**vm**ware<sup>®</sup>

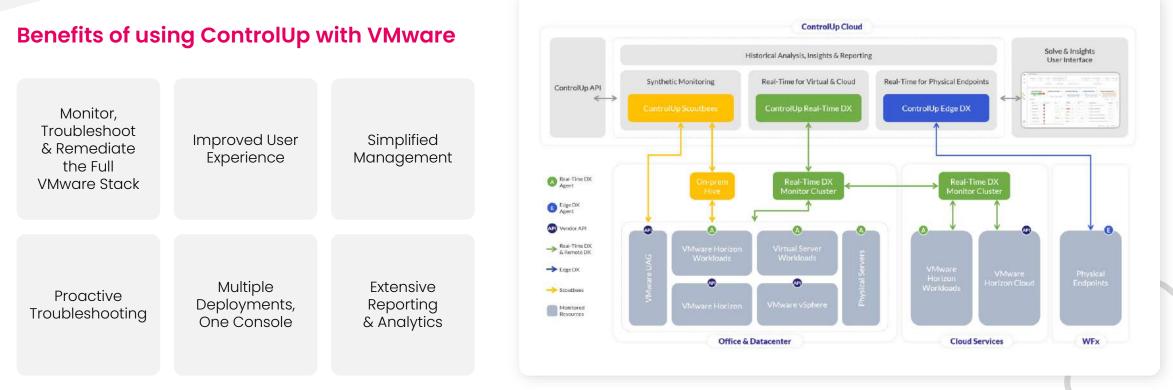
## Analyzing VMware Horizon Logons

Get more from your digital experience monitoring and optimization solution



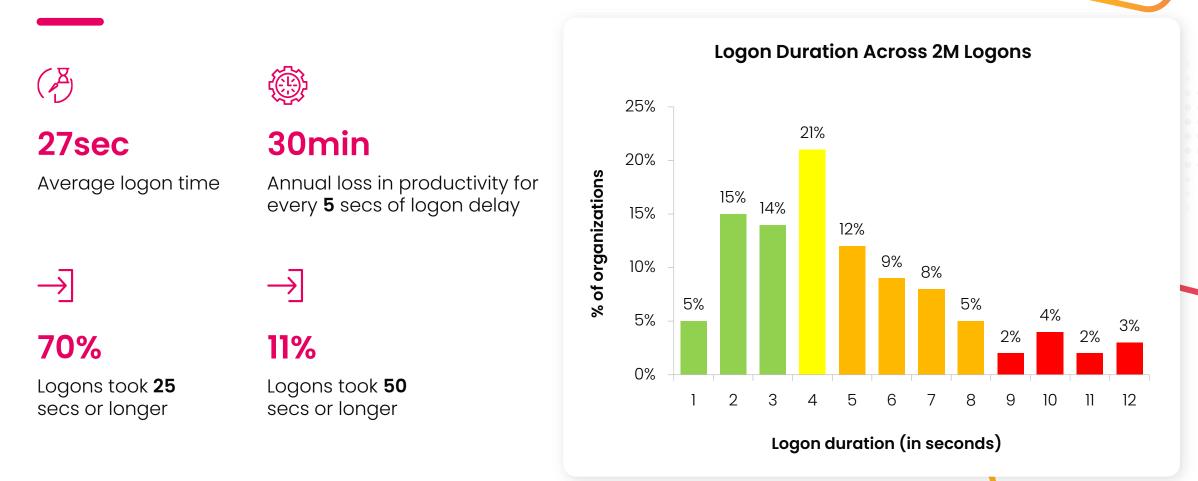
### Advanced VMware Horizon Monitoring, Powered By ControlUp

While VMware Horizon provides a powerful virtualization platform, technologies and capabilities like Microsoft Windows, Active Directory, authentication, DNS, network, group policy, and third-party apps must work seamlessly to provide a great digital employee experience. This eBook will focus on improving the logon duration for EUC and VDI deployments.



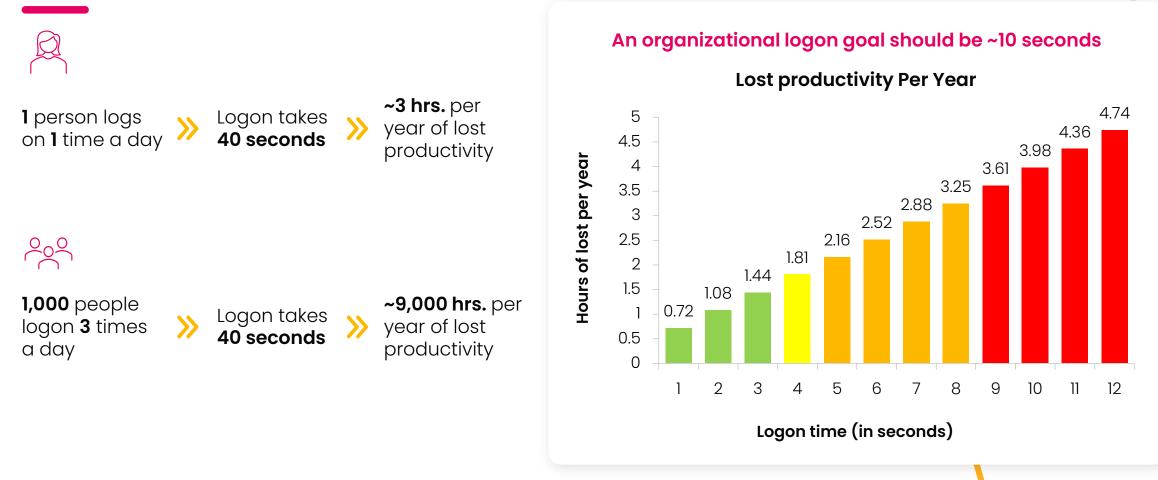
#### **EUC Logon Duration Study**

We examined operational metadata from over two million logons across 200 organizations to get an objective overview of logon durations and their effect on user productivity.



### **Slow Logons Hurt Productivity**

A user's productivity can be hard to measure, but you can measure how long they are forced to wait before they can be productive.



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### What Causes Slow Logons

The end-user computing (EUC) logon process involves an enormous number of variables and is complicated to isolate and troubleshoot.

#### Potential logon problem areas:

#### **Pre-Startup Phase**

- Authentication
- EUC-VDI Broker
- Protocol connection
- Workspace App
- Horizon Client

#### **Logon Phase**

- User profiles
- Group policy
- Logon scripts
- Print & driver mapping
- Client-side extensions
- AppVolumes
- FSLogix

#### **Shell Start**

- Startup applications
- AppX & Active Setup
- VMware DEM
- Scheduled tasks
- Startup scripts

**ControlUp** can detect all of these problems and their severity. The two most common problems are Group Policy and User Profiles.



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#### **How ControlUp Helps Shorten Logon Duration**

#### Observe

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### Gain visibility into the logon experience.

- Proactive testing of resources
- Real-time capture of the logon process
- Alerting on slow logons

 The User Experience column highlights users with long logons

#### Analyze

## Get a detailed inspection of the logon process.

- Identify slow logon phases
- Third-party technology impact
- Application & resource availability analysis
- Historical logon trend analysis
- Community metrics
  comparison

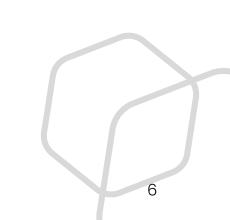
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#### Optimize

### Improve everyone's productivity.

- Over 300 script actions
- Recommendations for remediation
- Forecasting to plan for growth



### **Detecting Logon Times**

ControlUp's Analyze Logon Duration script action pinpoints logon problems in real time. With ControlUp, you get an easy-to-understand overview of your user's logon duration and can drill down to discover why logons are higher than average.



Logon Duration	The ControlUp User-Interface (UI) Provides Easy to Understand and Sortable Logon Metrics							
Profile Load Time	User <b>T</b>	StressLevel T	Logon Duration V Y	Profile Load Time	Group Policy Load Time	DesktopLoad Time	Logon Duration - Other	
Group Policy Load Time	ACME\julie CONTROLUP\trententt	Medium 🛪	222 sec	145 sec	2 sec 1 sec	11 sec	64 sec	
Desktop Load Time	CONTROLUP\justint ACME\jopart	Medium X	48 sec 45 sec	21 sec 30 sec	1 sec	5 sec	21 sec	
	ACME\ttyevmw	Medium 🗙	41 sec	2 sec	28 sec	7 sec	4 sec	
gon Duration – Other	ACME\tabert	Medium X	40 sec	24 sec 3 sec	3 sec	5 sec	13 sec 25 sec	

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### **Comparing Logon Times**

ControlUp provides a Logon Duration report that compares your organization's logon duration to the global community.

#### The ControlUp logon duration report can answer questions like:

How fast is the logon process in my network perform compared to the global average?



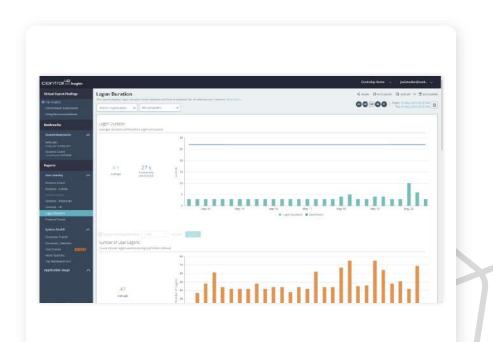
What is the difference between the logon duration in peak and off-peak hours?

Which phase of the logon process accounts for the largest D→D portion of the total logon duration?

We are very excited about ControlUp. We use it in our day-to-day management and as a triage tool for quick and easy analysis. The ability to manage multiple registry entries, file systems and services is invaluable. This is NOT just a monitoring tool, it is really an overall server management tool. I would definitely recommend this to colleagues.

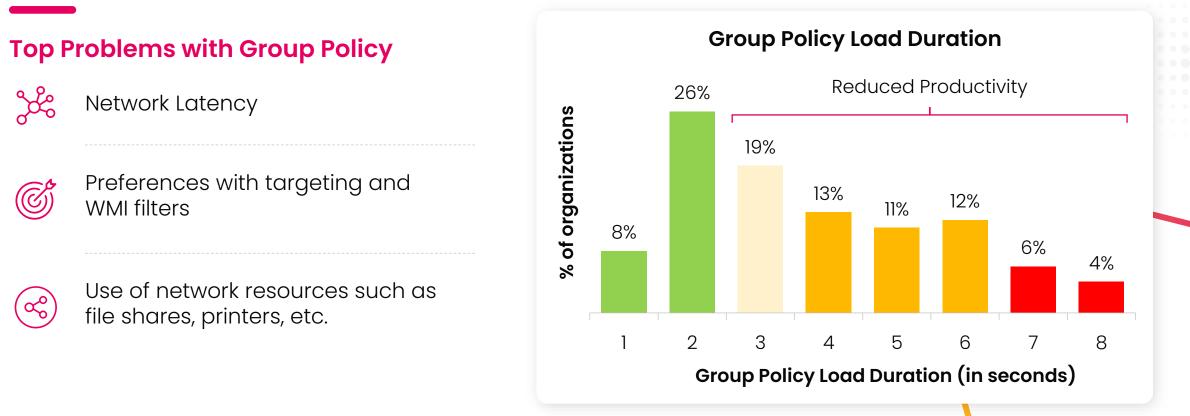
Matt Goulding Senior Analyst, CareTech Solutions (Healthcare, Technology)





### **Group Policy Logon Time Problems**

ControlUp's operational metadata report shows an average Group Policy logon process takes 7.5 seconds. The distribution suggests that if your organization's Group Policy processing time is above 5.8 seconds (the median), then you are slower than 50% of organizations and you have an opportunity to make a significant, impactful change.

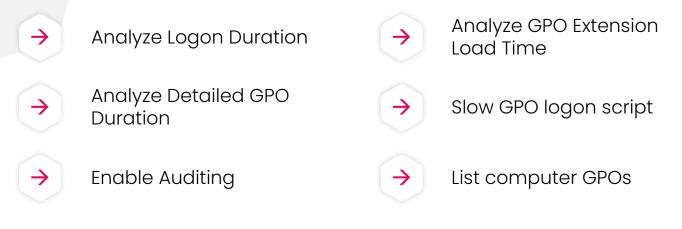


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### **Group Policy Logon Times Solutions**

ControlUp lets you easily sort data to find details on group policy load times. Then, our Virtua : Expert™ will suggest a script action to help optimize your logon durations.

#### **Recommended Script Actions for GPO issues**

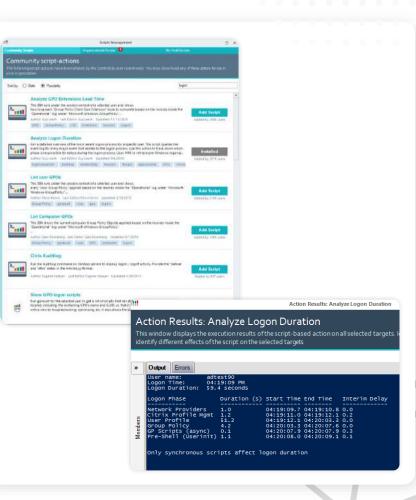


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What we really like is the right click features for administration, to be able to do remote GPO management, look at the registry. The biggest feature we really love is the compare tool for the registry, the services and files system, everything. We use the tool on a daily basis.

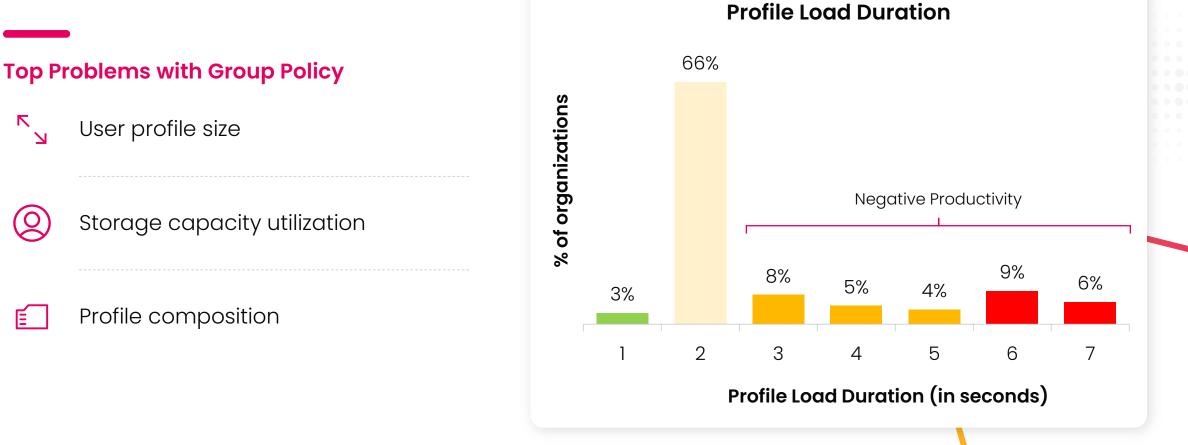
#### Sean Cottrell | Secura Insurance





#### **User Profile Load Time Problems**

Our operational metadata report also shows an average profile load time of two seconds. While that is not very long, the chart below shows that 15% of users in our sample wait 10 seconds or more on average to load the user profile.



### Solutions for User Profile Load Times

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Profile management is an important aspect of every application or desktop virtualization implementation. Whether you have a user profile management solution or if you manage your users' profiles locally, it is important to monitor and moderate the profile size and composition (total number of files)

#### **Recommended Script Actions**



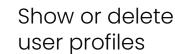


Clean windows system drives



List redirected user profiles

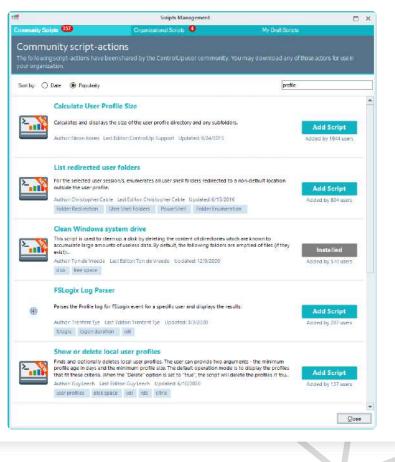




We use ControlUp to take care of the user profile as well as performance issues, getting latency information and server utilization for memory and CPU. It's a great tool that makes us extremely proactive about the issues that we can see in our infrastructure.

Daniel Ruiz | Cloud Technologies Manager Geller and Company

GELLER & COMPANY



### **Analyzing VMware Horizon Logons**

ControlUp also provides deep analyses for logon durations from technologies outside of the windows environment.



VMware Dynamic Environment Manager

VMware AppVolumes



VMware Horizon Client

Broker Display Pro Client Name	: HZNConnect.bott tocol : BLAST : Z9PE-D16	heory.local			
	: 4/17/2020 10:59:41 : 4/17/2020 11:01:46 : 124.7 seconds				
Source	Phase	Duration (s)	Start Time	End Time	Gap (s)
Windows	Windows Logon Time	0.0	10:59:40.5	10:59:40.5	
App Volumes			10:59:41.6	10:59:56.7	1.1
SLogix	LoadProfile	60.2	10:59:46.1	11:00:46.4	
Vindows	User Profile	0.4	11:00:46.4	11:00:46.8	0.0
vindows	Group Policy	10.4	11:00:46.8	11:00:57.3	0.0
App Volumes	ShellStart	0.0	11:00:57.5	11:00:57.5	0.3
SLogix	ShellStart	3.7	11:00:57.6	11:01:01.3	0.0
vindows	Pre-Shell (Userinit)	0.0	11:01:01.3	11:01:01.3	0.0
vindows	shell	45.0	11:01:01.3	11:01:46.3	0.0
shell	AppX File Associations		11:01:01.9	11:01:17.8	
shell	AppX - Load Packages	39.0	11:01:02.1	11:01:41.1	
Shell	ActiveSetup Windows Duration	7.1 124.7	11:01:03.5	11:01:10.7	

# 



### Conclusion

ControlUp solves the topmost reported problems when supporting virtual applications and desktops. It also helps remediate troublesome work-from-anywhere issues so that your users can stay happy and productive.

Here's a recap of the Top 5 virtual application and desktop issues that we covered in this eBook.

- Slow logons in EUC environments
- Application performance issues
- Work from home issues
- Unified communications issues
- Slow virtual sessions

See it for yourself by either scheduling a demo or downloading the free trial to see how ControlUp solves these issues in your environment.

Schedule a Demo

**Download Free Trial**