



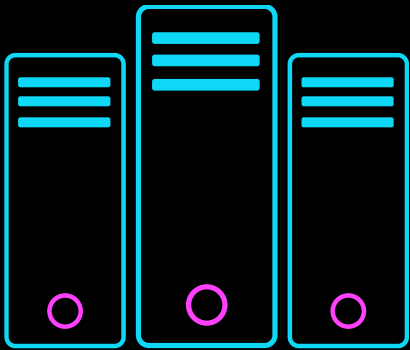
복잡성을 최소화하는 엔터프라이즈 데이터 보호 방안

베리타스코리아 민준흠 이사

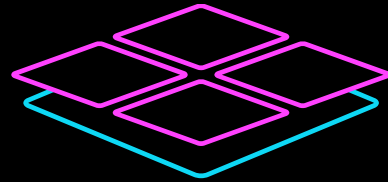
#VtasVision

VERITAS
VISION Solution
Day

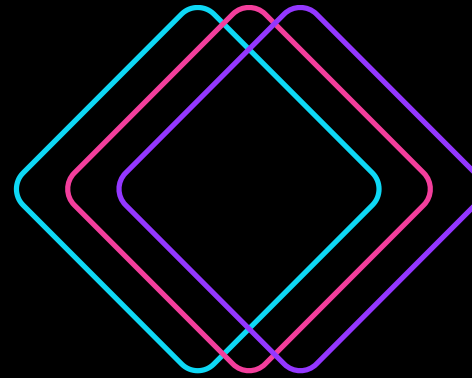
Data Center's Journey



On-prem infrastructure



Virtualization

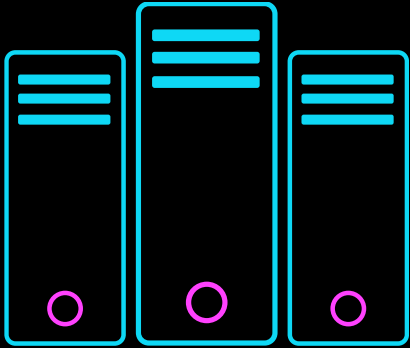


New Workloads

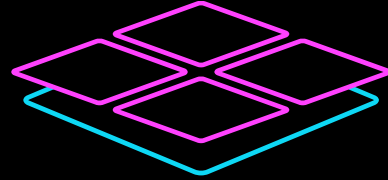


Cloud

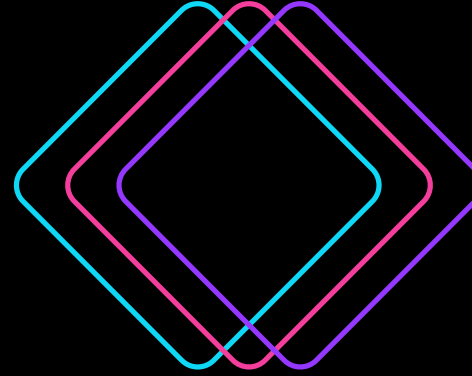
Data Protection Challenges



On-prem infrastructure



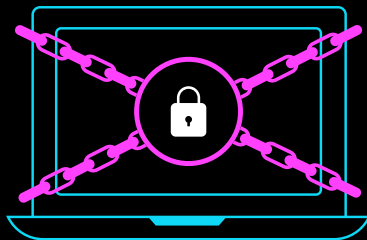
Virtualization



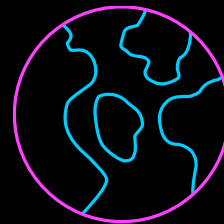
New Workloads



Cloud



Ransomware



Data regulations



Complexity

복잡성이 증대되는 IT... *More* 의 시대

More Tools

More Regulations

More Clouds

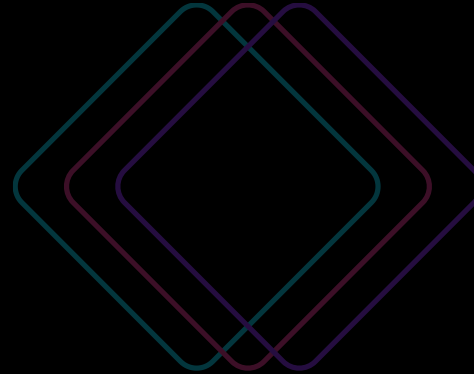
More Workloads



On-prem infrastructure



Virtualization



New Workloads



Cloud

어떻게 해결할 수 있을까?



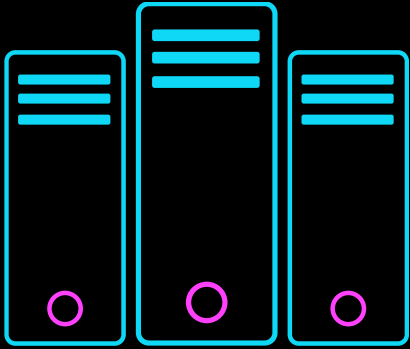
Ransomware



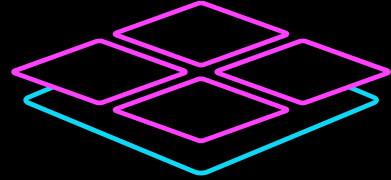
Data regulations



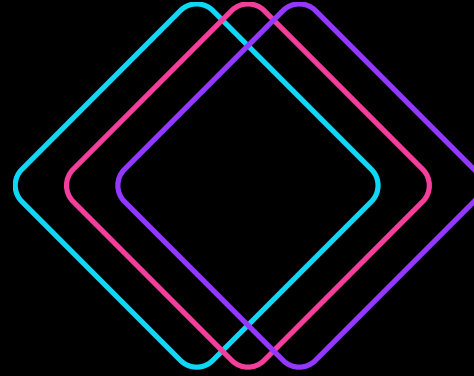
Complexity



On-prem infrastructure



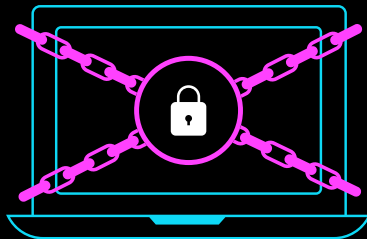
Virtualization



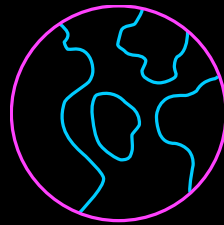
New Workloads



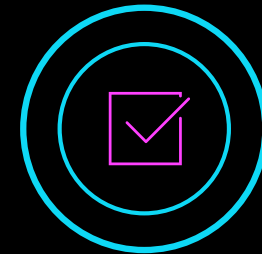
Cloud



Ransomware



Data regulations



Complexity



VERITAS

ENTERPRISE DATA SERVICES

P L A T F O R M

It Begins with Veritas Protection

Always Protected. Confident Recoverability.

14X

Gartner MQ Leader

500+

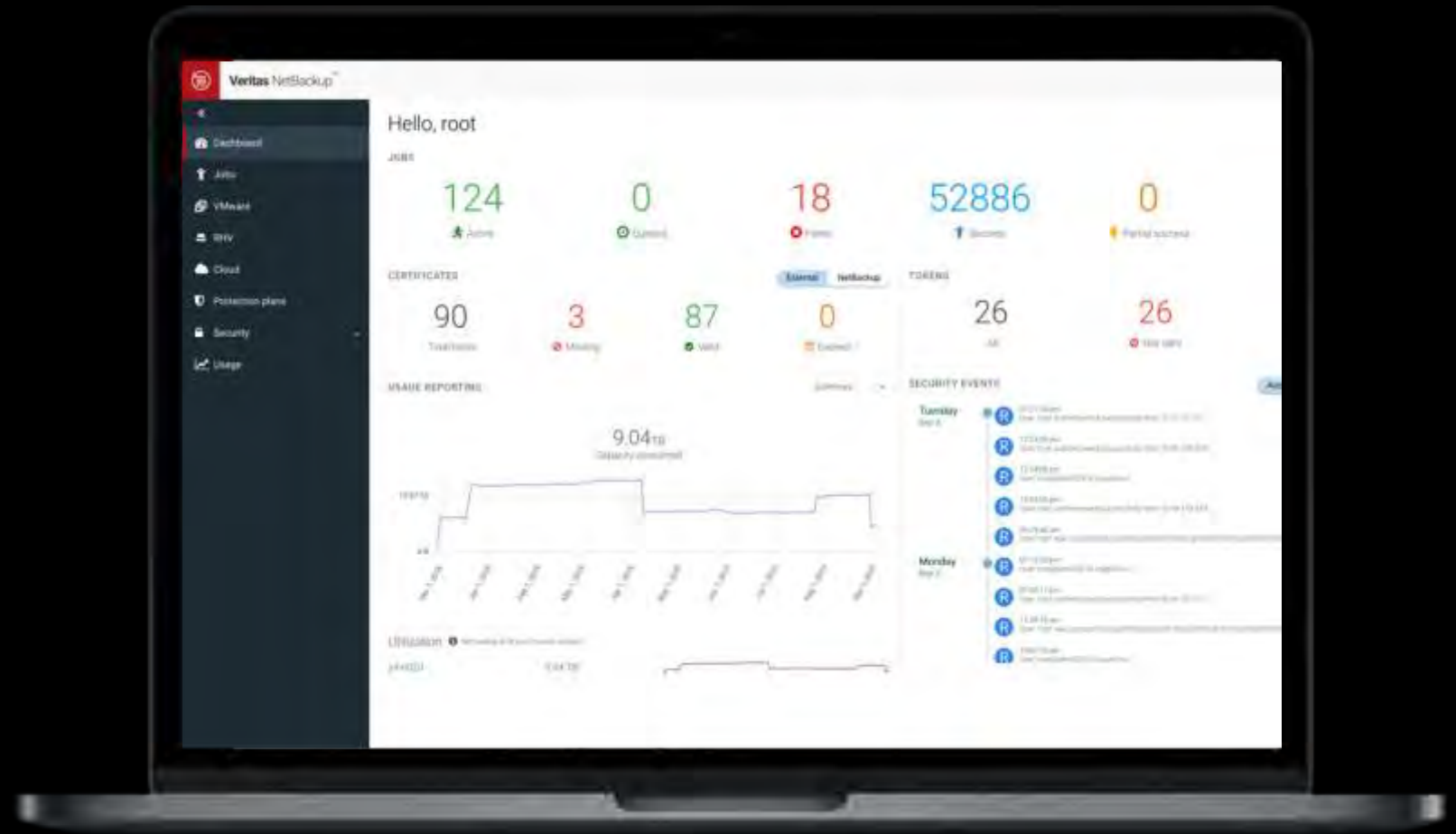
Data Sources

150+

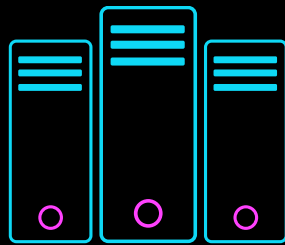
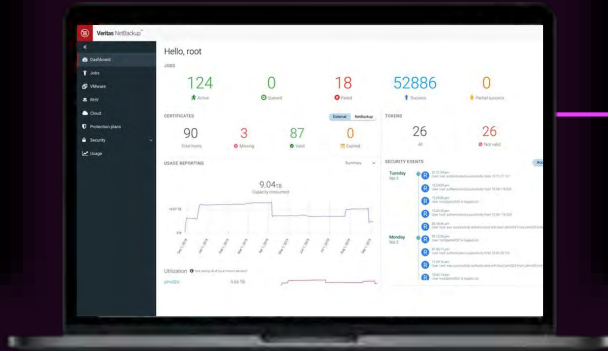
Storage Targets

60+

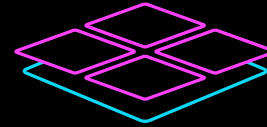
Cloud Providers



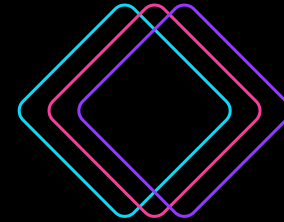
인프라스트럭처의 모든 계층과의 통합



On-prem infrastructure



Virtualization

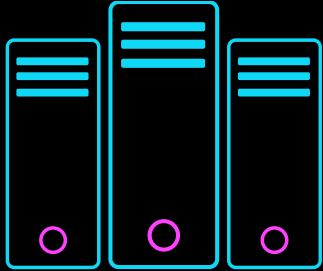


New Workloads



Cloud

Veritas for On-Prem Data Protection



ORACLE[®] NetApp[®]

SAP IBM NUTANIX[®]

HITACHI AIX. redhat.

Hewlett Packard Enterprise DELL EMC PURE STORAGE[®]



60+ clouds

Veritas appliances

Third-party appliances

Nutanix Buckets

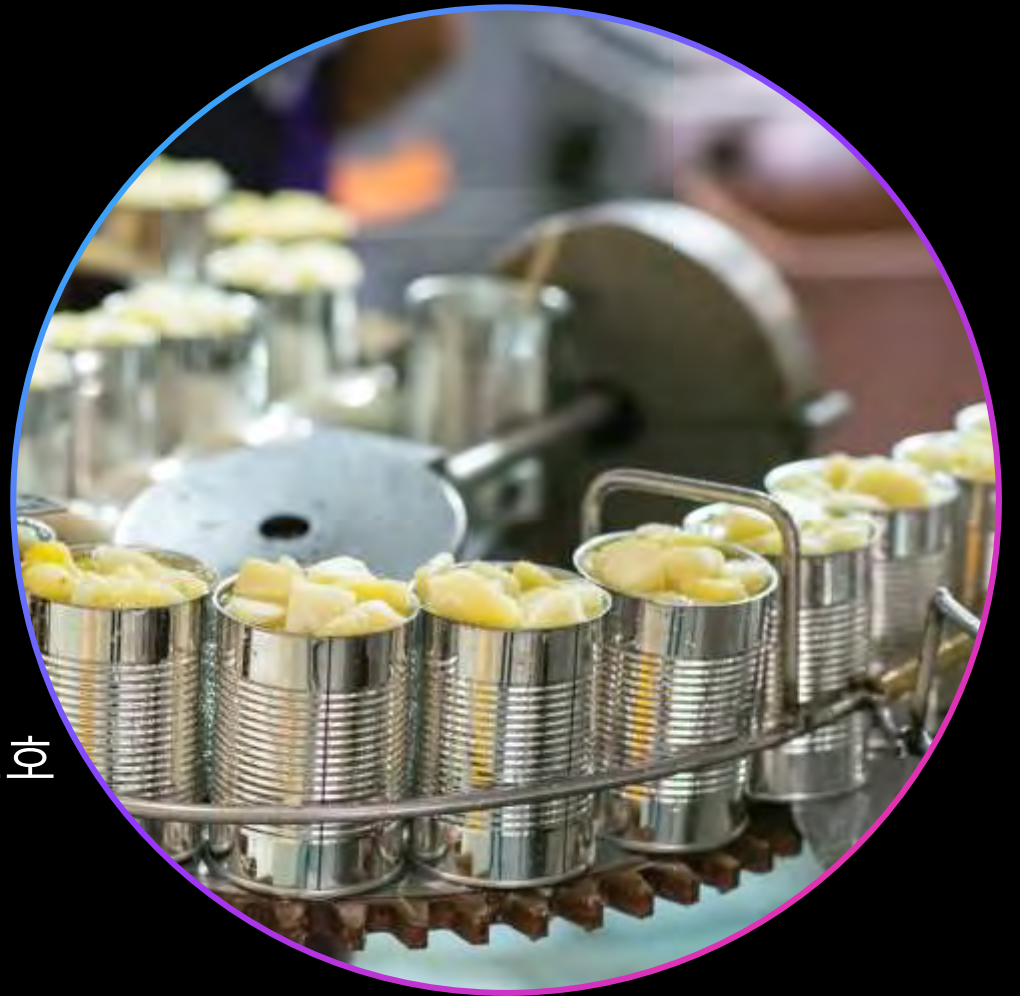
One of the world's largest consumer food manufacturers

GOAL:

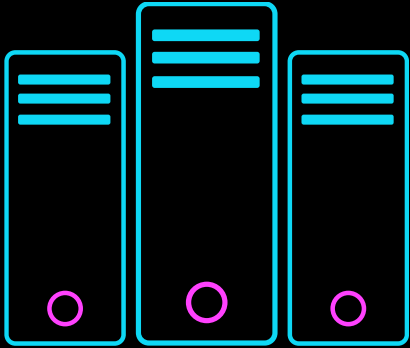
- 통합 데이터 보호 방안 확보

RESULTS:

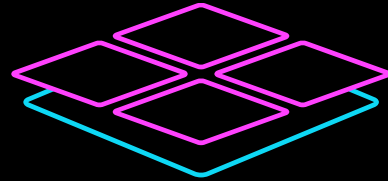
- Appliance 도입을 통한 복잡도 감소
- 단일 솔루션을 통한 Linux, Unix, DB, File share 통합 보호
- 5년간 약 \$875,000 비용 절감
- 성능, 신뢰성 향상 및 사용 편의성 증대



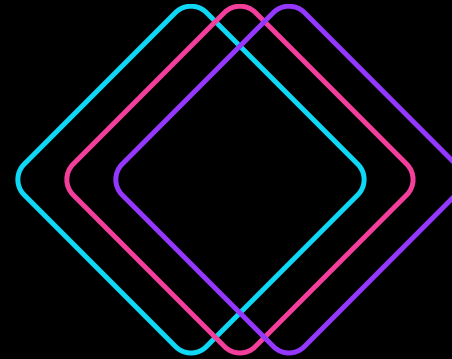
Data Protection Challenges



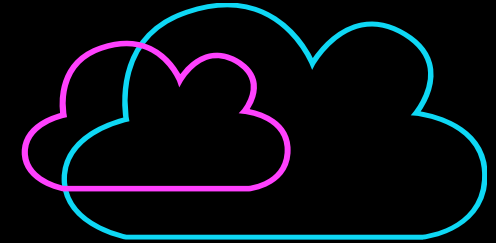
On-prem infrastructure



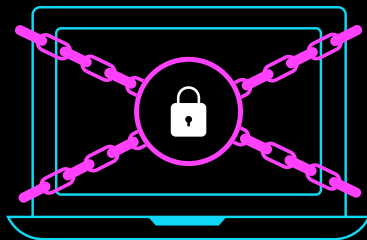
Virtualization



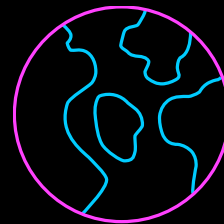
New Workloads



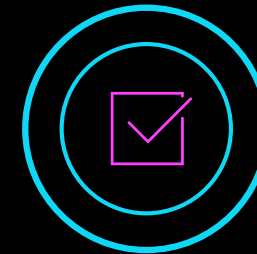
Cloud



Ransomware



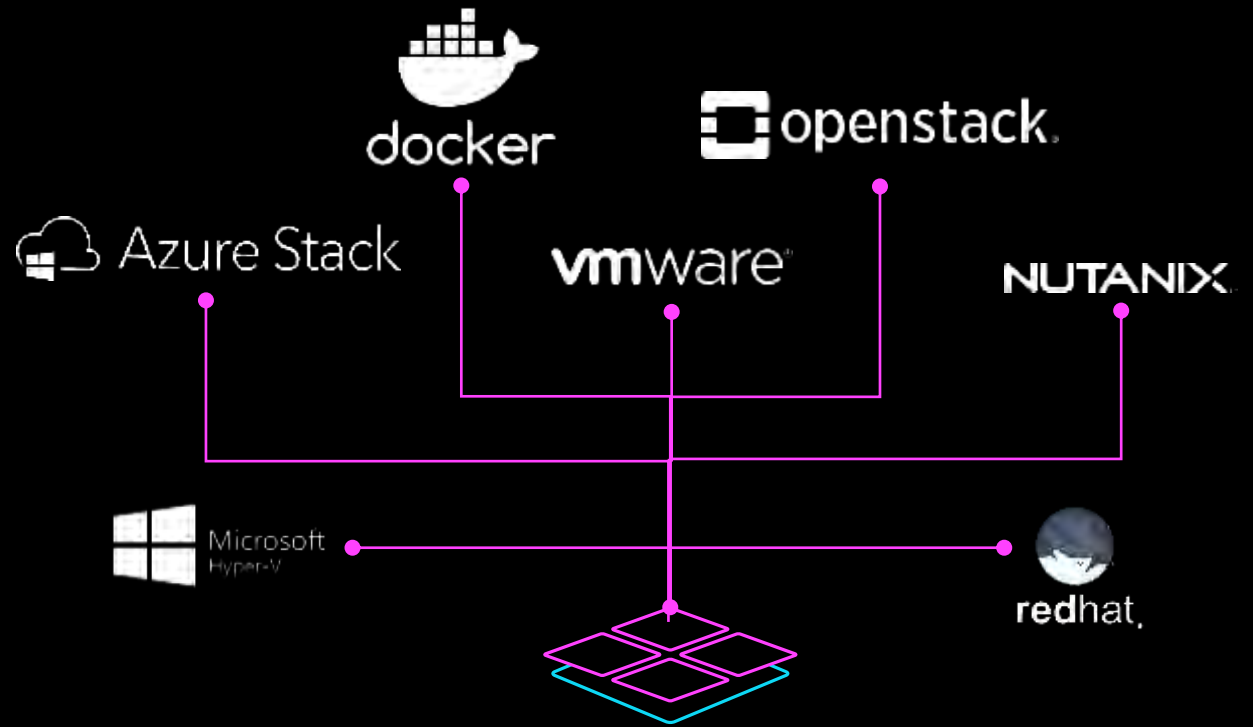
Data regulations



Complexity

업그레이드된 가상화 보호 방안

- 다양한 Hypervisor 지원
- First Docker-certified solution
- Agentless everywhere



VMware 와의 강력한 Integration

- 12 년간의 강력한 파트너십
- 자동화 & Agentless & Instant Access
- 130M VMs & 3,000PB data
- Only solution for 100s to 100,000s VMs
- Modern UX 를 통한 운영 간소화



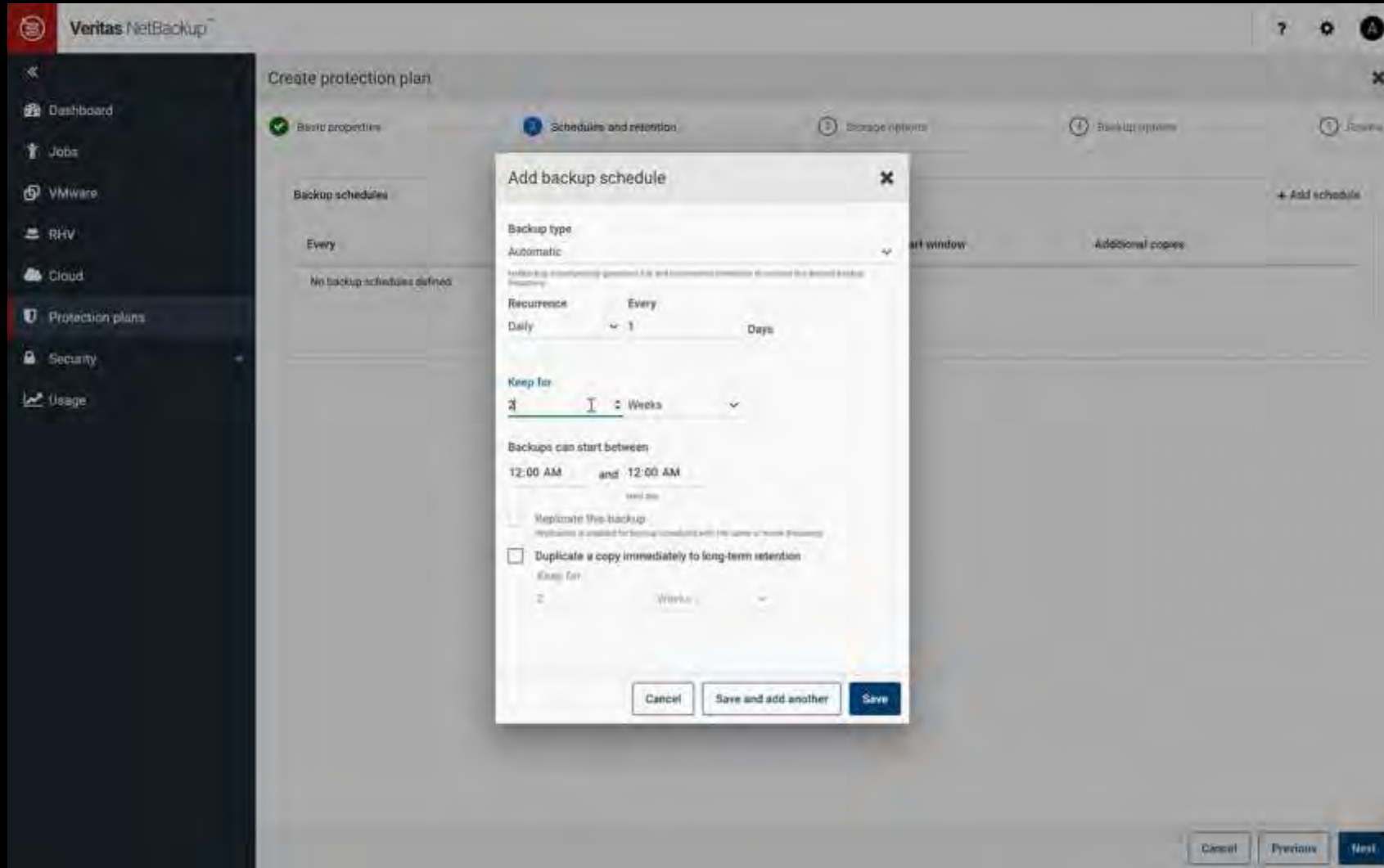
손쉬운 VMware 보호

The screenshot shows the 'Create protection plan' wizard in Veritas NetBackup. The interface is in Korean. The left sidebar contains navigation options: Dashboard, Jobs, VMware, RHV, Cloud, Protection plans (selected), Security, and Usage. The main area is titled 'Create protection plan' and has five steps: 1. Basic properties, 2. Schedules and retention, 3. Storage options, 4. Backup options, and 5. Review. Step 1 is active. The 'Name' field is highlighted with a red box and contains 'VM Protection 2'. The 'Description' field also contains 'VM Protection 2'. Below these fields, there is a 'Supported workload' dropdown menu set to 'VMware', an unchecked 'Allow custom protection' checkbox, and a 'Policy name prefix' dropdown menu. At the bottom right, there are 'Cancel', 'Previous', and 'Next' buttons.

Step 1:

새로운 데이터 보호
계획 생성

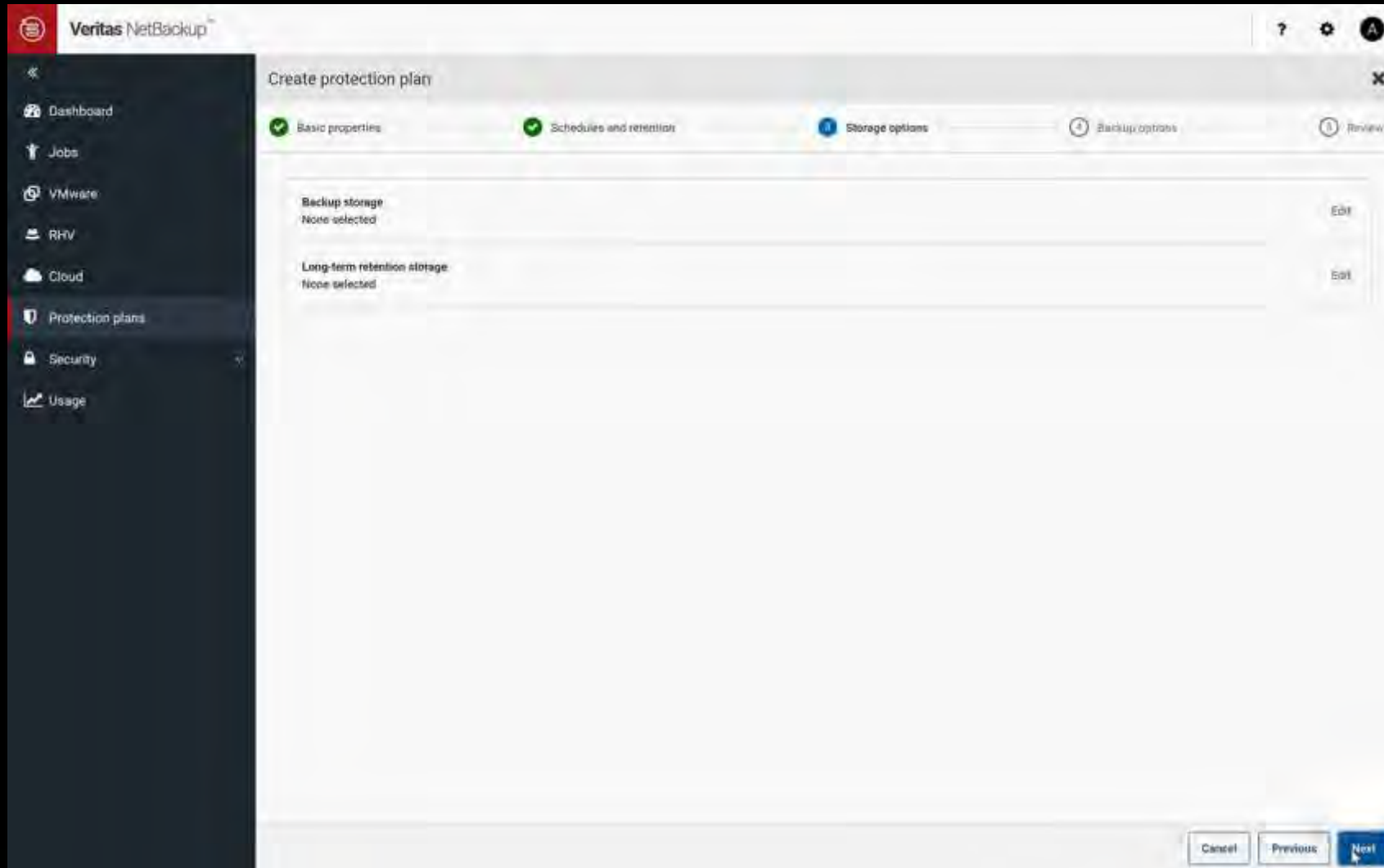
손쉬운 VMware 보호



Step 2:

백업 스케줄,
보존 기간 설정

손쉬운 VMware 보호



Step 3:

백업 저장 공간 선택
(백업, 장기 보관)

손쉬운 VMware 보호

The screenshot shows the 'Create protection plan' wizard in Veritas NetBackup. The interface is divided into a left sidebar and a main content area. The sidebar contains navigation links: Dashboard, Jobs, VMware, RHV, Cloud, Protection plans (highlighted), Security, and Usage. The main content area is titled 'Create protection plan' and shows a progress bar with four steps: Basic properties, Schedules and retention, Storage options, Backup options (current step), and Review. Below the progress bar, the 'Backup options' section is active. It includes a dropdown menu for 'Server or host to use for backups' set to 'Automatic'. A section titled 'If a snapshot exists, perform the following action' contains four radio button options: 'Remove NetBackup snapshots and continue the backup' (selected), 'Continue the backup', 'Stop the backup if any snapshots exist', and 'Stop the backup if NetBackup snapshots exist'. There is also an unchecked checkbox for 'Exclude selected virtual disks from backups'. At the bottom, there is an 'Advanced' section and three buttons: 'Cancel', 'Previous', and 'Next'.

Step 4:

백업 옵션 선택

손쉬운 VMware 보호

Veritas NetBackup

Protection plan created successfully!

<input type="checkbox"/>	Protection plan	Description	Type	Customizable	In use
<input type="checkbox"/>	BYO_Media		VMware	No	<input checked="" type="checkbox"/>
<input type="checkbox"/>	CC_AWS		VMware	No	<input checked="" type="checkbox"/>
<input type="checkbox"/>	CP_Protection		Cloud	No	<input type="checkbox"/>
<input type="checkbox"/>	VM Protection 2	VM Protection 2	VMware	No	<input type="checkbox"/>
<input type="checkbox"/>	VM Protection Policy	VM Protection Policy	VMware	No	<input checked="" type="checkbox"/>

Showing 1 of 5. Rows per page: 100

Global Automotive Manufacturer

GOAL:

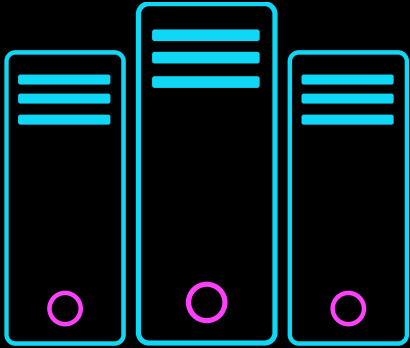
- 대용량 SAP 시스템에 대한 안전한 보호 방안 확보
 - 5개 나라 / 8만명 사용자, 35TB 이상의 용량

RESULTS:

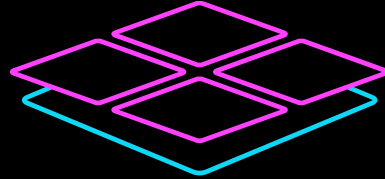
- SAP 을 위한 가상&물리, 파일&DB 환경에 대한 단일 데이터 보호 플랫폼 적용
- 백업 윈도우 절감 (2.5 days to 10 hours)
- Zero RPO DR 을 통한 \$32M 다운타임 비용 위험 경감



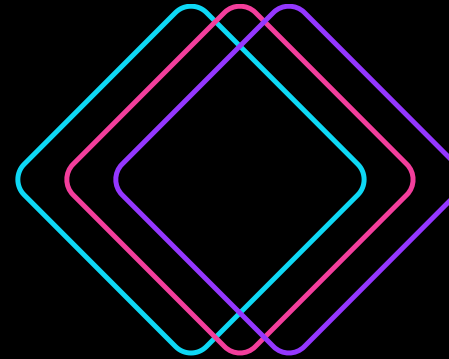
Data Protection Challenges



✓ On-prem infrastructure



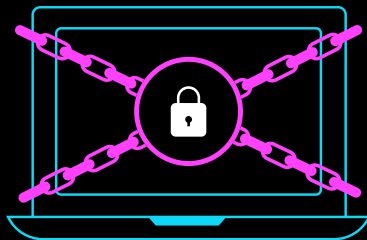
✓ Virtualization



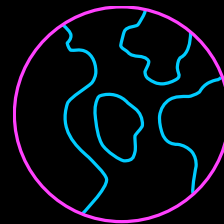
New Workloads



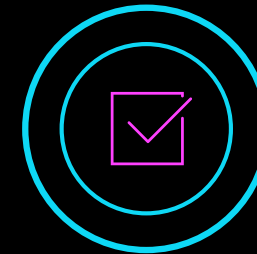
Cloud



Ransomware

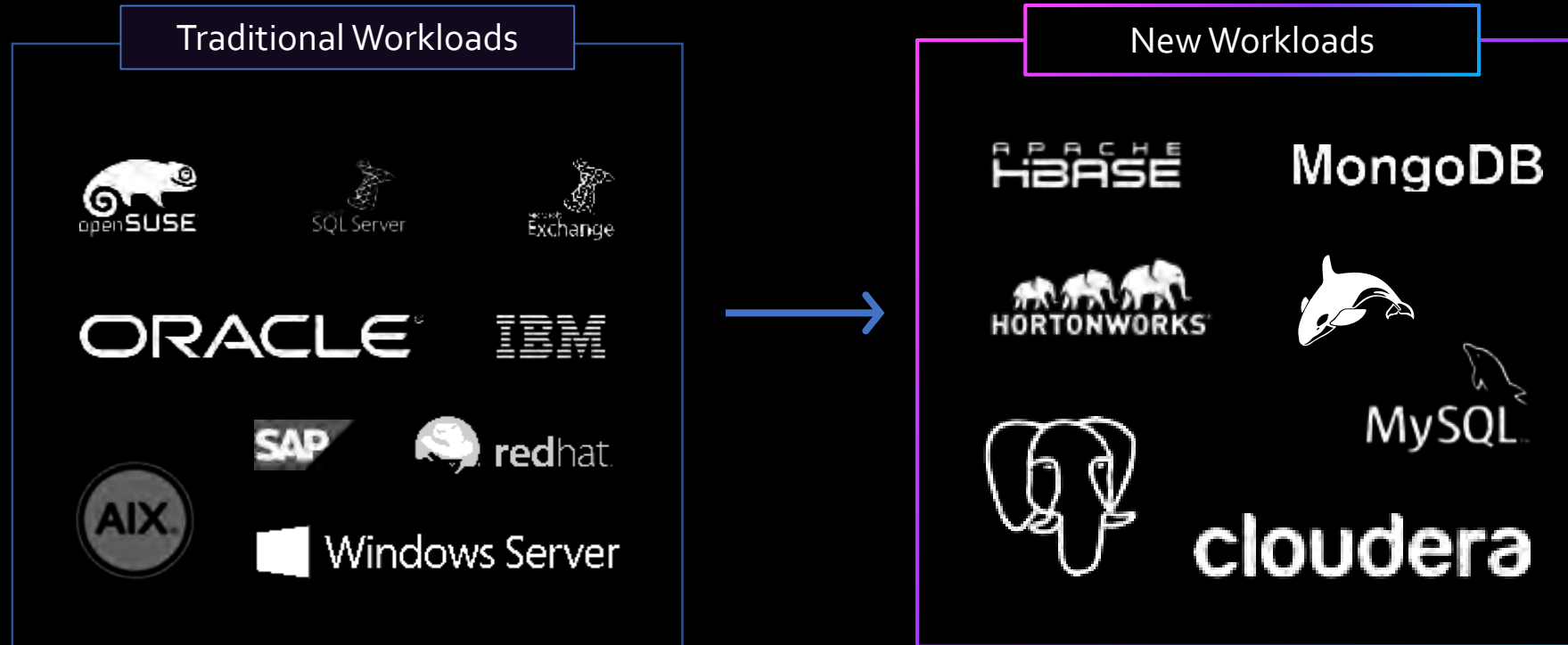


Data regulations

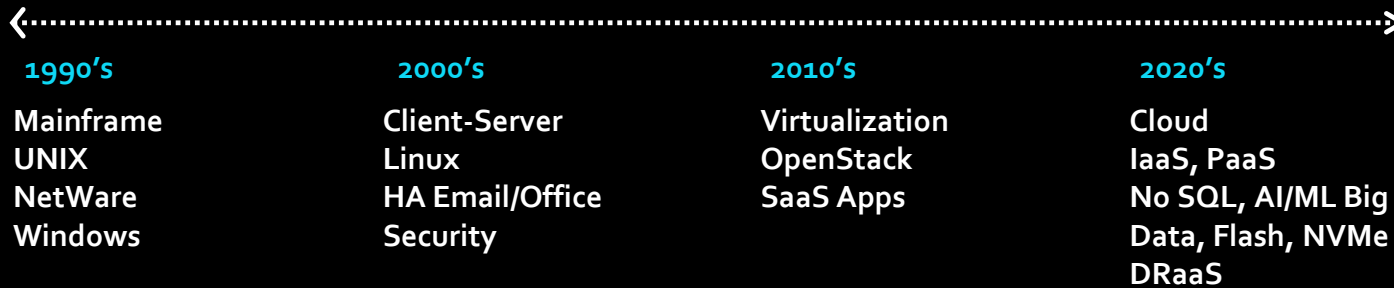


Complexity

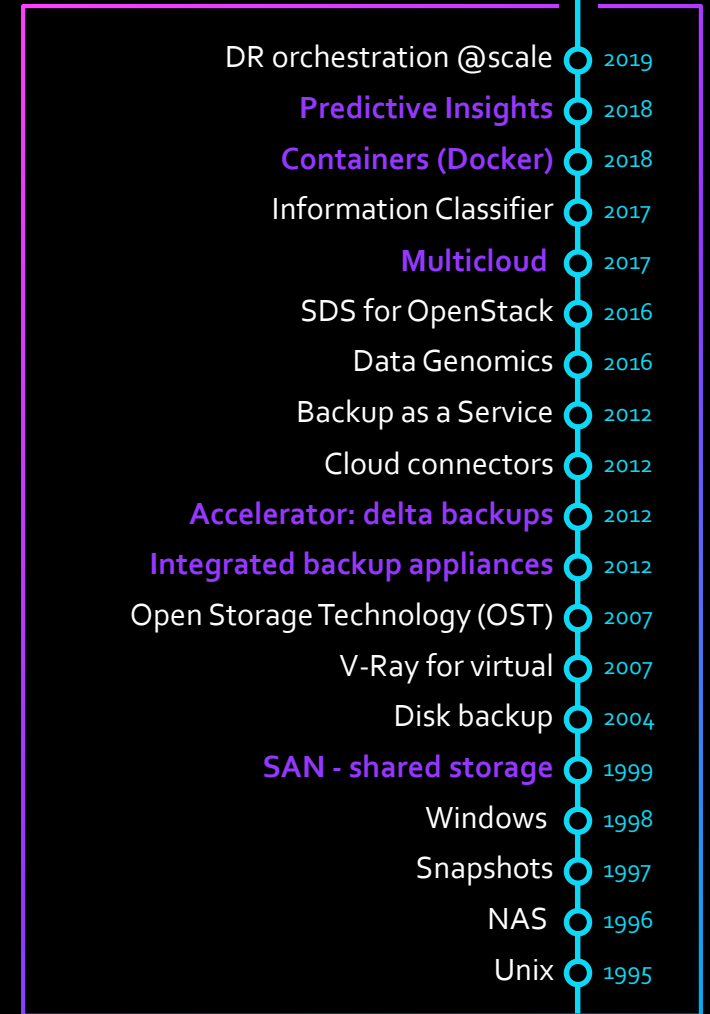
Prepare for the Future with Veritas Protection



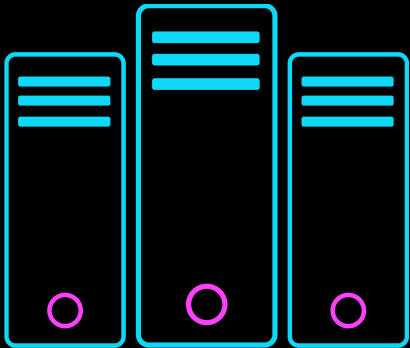
IT 변화를 포용하는 Veritas



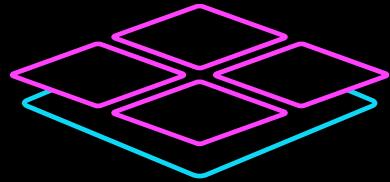
INNOVATIONS



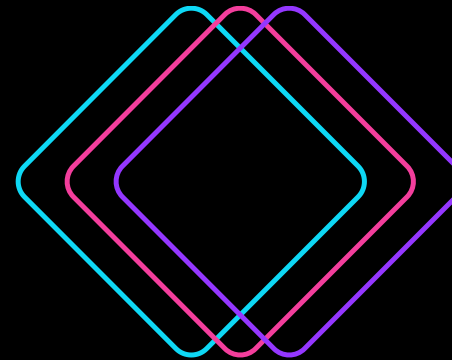
Data Protection Challenges



✓ On-prem infrastructure



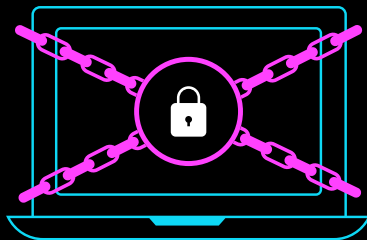
✓ Virtualization



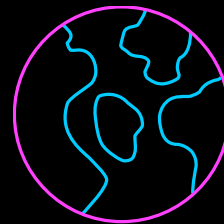
✓ New Workloads



Cloud



Ransomware

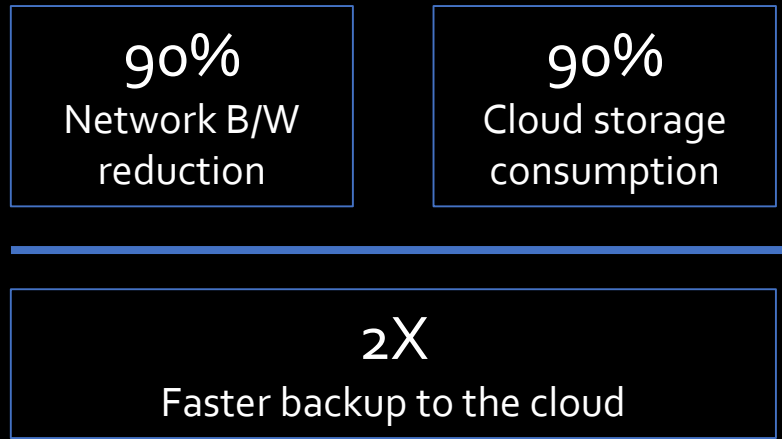
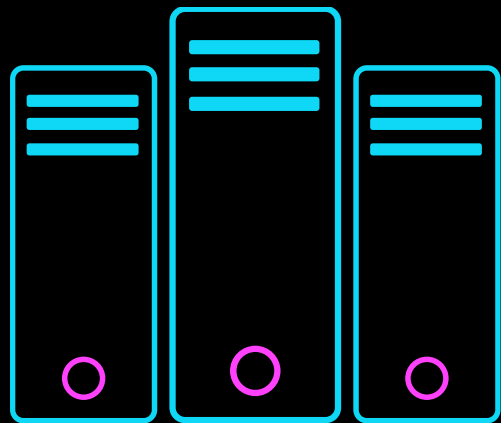


Data regulations



Complexity

Backup TO the Cloud

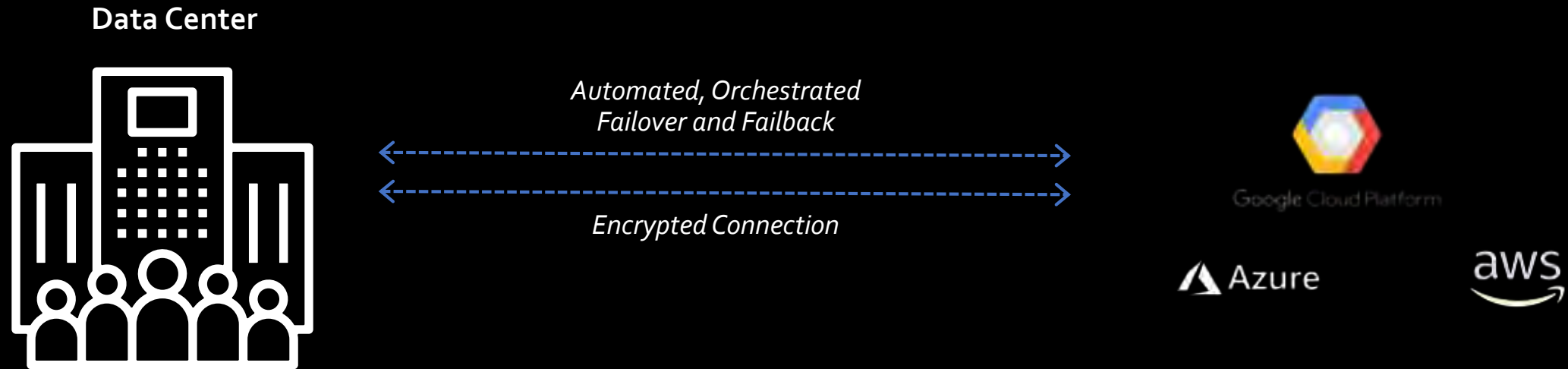


CloudCatalyst w/ 8.2



60+ Clouds

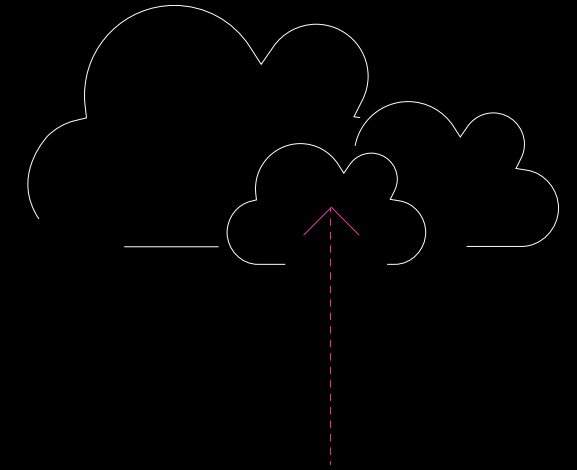
Disaster Recovery TO & IN the Cloud



- NetBackup 을 통한 클라우드 내 복구
- 자동화된 대규모 Failover 와 Failback
- 워크로드 별, 맞춤형 서비스 수준 목표 제공

And ...

- 150PB 이상의 백업 데이터를 Cloud 로 저장
- 단일 플랫폼을 통한 TO / FROM / IN Cloud 데이터 보호
- Faster end-to-end dedupe performance
- AWS Glacier, Deep Archive 지원
- Cloud Workload 를 위한 Snapshot 의 통합 오케스트레이션



Global media and entertainment company

GOAL:

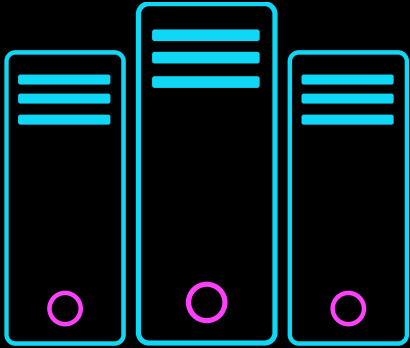
- Hybrid Cloud 환경에서의 통일된 보호 방안 구현

RESULTS:

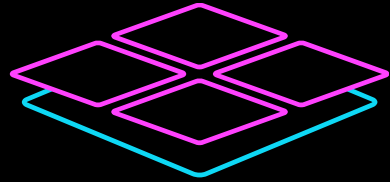
- On-prem, AWS 및 기타 Cloud 환경에 걸쳐 약 1,300TB 의 VM 데이터 보호
- PureStorage Snapshot 연동 백업 및 Tape 소산 구현
- PureStorage Snapshot 으로 부터 즉각 VM & file 복구



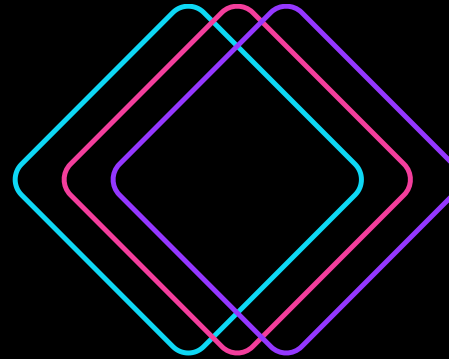
Data Protection Challenges



✓ On-prem infrastructure



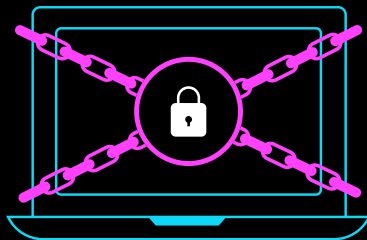
✓ Virtualization



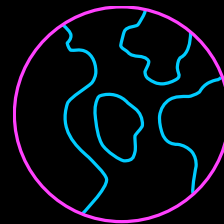
✓ New Workloads



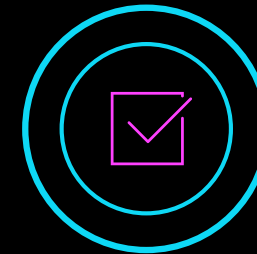
✓ Cloud



Ransomware



Data regulations



Complexity

Ransomware Threat

2017년
"000" 에레버스
(Erebus) 랜섬웨어
피해 발생

2018년
무료 홈페이지 빌더
제공업체 "000"
피해 발생

2018년
국내 피해 금액
1조 5,000억원

대가 지불 기업
6곳 중 1곳
데이터 복구 실패

「 13억 지불
(해커 50억 요구) 」

「 약 3,000여개 중소기업
홈페이지 접속 불가 」

「 지난 3년간 국내 피해
1만여건 발생 」

「 기업 타겟 랜섬웨어
증가 」

Ransomware Protection

Step 1: 안전한 데이터 백업

DISA STIG	FIPS 140-2	RBAC	IPv6	Firewall	SDCS
 <p>Security Technical Implementation Guides</p>	 <p>Federal Information Processing Standard</p>	 <p>Role Based Access Control</p>	 <p>IPv6 Support</p>	 <p>Control incoming and outgoing network traffic</p>	 <p>Symantec Data Center Security</p>
System Hardening	Cryptographic- Based Security	Access Control	Communications Protocol	Network Security	IDS/IPS

Ransomware Protection

Step 1: 안전한 데이터 백업

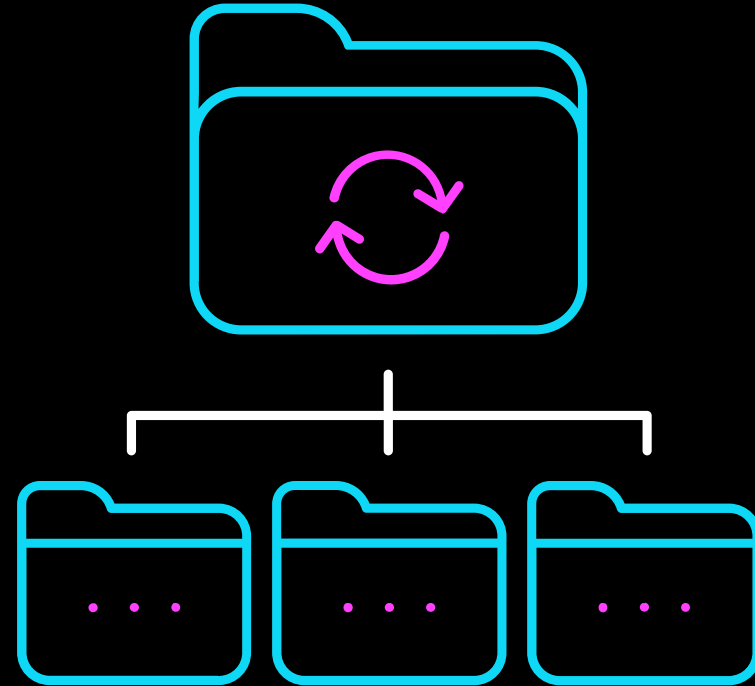
- 침입 차단(IPS) 및 탐지(IDS) 기능 기본 탑재
 - 랜섬웨어 실행파일 차단
 - 해킹시도 원천적 차단
- 보안 위험 요소 탐지 및 예방 기능 제공



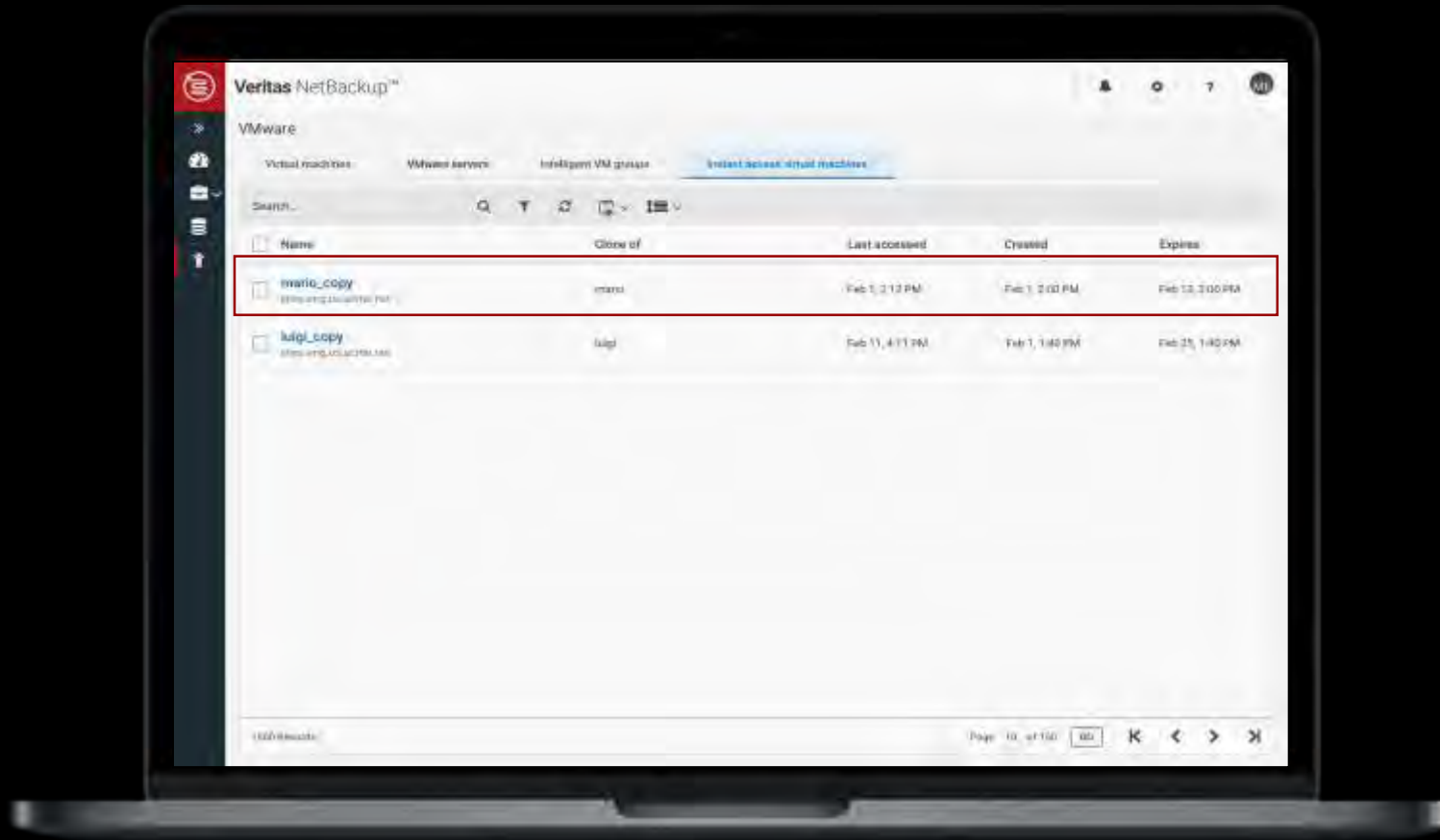
Ransomware Protection

Step 2: 즉각 복구로 다운타임 최소화

- 빠르고 신뢰할 수 있는 복구 방안 제공
- Instant Access (즉각 백업 데이터 접근)
- 개별 오브젝트만 복구



Instant Access



Step 1:
복구 대상 선정

Step 2:
복구 옵션 선택

Step 3:
새로운 VM 으로
접근 수행

Logistics and Supply Chain Organization

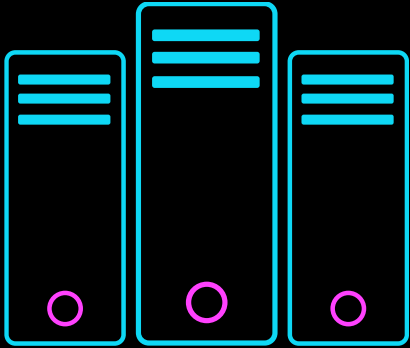
GOAL:

- Ransomware 위협으로 부터 보호 및 복구 방안 확보

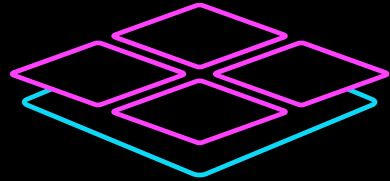
RESULTS:

- Appliance 를 통한 Ransomware 대응 방안 확립
- 비즈니스 다운타임을 경감을 위한 빠르고 효율적 복구 옵션 확보
- 백업된 VM으로 부터 Mount 없이 즉각 데이터, 파일 복구

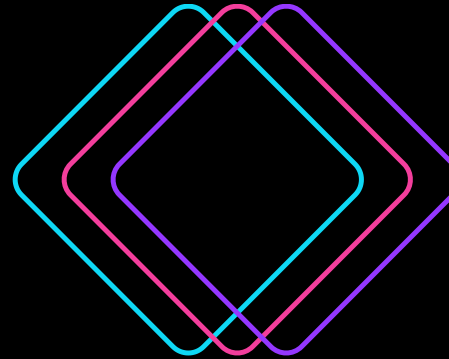
Data Protection Challenges



✓ On-prem infrastructure



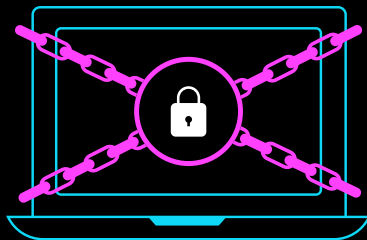
✓ Virtualization



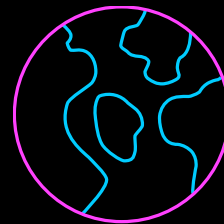
✓ New Workloads



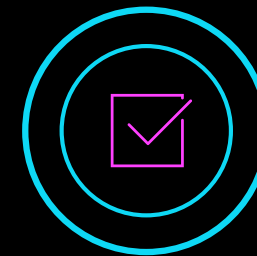
✓ Cloud



✓ Ransomware



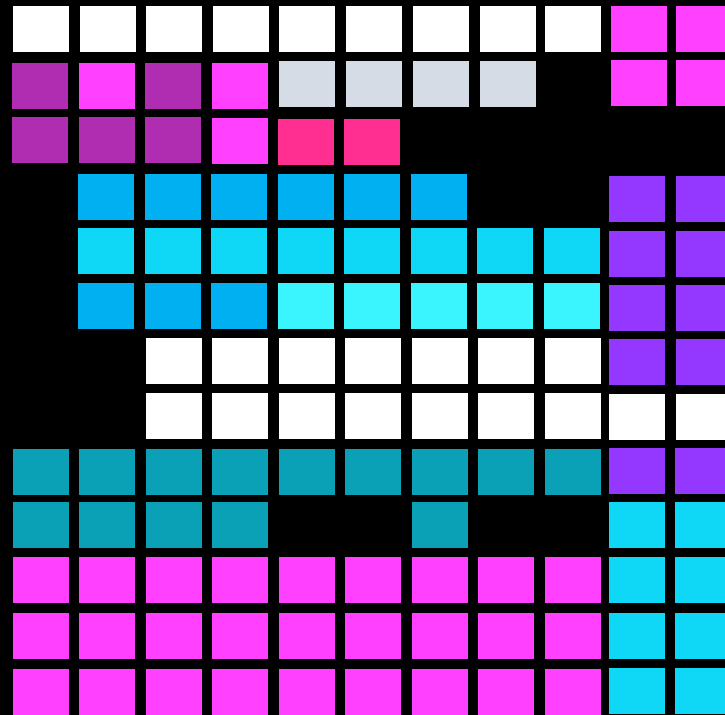
Data regulations



Complexity

보호 목표에 따른 관리

단기 보존

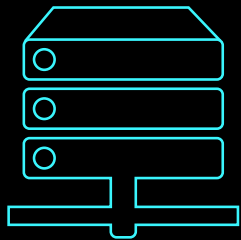


중/장기 보존

장기 보존

Meet your Data Retention needs

단기 보존



NetBackup
Appliance

중/장기 보존



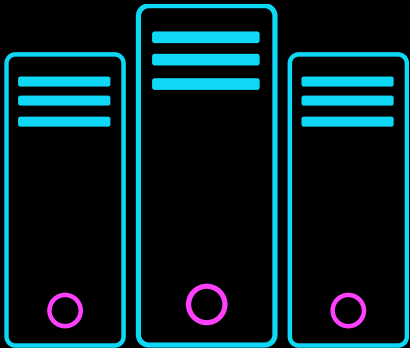
Access Appliance

장기 보존

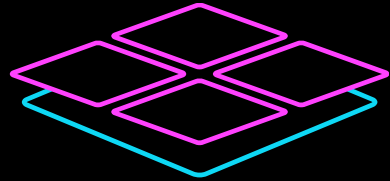


Public Cloud

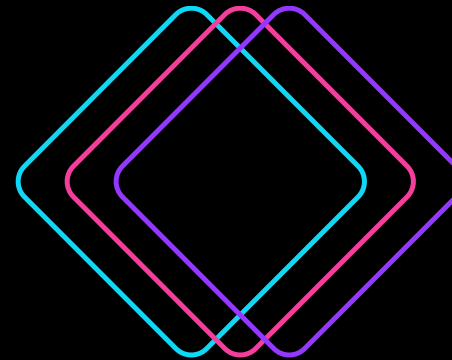
Data Protection Challenges



✓ On-prem infrastructure



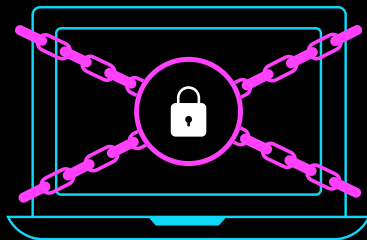
✓ Virtualization



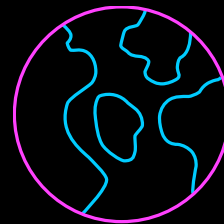
✓ New Workloads



✓ Cloud



✓ Ransomware



✓ Data regulations



Complexity

Ease of Use



클라우드 통합



백업 데이터 보안



확장성 있는 3-tier 아키텍처



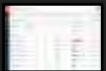
단일화된 통합 패치



가상환경 보호



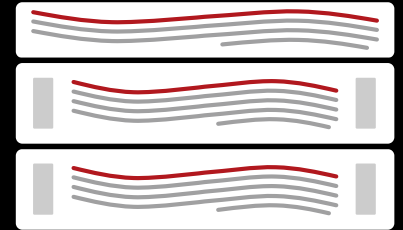
WAN 최적화



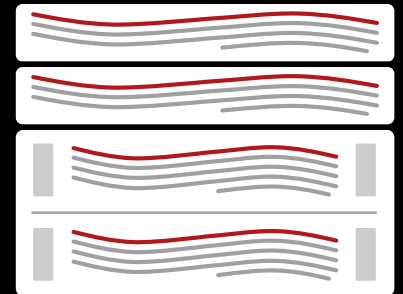
통합 관리



강력한 리포팅



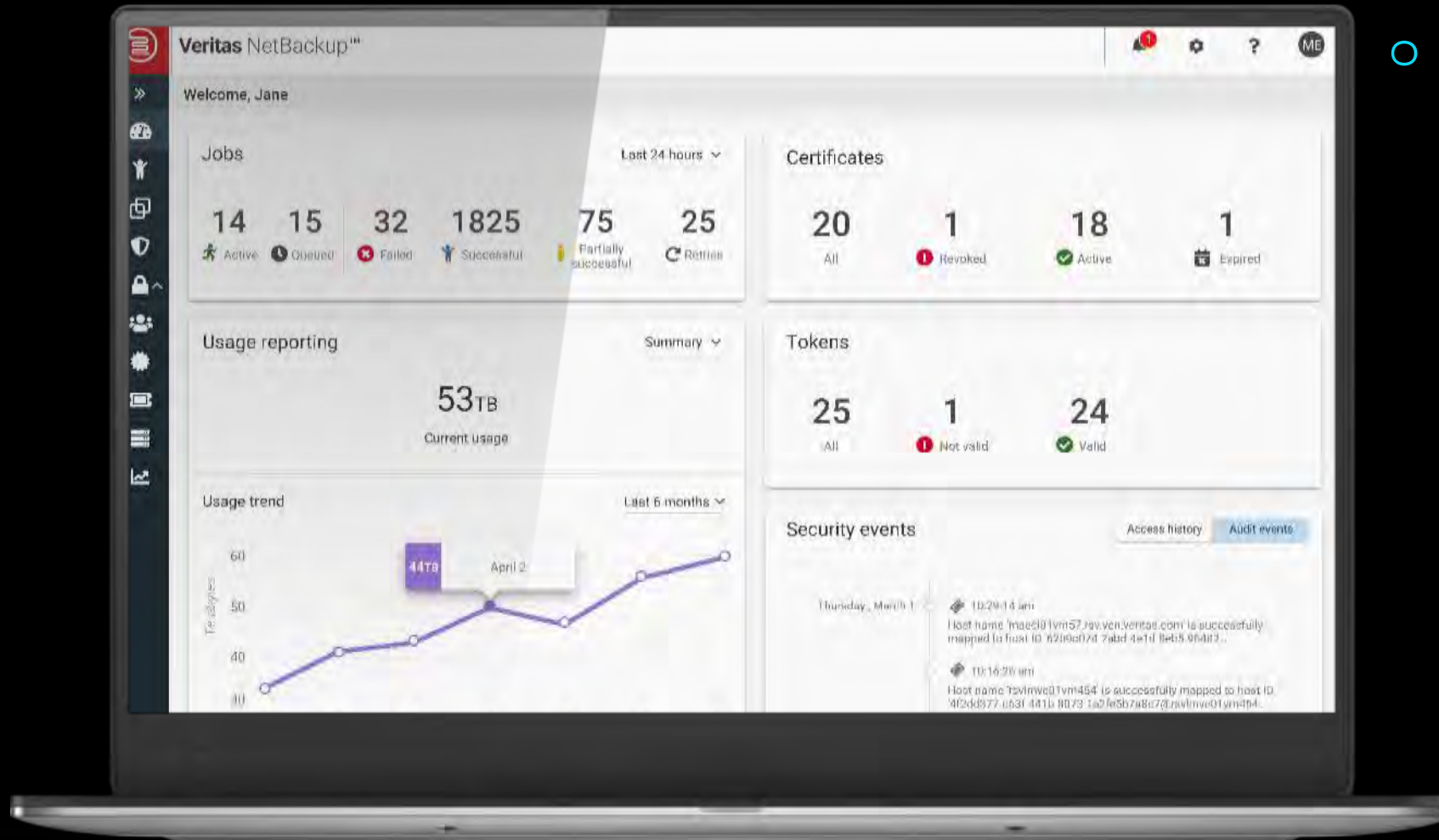
NetBackup 5240
Appliance



NetBackup 5340
Appliance

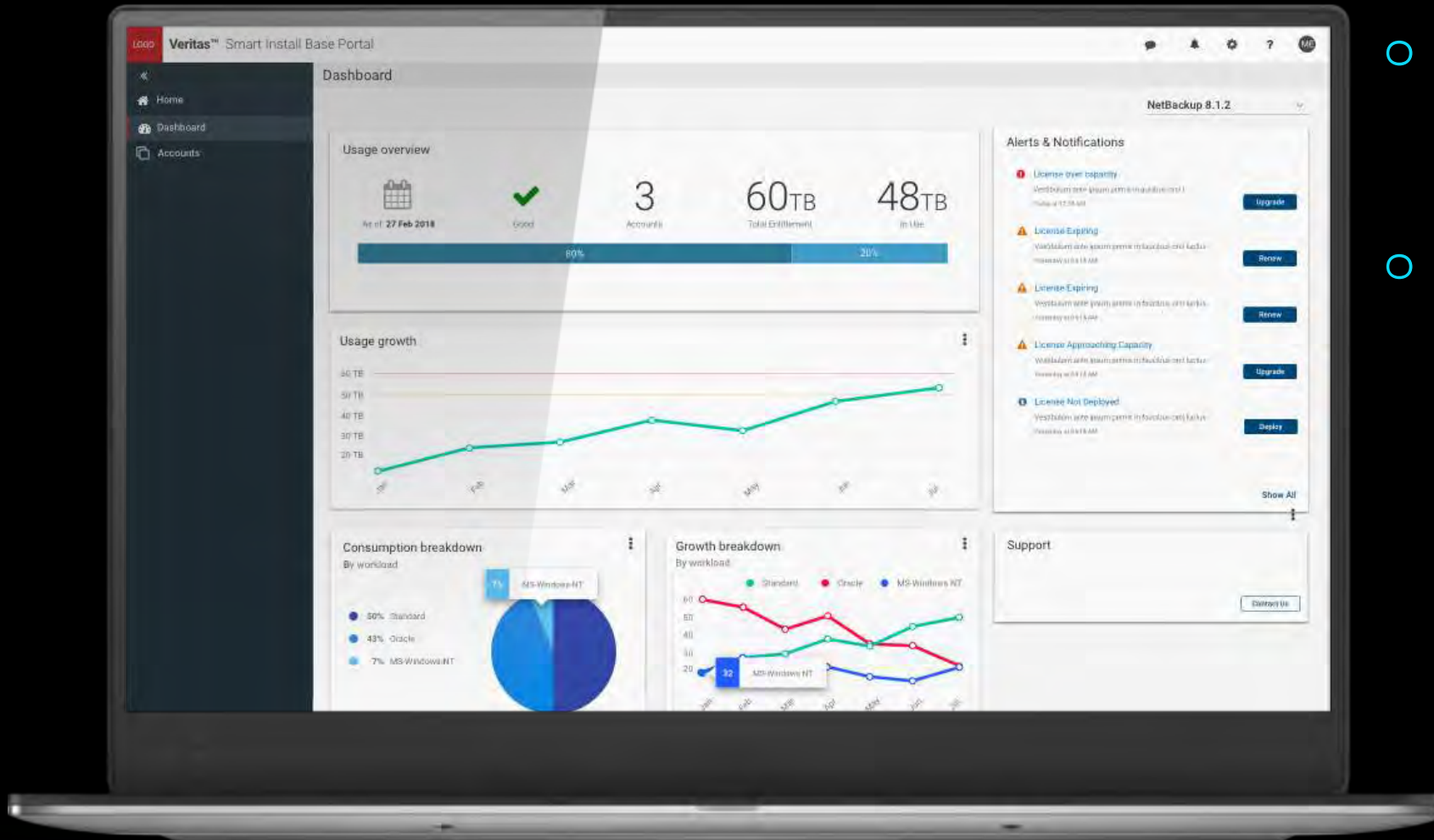
통합한 All-In-One 백업 어플라이언스 솔루션

Ease of Use



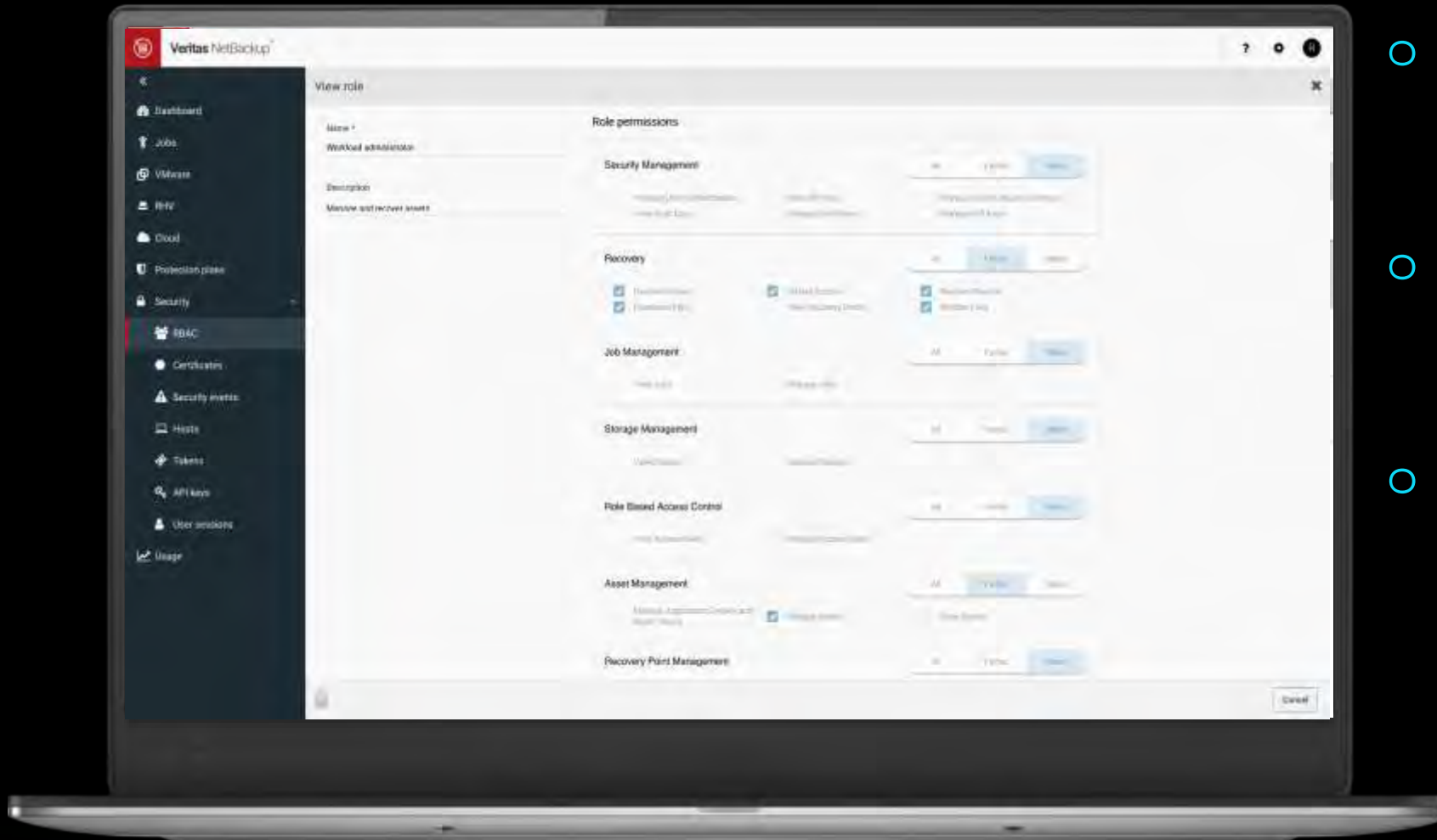
- Access Anytime Anywhere

Ease of Use



- Access Anytime Anywhere
- Real-time Usage Report

Ease of Use



- Access Anytime Anywhere
- Real-time Usage Report
- Role-based Access Control

Ease of Use

servicenow[™]

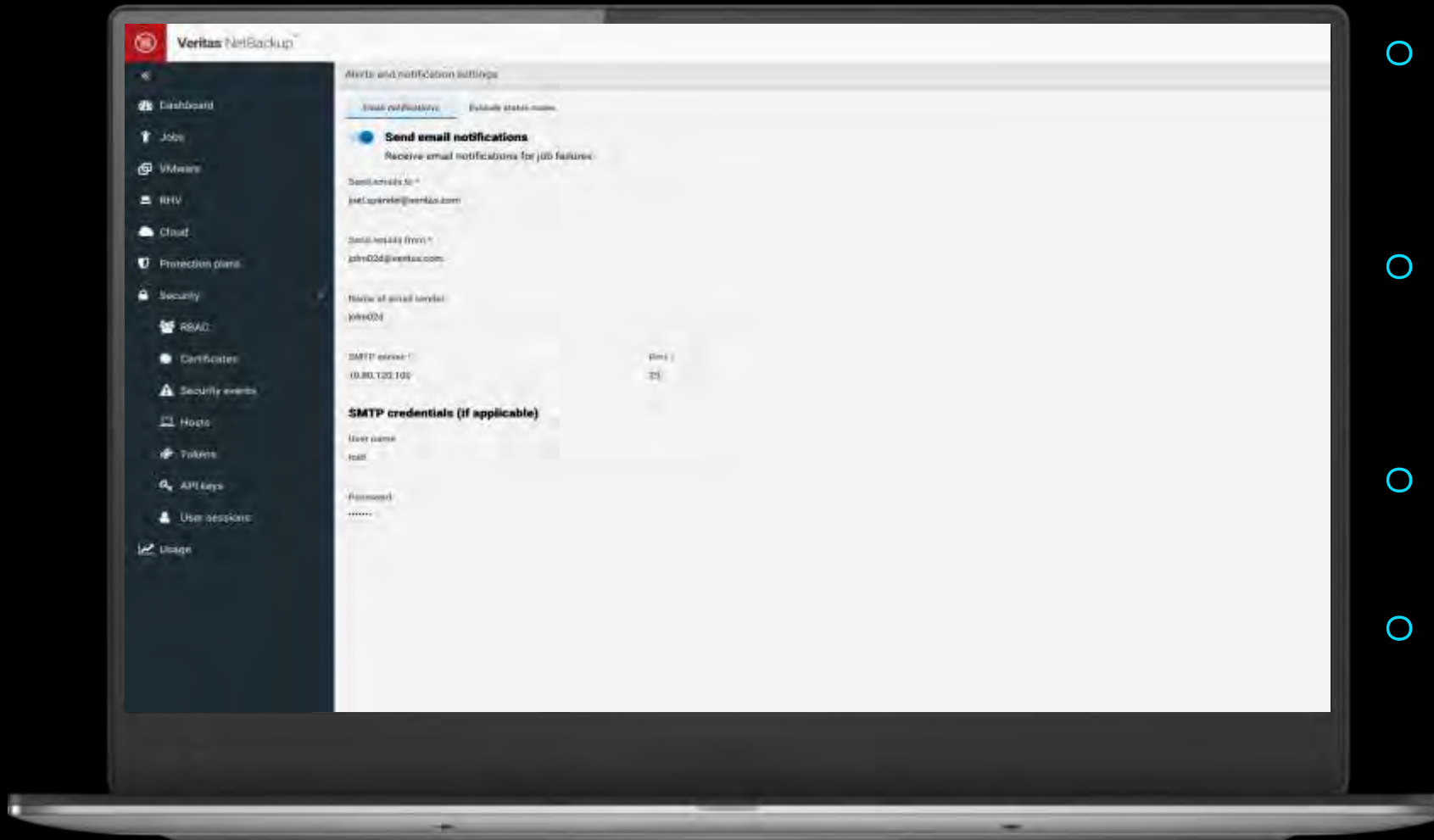


ANSIBLE



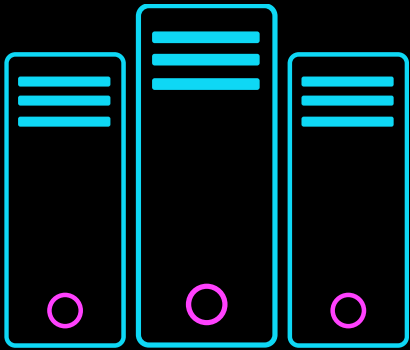
- Access
Anytime
Anywhere
- Real-time
Usage
Report
- Role-based
Access Control
- Integrating w/
3rd party applications

Ease of Use

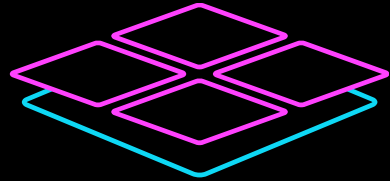


- Access Anytime Anywhere
- Real-time Usage Report
- Role-based Access Control
- Integrating w/ 3rd party applications

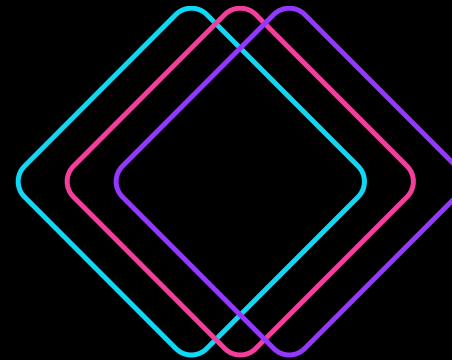
Data Protection Challenges



✓ On-prem infrastructure



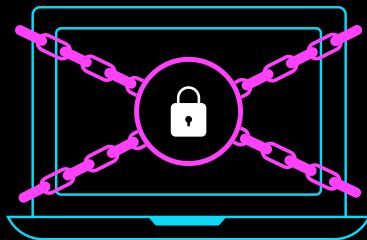
✓ Virtualization



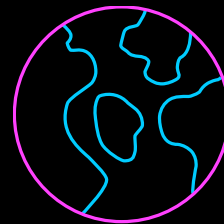
✓ New Workloads



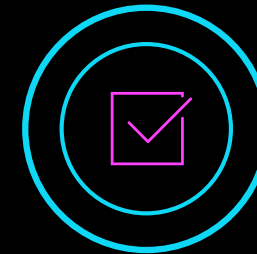
✓ Cloud



✓ Ransomware



✓ Data regulations

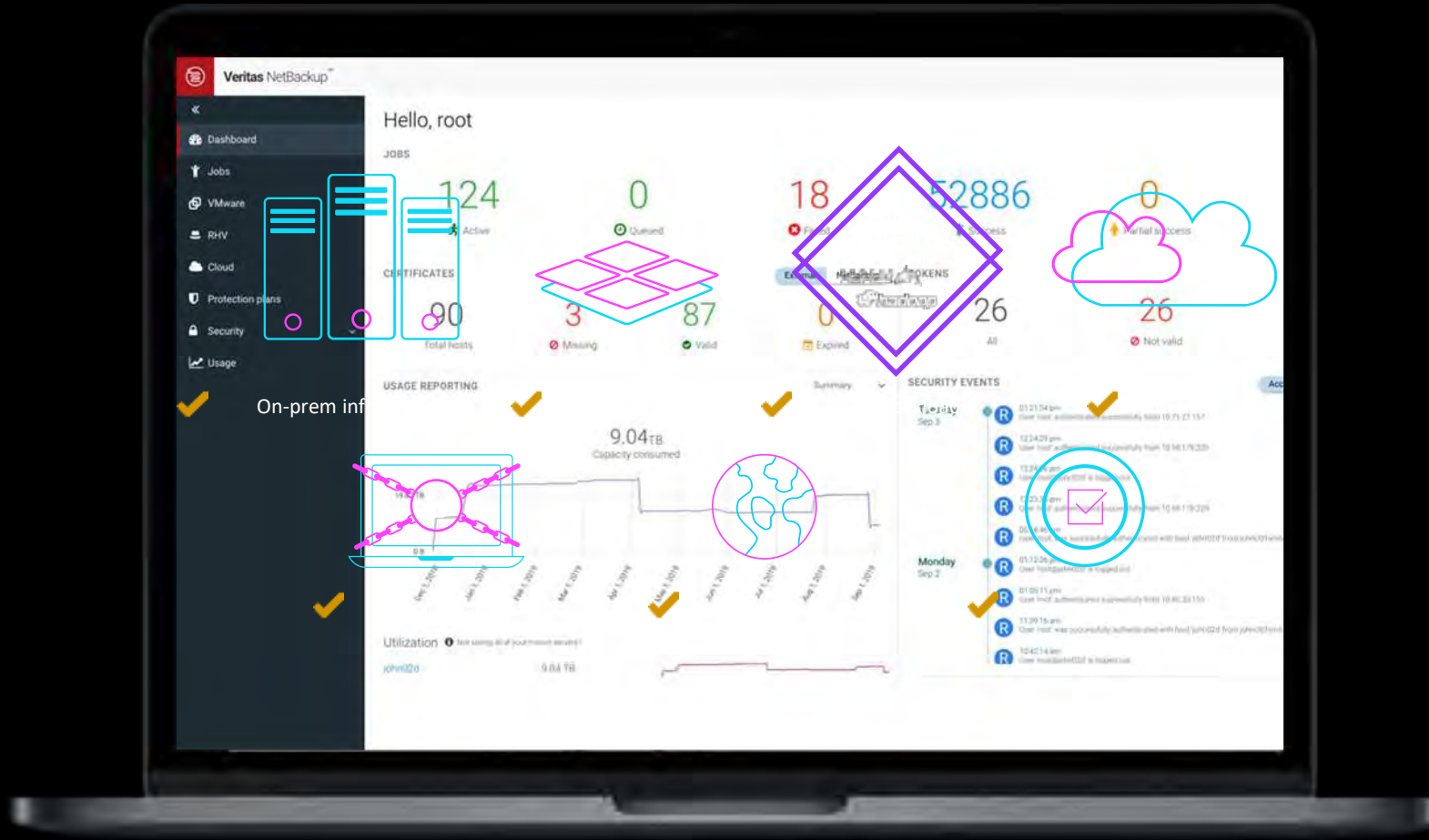


✓ Complexity

Results with Veritas

- On-prem, Virtual, Cloud 를 위한 통합된 데이터 보호
- 전반적인 TCO 절감 및 Cloud storage 비용 최소화
- Ransomware 로 부터의 안전한 데이터 보호 환경 구현
- Regulation & Compliance 대응 방안 확보
- 성능, 신뢰성, 편의성 향상

Why Organizations Trusts Veritas



99%
of Fortune 100

90%
of Fortune 500

10/10

Top Bank, Telecom, Financial Service
Companies

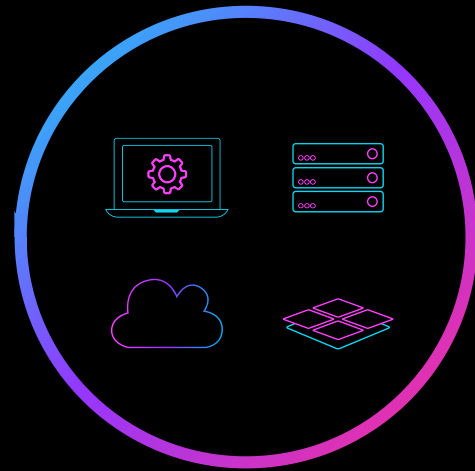
You can do with Veritas !!!



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Thank You

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Day