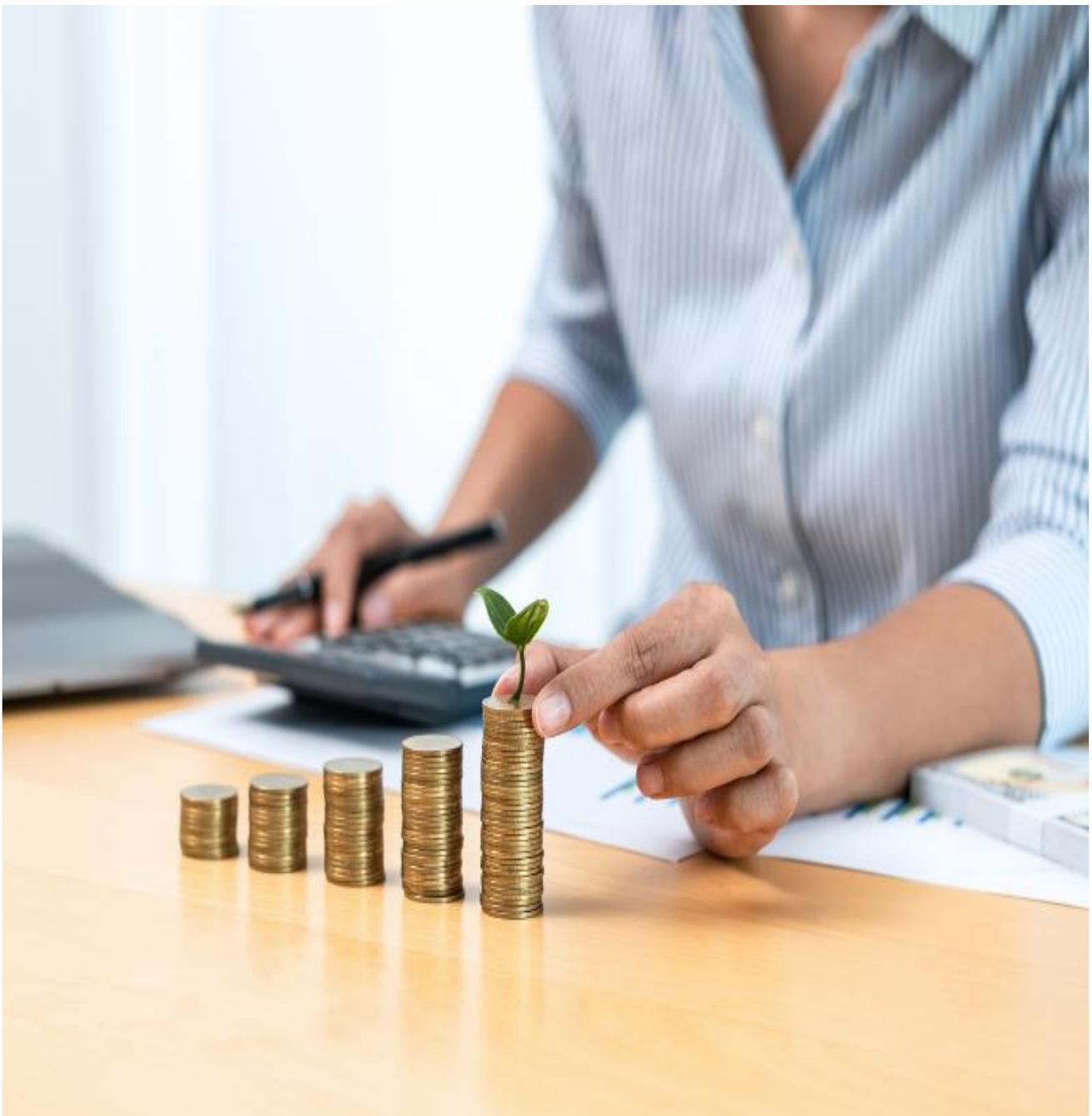
UDS ENTERPRISE, VIRTUAL CABLE'S VDI SOFTWARE

UDS Enterprise: The matrix VDI technology of UDS Cloud on AWS

UDS Enterprise is a new software concept to create a **fully customized workplace virtualization** platform. It provides **24x7 secure access**, from any place and device to all the **applications and software** of an organization or educational center.

It allows to combine in a single console **Windows** and **Linux desktop** and **application virtualization**, as well as remote access to Windows, Linux and macOS devices. Its Open-Source base guarantees **compatibility with any third-party technology**. It can be deployed on premise, in public, private, hybrid or **multicloud**. Even combine multiple environments at the same time to optimize performance and efficiency.

About Virtual Cable

Virtual Cable is a company specializing in the **digital transformation of the workplace**. The company develops, supports and markets UDS Enterprise. Its team of experts has designed **VDI** solutions tailored to **each sector** to provide a unique user experience fully adapted to the needs of each user profile. Virtual Cable professionals have more than **30 years of experience** in IT and software development and more than 15 in virtualization technologies. Everyday **millions of Windows and Linux virtual desktops are deployed with UDS Enterprise worldwide**.