



Resolve your Complex VDI Disruptions with Uila uObserve™

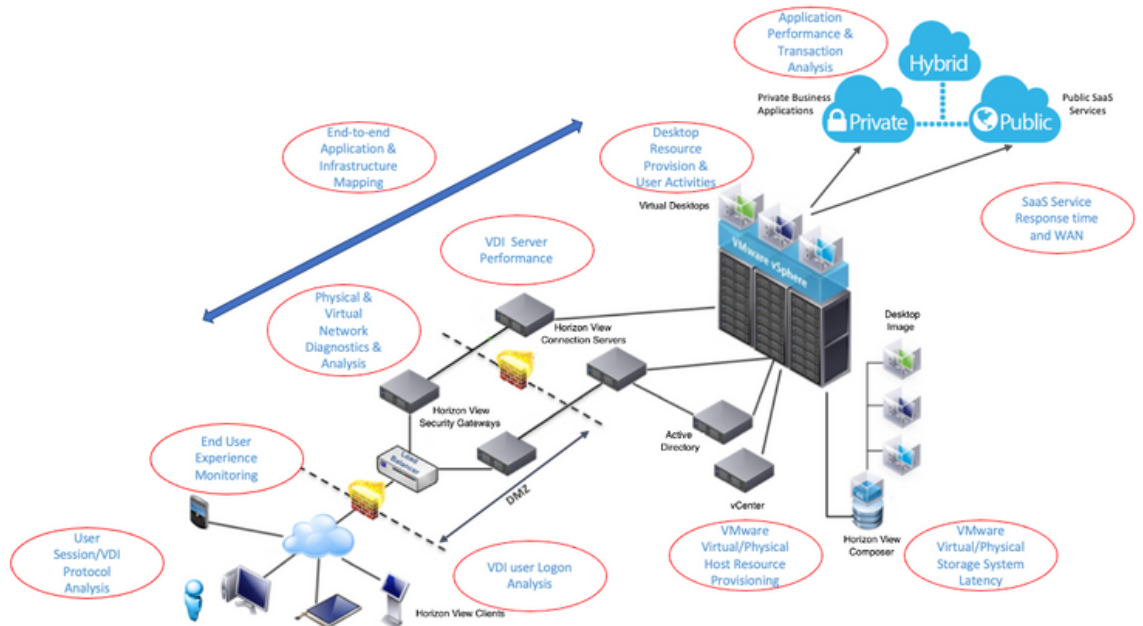
Uila uObserve provides Performance and Cyber Threat Analytics, in a single pane of glass to help resolve complex VDI disruptions for Enterprise Desktop teams. With uObserve, IT teams can visualize application & infrastructure dependencies for the entire VDI deployment from end-to-end, rightsize infrastructure resources, and troubleshoot disruptions for any onsite or remote VDI user due to application/network/infrastructure/end-user challenges. And most importantly, this is done without any agents. uObserve also allows security teams to combat advanced cyber threats against the VDI infrastructure, by providing comprehensive application-centric insights into cyber threats & Data Exfiltration activities. Organizations use Uila to align themselves with their IT teams & cut MTTR from days to minutes, and keep the end-user experience at peak performance & secure at all times across cloud boundaries.

What are the questions answered by Uila for VDI Monitoring & Troubleshooting

- How many current active VDI sessions?
- What VDI protocols are in use?
- Why is my login very slow?
- What applications are being used by the VDI users?
- Why is my Application access so slow?
- What components make up my entire VDI infrastructure?
- Are the performance problems due to the user's home connection?
- Why am I seeing so many application time-outs?
- Is my VDI infrastructure impacted due to network issues?
- Is my VDI infrastructure's CPU and Memory resources optimized for the maximized performance?
- Is my VDI deployment secure?
- Which users are using the GPU resources?
- Is there enough memory for GPU?



360 Degree Insights into VDI/EUC with Uila uObserve



Scalable Architecture for Faster & Efficient VDI Monitoring Rollout



Agentless architecture to monitor your VDI deployment across the full-stack in the Data Center. This allows you to monitor your application workloads without any special approvals from application owners or complex, tedious & expensive rollouts.

Built-in Classification for 3,700 applications



Monitor and resolve downtime and slowdowns for more than 3,700 applications used by your VDI users, including Web, Databases, ERP, Healthcare (HL7, Dicom), Financial (FIX), Industrial (Scada), SaaS (Office 365, Zoom, Webex, Microsoft Teams, Google Hangouts, Skype), IoT, Building Automation, and many more.

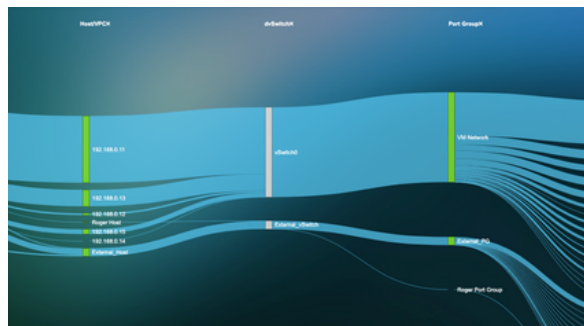


Full-Stack Root-Cause Analysis for any VDI Complaint



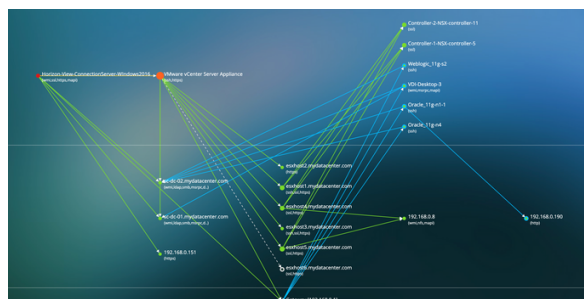
Automatically triage service VDI outages and poor performance issues in a single click, using an unified view across the Application, Virtual/Physical Network and the Infrastructure (Compute & Storage).

Troubleshoot Network Issues impacting VDI



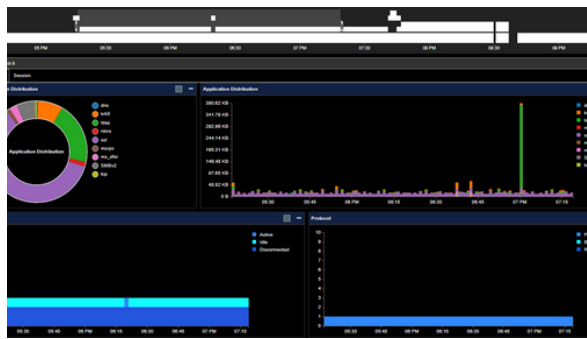
Visualize virtual as well as physical network equipment issues impacting VDI performance. Deep insights into east-west traffic, as well as the metrics from physical top of the rack switches, routers helps isolate bottlenecks. With Uila's Application-centric approach to alerting, network teams are only alerted on issues that are impacting the actual application performance.

Automated End-to-end Application Dependency Mapping for VDI



Real-time, Automated end-to-end (user clients to virtual desktops to backend application and connection servers) mapping of all assets and all interdependencies for VMware Horizon and Citrix deployments. Users can easily pinpoint bottlenecks and also visualize dependency changes Vs baseline that is impacting performance.

VMware Horizon User Session Analysis

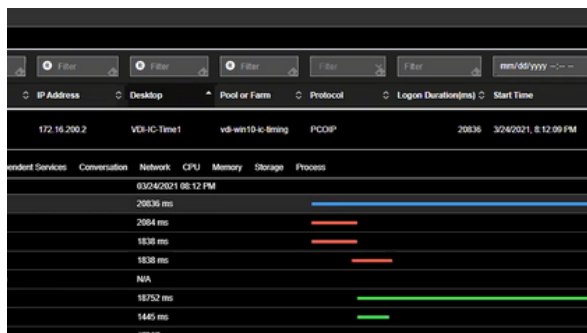


Visualize detailed insights into user sessions. This includes:

- Application Discovery and Usage: Built-in classification of Application traffic from VDI desktop as a client connects to application servers (e.g. Zoom, ERP, Databases, EHR, etc.)
- VDI Desktop Session distribution (Active, Idle, Disconnected states)
- Protocol distribution (PCOIP, Blast Extreme & RDS)
- Blast and PCOIP RX and TX Packet Loss, Round-Trip Time, User session latency, bandwidth, etc.
- Windows Desktop Process information



User Session Logon Analysis



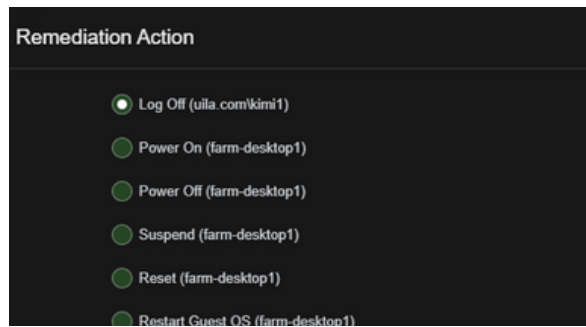
Get deep insights into user logon issues. Get details into Logon duration, including individual stages like broker duration, agent duration, app launch duration, etc.

Measure End-User Experience & Resolve problems before impact

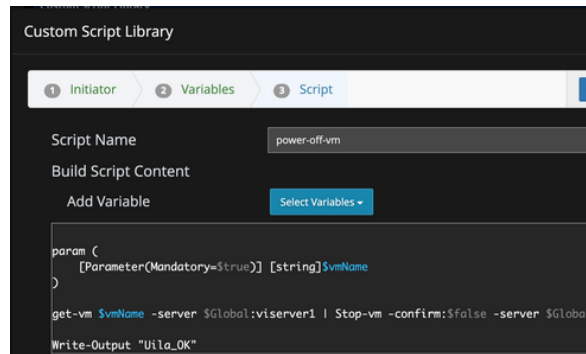


End-user response time tracking proactively alerts IT to service degradation from the user's perspective before user and revenue impact. Response time analysis breaks down delays by the server, network, storage, application and clients.

Manual & Automated Remediations, Including Custom Scripting



Intelligent Alert-based triggers and Manual triggers to provide complete control in proactively preventing issues as well as streamlining problem resolution. Use built-in actions like Power off/Suspend/Reset VMs, logging off VDI users, Kill a process running on a VDI desktop, etc.



uObserve provides extensive agility and flexibility to IT teams to automate remediation actions, as well as configurations using its customizable scripting capability (Power-Shell based scripts) to be executed on VMware vCenter® as well as VMware Horizon® Connection Server for resolving complex disruptions across the entire stack

Monitor Cyber Threats for VDI



Secure your Application and VDI Infrastructure Deployment from the inside, with East-west traffic visibility, Application Anomaly identification, alerts on thousands of cyber threats, and Data Exfiltration activities.

Resource Right-sizing Guidance

Resource Name	CPU	Mem	Storage	Network	Usage	Alert	Recommendation
Prod-NFS	3432	2	0.2	0.4	0.3	1.0x	2048
APP-LB-101	1716	1	0.3	0.5	0.3	256	6.9
Weblogic_11g-e1002	1716	1	2	5.7	4.6	512	5.8
Nike-mail-01	6864	4	0	0.1	0	4096	1
APP-LB-1	1716	1	0.3	0.4	0.3	1024	1.3
WebServer04	3432	2	4.6	43.4	32.5	12288	1
FS-102	3432	2	0.2	0.4	0.3	1024	2.1
WebServer-1	1716	1	0.4	0.6	0.5	2048	1.1
WebServer01	1716	1	0.2	0.3	0.3	2048	1.1
WebServer05	1716	1	0.3	0.4	0.3	2048	1.1
DB-LB-1001	1716	1	7.2	91.5	46.8	384	10.8
APP-LB-102	1716	1	0.2	0.4	0.3	256	6.3
DB-LB-101	1716	1	0.2	0.4	0.3	256	6.4
DBServer-1	1716	1	4.9	45.5	34	2048	1.2
UULA-WORSHARK-VISORNew	1716	1	0.2	0.4	0.3	2048	1.1
web-01	1716	1	0.6	8.4	2	512	3.3
MySQL-DB-1002	1716	1	78.2	83.7	82.9	512	6.5
Nike-web-01	3432	2	0.1	0.1	0.1	512	2.3
Citibank-web-01	3432	2	0.1	0.1	0.1	1024	1.3
APP_Load_Balancer	6864	4	0.1	0.1	0.1	2048	1.1
Controller-1-NEX-controller-5	6864	4	4.8	5.2	5	4096	15.4
PHL-IL-1017	1716	1	0.3	0.3	0.3	512	4.6

Visualize under-provisioned hosts or instances leading to application performance issues, as well as poor CAPEX investment choices with over-provisioned infrastructure assets.

NVIDIA GPU Monitoring & Analysis



Intelligent NVIDIA GPU metrics using the NVIDIA System Management Interface (NVSMI) to allow desktops teams to provide the maximized performance for GPU-enabled virtual desktops.

Log Analysis for VDI

The screenshot shows a log analysis interface with a table of events. The table has columns for Type, Severity, Group, Source, Event ID, and Message. The events are related to Horizon VDI connections and include details like 'Publish VC Cert Task', 'SimpleDaemonThread', and 'MessageFrameWorkDispatch'.

Type	Severity	Group	Source	Event ID	Message
Horizon VDI	DEBUG	Publish VC Cert Task: 1621728007D	Horizon VDI		Connecting to instance at 10.3.249.138
Horizon VDI	DEBUG	SimpleDaemonThread	Horizon VDI		ipjview-ws/r/10.3.246.82
Horizon VDI	DEBUG	AJP-18	Horizon VDI		ipjview-ws/r/10.3.249.138
Horizon VDI	DEBUG	SimpleDaemonThread	Horizon VDI		ipjview-ws/r/10.3.249.138
Horizon VDI	DEBUG	AJP-24	Horizon VDI		ipjview-ws/r/10.3.249.138
Horizon VDI	DEBUG	MessageFrameWorkDispatch	Horizon VDI		KeyVault service OK
Horizon VDI	DEBUG	MessageFrameWorkDispatch	Horizon VDI		KeyVault service OK
Horizon VDI	DEBUG	MessageFrameWorkDispatch	Horizon VDI		KeyVault service OK
Horizon VDI	DEBUG	MessageFrameWorkDispatch	Horizon VDI		KeyVault service OK

Instant and automated access to out-of-box correlated and contextualized logs from multiple systems including VMware Horizon, Windows (Event and Active Directory), etc. and applications like Microsoft SQL server, Office 365, etc. You can also query and search logs by severity, group, service type, event ID, message and source.

ROI Savings with Uila



Less Time spent in Troubleshooting



ROI in less than 3 months



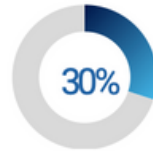
Reduction in Service Disruption



Time Reduced for Application Mapping



Net Promoter Score



Reduction in Infrastructure CAPEX

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<https://www.uila.com/uila-free-trial>