

# Carbon Black: 공개 문서

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# 기능 및 규격

# Cloud Workload Protection Platform (CWPP)

## 개요

VMware의 워크로드 보안 제품인 Carbon Black Cloud의 주요 기능 및 규격에 대해 에디션 별로 명시하여 정보제공요청서 혹은 제안요청서에 대응할 수 있도록 한다.

VMware 특징점은 붉은색으로 표기한다.

## 기능 요건

### 일반 및 관리

#### 콘솔

- HTML 5 기반의 웹 콘솔 환경 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/services/cbc-workloads-oer/GUID-C09ECFC2-7703-4BED-A272-44ABBD3A6B0D.html>
- 벤더 커뮤니티를 통한 보안 리포트 및 위협 색적 방안 수시 제공
  - <https://community.carbonblack.com>
- 여러 조직 별 관리 콘솔 생성 및 관리하는 멀티테넌시 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-ECCB09F4-34DB-4CBC-AA97-ACBD1431FFB9.html>

#### 관리

- 역할 관리
  - 콘솔 사용자 별 역할 부여
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-CF5ACD2C-A534-46C8-AE06-E1884DB37B58.html>
  - 모범사례 역할 제공
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-6B8FB45E-28AD-4986-B5D0-3EB83C5FF2DA.html>
  - 역할 커스터마이징 제공
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-2E02B16B-185E-434F-83C9-DD1F8ECBFD7.html>
- 범주 별 알림 제공
  - 일반 (경보 및 위협)
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-5D9EA7FC-4C46-4B6D-8D2B-467651EF1F28.html>
  - 쿠버네티스
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-E01F991F-7360-4C32-BD38-69ECFB5E2949.html>
- 보안 스택의 통합을 위한 API 및 SDK 제공
  - <https://developer.carbonblack.com/reference/carbon-black-cloud/platform-apis/>
- 로그 추출 및 SIEM 연동 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-4B780445-68B5-4B65-9E69-AF2AD9B33C46.html>
  - 기본 데이터 저장 기간 확장 지원

### 에이전트 운영 환경

- 공통
  - 운영체제 별 에이전트 그룹 분류 제공
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-225A2814-B26C-4404-B031-EABD5BF84894.html>
  - Active Directory 기반 에이전트 그룹 분류 제공
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-741989BE-4844-4953-B7FE-89A05A81EBE7.html>
  - Hostname 기반 에이전트 그룹 분류 제공
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID->

- 741989BE-4844-4953-B7FE-89A05A81EBE7.html#GUID-BDBF769E-BC7E-4A7B-BBF8-92A0193359E0 GUID-15D63B9E-8500-4B50-A8E9-6465E04C4F8E
- IP 서버넷 기반 에이전트 그룹 분류 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-741989BE-4844-4953-B7FE-89A05A81EBE7.html#GUID-BDBF769E-BC7E-4A7B-BBF8-92A0193359E0 GUID-15D63B9E-8500-4B50-A8E9-6465E04C4F8E>
- 에이전트 그룹 분류 기준 별 혼합 정의 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-741989BE-4844-4953-B7FE-89A05A81EBE7.html#use-of-logical-operators-for-sensor-group-criteria-2>
- 에이전트 활동 이용자 안내 여부 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-C8423E18-7163-46E7-9E94-9169CEFD6782.html>
- 에이전트 이용자 통제 여부 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-FF935B8B-5737-4CC2-85D4-DE5B5EEFE358.html>
- 이용자의 에이전트 삭제 시도 시 코드 요청 방안 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-sensor-installation-guide/GUID-6D511596-6A71-486D-ABAC-59B8345AF14D.html>
- 지원 운영체제 및 에이전트 버전 단위 라이프사이클 기간 명시
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-sensor-support-policy/GUID-9D4D7BB4-A1B8-4255-BA20-932B15934FFE.html>
- 복제형 VDI 인식 및 정리 방안 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-406CD399-F536-4150-8CFA-E48F1DC17E32.html>
- 자산 단위 격리 여부 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-C8769B0F-5184-4028-B915-56AFFE315989.html#quarantine-a-device-triggered-by-an-alert-2>
- 에이전트 설치 및 업그레이드 편의성 제공 (시스템 리부트 불필요)
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-sensor-installation-guide/GUID-1521D596-AE7A-4882-8A40-9741B7E807D3.html>
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-sensor-installation-guide/GUID-C974F5C4-BD57-4F16-85CD-D6F934BB3F4A.html>
- Windows
  - 데스크탑 및 서버 지원
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-oer-win-sensor-on-desktop/GUID-D51C23FB-C043-48E3-B01D-66F3573C72ED.html>
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-oer-win-sensor-on-server/GUID-149AAA9E-05D0-4208-B210-B1EF04C9C8B6.html>
  - Windows 보안센터 연동 제공
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-968C0E1F-170B-4EDB-80BE-731CBBEFF847.html>
  - AMSI 지원
    - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-E6EAE58C-466D-4C44-AF87-F3CA86B9737F\\_copy-xdr.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-E6EAE58C-466D-4C44-AF87-F3CA86B9737F_copy-xdr.html)
  - ARM64 칩셋 지원
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-oer-win-sensor-on-desktop/GUID-D51C23FB-C043-48E3-B01D-66F3573C72ED.html>
- Linux
  - 커널 기반한 다양한 운영체제 지원
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-oer-linux-sensor/GUID-3CBCD489-F097-4722-ABF9-B6A7EDC1F51D.html>
  - ARM64 칩셋 지원
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-oer-linux-sensor/GUID-B8767EEB-29E5-4F26-9B1A-0EDB17B72B63.html>
- Mac
  - Kernel Extensions 기반 지원
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-sensor-installation-guide/GUID-D2BF71B6-2352-4DE1-841A-E727CC75232E.html>
  - System Extensions 기반 지원
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-sensor-installation-guide/GUID-50A83AD4-3D85-415A-9C4D-DD3FFA6D637E.html#GUID-50A83AD4-3D85-415A-9C4D-DD3FFA6D637E>
  - ARM64 칩셋 지원
    - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-audit-and-remediation-oer/GUID-9ABB1F2E-1C08-439A-B4FB-F455FDDEF7F1.html>

## Prevention

### 예방

- 네이티브 프로그램과 일반적인 스크립팅 언어를 활용하는 악성 파일리스 및 파일 지원 스크립트를 방지

- Advanced Scripting Prevention
- <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-on-VMware-Cloud-Services-Platform/services/carbon-black-cloud-on-csp-user-guide/GUID-98F6D21F-E6F0-48CB-926A-40F1D489E585.html>
- **악의적인 활동에 사용되는 일반적이고 널리 퍼져 있는 TTP와 Carbon Black의 위협 분석 부서에서 탐지한 일상적인 TTP 행위에 대응**
  - Carbon Black Threat Intel
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-on-VMware-Cloud-Services-Platform/services/carbon-black-cloud-on-csp-user-guide/GUID-98F6D21F-E6F0-48CB-926A-40F1D489E585.html>
- 자격 증명을 획득하는 위협 행위자에 대응하고 이러한 활동을 나타내는 악의적인 TTP 행위에 대응
  - Credential Theft
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-on-VMware-Cloud-Services-Platform/services/carbon-black-cloud-on-csp-user-guide/GUID-98F6D21F-E6F0-48CB-926A-40F1D489E585.html>
- 보안 소프트웨어 제거 또는 비활성화, 데이터/스크립트 난독화 또는 암호화, 신뢰할 수 있는 프로세스를 악용하여 악성 활동을 숨기고 위장하는 등 위협 행위자가 탐지를 피하기 위해 사용하는 일반적인 TTP 행위에 대응
  - Defense Evasion
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-on-VMware-Cloud-Services-Platform/services/carbon-black-cloud-on-csp-user-guide/GUID-98F6D21F-E6F0-48CB-926A-40F1D489E585.html>
- 위협 행위자가 재시작, 자격 증명 변경, 기타 액세스를 차단할 수 있는 기타 중단을 통해 시스템에 대한 액세스 권한을 유지하기 위해 사용하는 일반적인 TTP 행위에 대응
  - Persistence
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-on-VMware-Cloud-Services-Platform/services/carbon-black-cloud-on-csp-user-guide/GUID-98F6D21F-E6F0-48CB-926A-40F1D489E585.html>
- 위협 행위자가 운영 체제의 버그 또는 잘못된 구성을 통해 상승된 액세스 권한을 획득했음을 나타내는 동작을 해결하고 이러한 활동을 방지하기 위한 TTP 행위에 대응
  - Privilege Escalation
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-on-VMware-Cloud-Services-Platform/services/carbon-black-cloud-on-csp-user-guide/GUID-98F6D21F-E6F0-48CB-926A-40F1D489E585.html>
- 지정 프로세스에 대해 보안 위협 행위의 유형 별 허용 및 불허 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-1A8BDB2B-BE96-4739-950D-99F194E7458C.html>
- **프로세스 범주에 대해 보안 위협 행위의 유형 별 허용 및 불허 기능 제공**
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-on-VMware-Cloud-Services-Platform/services/carbon-black-cloud-on-csp-user-guide/GUID-B3A6CD73-9FE7-41C1-945B-D878527A0B63.html>
- **프로세스 종료 및 파일 삭제 등을 통한 공격 중단 지원**
  - <https://docs.vmware.com/en/VMware-Carbon-Black-EDR/7.7.1/vmw-cb-edr-ug/GUID-6B68C4D7-C113-4D55-BD34-B93331A5C052.html>

## 검사

- USB 장치 정보에 기반한 허용 및 불허 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-19B3084E-7092-494C-8484-5B333F423135.html>
- 안티바이러스 시그니처 기반 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-84D98399-8E46-42DF-8ED5-F90E65069954.html>
- 에이전트 설치 전 존재한 맬웨어 차단을 위한 백그라운드 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-8FECF4D4-3FFA-4102-91EA-2CD042C7FD84.html>
- 컴퓨터 성능을 위한 실행 파일 (exe, dll, scripts) 포커스 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-79EE2C6A-2102-4C2A-BB3B-BB51E7CCB884.html>
- 컴퓨터 자원 절약을 위한 낮은 우선 순위 백그라운드 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-8FECF4D4-3FFA-4102-91EA-2CD042C7FD84.html>
- 빠른 색적을 위한 높은 우선 순위 백그라운드 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-8FECF4D4-3FFA-4102-91EA-2CD042C7FD84.html>
- 평판 기반 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-84BBD4DA-CA1C-437D-A42D-95FDE82B6E81.html>
- 엄격하게 제어되는 환경 운영을 위해 바이너리 실행 전 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-3CCF9929-0913-4F2A-8086-087A423CFE88.html>
- 실시간 원격 접속 및 진단 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-DED51138-E9A8-4BCC-873E-5768DAB596BE.html>
- 에이전트 상태 보고 확인
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/cbc-sensor-installation-guide/GUID-C8423E18-7163-46E7-9E94-9169CEFD6782.html>
- 메모리 덤프
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-DED51138-E9A8-4BCC-873E-5768DAB596BE.html>
- 네트워크 드라이브 스캔 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID->

[E7A4C98A-9A41-4B36-A5D0-5CC9B9EF44B0.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-E7A4C98A-9A41-4B36-A5D0-5CC9B9EF44B0.html)

- 맬웨어 격리/삭제/추출 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-F855AA34-7058-455E-B17A-B2E9265B5974.html>
- 클라우드 분석 제공
  - 샌드박스 분석
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-3CCF9929-0913-4F2A-8086-087A423CFE88.html>

## Standard

### 보호

- 사용자화 침해지표 경보 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-D15FC6CD-4360-4816-BCF7-AF2D9538529C.html>
- USB 장치 통제 경보 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-C51FFEEC-AB70-4C15-873D-3BD2FA85EE25.html>
- 클라우드 분석 경보 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-03EDC0BC-375F-4F4E-B611-B94265B56018.html>
- 심각도 분석 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-95388BA8-00FA-432C-ABC0-7C3353D19D35.html>
- 유사 경보의 자동 그룹화 통한 행위 기반 경보 시야 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-7AE51D2D-0DAD-43E5-BE01-D664B4BD8C0A.html>
- 경보 및 조사 기능 연동
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-15C429CA-7129-4171-BB0B-3F7132DA01EF.html>
- 경보 대응 빠른 방안 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-C8769B0F-5184-4028-B915-56AFFE315989.html>
- 경보 내 유형 별 필터 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-4718F7A2-1CCA-4FA2-8491-03A405F551E3.html>
- 경보 관련 근본원인분석 및 시각화 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-FBE02855-EB56-45CA-9E4A-A69D1903FBF6.html>

### 행위 탐지 및 대응

- 모든 프로세스 근본원인분석 및 시각화 조사 제공
  - 부모 및 자식 프로세스에 대한 상관 관계 분석
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-AA8ABBA8-C8D7-434F-85D0-DE4BE78E5E42.html>
- 파일 수정 여부 수집
  - <https://docs.vmware.com/en/VMware-Carbon-Black-EDR/7.7.1/vmw-cb-edr-ug/GUID-9CF0F950-E9B8-45C7-9FD5-887866657AAF.html>
- 레지스트리 수정 여부 수집
  - <https://docs.vmware.com/en/VMware-Carbon-Black-EDR/7.7.1/vmw-cb-edr-ug/GUID-9CF0F950-E9B8-45C7-9FD5-887866657AAF.html>
- 네트워크 접속 등 연결에 대한 정보 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-EDR/7.7.1/vmw-cb-edr-ug/GUID-9CF0F950-E9B8-45C7-9FD5-887866657AAF.html>
- TTPs and MITRE 기법 참조 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-857AA662-6DA1-4265-99E7-A65B7E1F50CC.html>
- 악성 이벤트 의심 내역 조사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-A9A1FD79-AC43-4CAC-B1D8-4B0A69FF8407.html>
- 스크립트 기반 공격 조사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-187BF058-1719-4E57-9A5A-E9D338D62C99.html>

## Workload Protection

- 하이퍼바이저 커널 기반 모듈 제공
  - vCenter를 통해 배포 명령 내릴 수 있는 ESXi 하이퍼바이저 VIB 패키지 제공
  - Instant Clone VDI 등의 인식에 도움

- [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack\\_workload/GUID-071DC7EC-3CB1-487B-BBB9-CD670513EA70.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack_workload/GUID-071DC7EC-3CB1-487B-BBB9-CD670513EA70.html)
- 하이퍼바이저 관리자와 웹 콘솔 간 보안 명령 중계 가상 애플라이언스 제공
  - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack\\_workload/GUID-E2ED3713-315B-4EEE-A3E8-A7A09A011101.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack_workload/GUID-E2ED3713-315B-4EEE-A3E8-A7A09A011101.html)
- 하이퍼바이저 관리자와 웹 콘솔 간 보안 명령 중계에 프록시 통한 이중 보안 방안 제공
  - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack\\_workload/GUID-E579E334-80F1-4876-8AA0-F29BAB441887.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack_workload/GUID-E579E334-80F1-4876-8AA0-F29BAB441887.html)
- 하이퍼바이저 관리자와 가상 애플라이언스 통합하여 인프라 및 보안 간 동일 시야 방안 제공
- 엄격하게 제어되는 환경을 운영하여 워크로드를 안전하게 보호하고 인터넷 트래픽에 직접 노출되지 않도록 가상 애플라이언스 제공
  - Sensor Gateway
  - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack\\_workload/GUID-CC4071BA-E3A5-4E3D-A659-AF2F14B508C6.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.2/carbonblack_workload/GUID-CC4071BA-E3A5-4E3D-A659-AF2F14B508C6.html)

## Advanced

### Audit & Remediation

- Osquery 통한 에이전트 배포 환경의 규정 준수 및 위협도 실시간 검사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-3DD4AC73-3531-4023-85A1-09D469214920.html>
- Osquery 템플릿 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-129D4F84-1BF0-49F3-BF95-83002FD63217.html>
- Osquery 사용자화 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-3DD4AC73-3531-4023-85A1-09D469214920.html>
- CIS Benchmarks 수행 및 보고 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-E5EFA185-AB06-41A0-ABF4-9BA4CD1E1032.html>

### Vulnerability Management

- Windows 운영체제 및 애플리케이션 취약점 확인 및 평가 제공
  - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.1/carbonblack\\_workload/GUID-12E5C0BF-566D-43F3-BB41-63DEE1E182E3.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.1/carbonblack_workload/GUID-12E5C0BF-566D-43F3-BB41-63DEE1E182E3.html)
- Linux 운영체제 및 애플리케이션 취약점 확인 및 평가 제공
  - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.1/carbonblack\\_workload/GUID-12E5C0BF-566D-43F3-BB41-63DEE1E182E3.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud-Workload/1.1/carbonblack_workload/GUID-12E5C0BF-566D-43F3-BB41-63DEE1E182E3.html)
- CVSS 기반 위협 계측 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-F99243BC-3CD5-4EEE-B9D5-CE31A112BD66.html>
- CVE-ID 기준 안내 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-3621AFA1-668C-4E9E-923E-E8E9D01AE99E.html>

## Enterprise

### Enterprise EDR

- 인증 이벤트 조사 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-18D2C498-DD6A-4731-BD61-7EF7B471401E.html>
- 바이너리 자동 상세 보고 제공
- **바이너리 수집 제공**
- 강화된 데이터 조사 쿼리 제공
  - <https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-18D2C498-DD6A-4731-BD61-7EF7B471401E.html>
- 위협 정보와 보안담당자의 쿼리를 추가해 사용자화 침해지표 목록 생성 및 관리 제공
- 이상징후 분류 경보 연동
  - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-1759B0E7-A08A-48CC-954B-E75017A3A02B\\_copy-xdr.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-1759B0E7-A08A-48CC-954B-E75017A3A02B_copy-xdr.html)

## Add-on

### Host Based Firewall

- <https://carbonblack.vmware.com/resource/vmware-carbon-black-cloud-host-based-firewall-solution-brief?path=/carbon-black-host-based-firewall>



## Extended Detection and Response (XDR)

- Network Detection and Response
  - <https://carbonblack.vmware.com/resource/carbon-black-xdr-technical-overview#network-connection-visibility>
- Host Intrusion Detection System
  - <https://carbonblack.vmware.com/resource/carbon-black-xdr-technical-overview#ids-observations>
- Anomaly Classification
  - [https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-1759B0E7-A08A-48CC-954B-E75017A3A02B\\_copy-xdr.html](https://docs.vmware.com/en/VMware-Carbon-Black-Cloud/services/carbon-black-cloud-user-guide/GUID-1759B0E7-A08A-48CC-954B-E75017A3A02B_copy-xdr.html)

## Extended Data Retention

- <https://blogs.vmware.com/security/2021/05/announcing-increased-data-retention-for-vmware-carbon-black-cloud.html>

## Managed Detection

- <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/docs/vmwcb-datasheet-managed-detection.pdf>

## Managed Detection and Response

- <https://www.vmware.com/products/managed-detection-and-response.html>

## 기능 매트릭스

FEATURE	Prevention	Standard	Advanced	Enterprise
Policy-Based Prevention	☑	☑	☑	☑
Up-to-Date Threat Intel	☑	☑	☑	☑
Malware Detection & Deletion	☑	☑	☑	☑
Prevention Alerts	☑	☑	☑	☑
Alert Triage	☑	☑	☑	☑
Bypass & Quarantine	☑	☑	☑	☑
Process Banning		☑	☑	☑
Event Investigation		☑	☑	☑
Behavioral EDR		☑	☑	☑
Device Control		☑	☑	☑
API, Event Forwarder		☑	☑	☑
Audit and Remediation			☑	☑
> Live Query			☑	☑
> Live Response			☑	☑
> CIS Benchmarks			☑	☑
Vulnerability Management			☑	☑
Enterprise EDR				☑
> Anomaly Classification				☑
Watchlists				☑
Process Trees				☑
Workload Protection		☑	☑	☑
> vSphere Integration		☑	☑	☑



> Sensor Gateways		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Host Based Firewall		add-on	add-on	add-on
Extended Detection and Response (XDR)		add-on	add-on	add-on
> Network Detection and Response		add-on	add-on	add-on
> Host Intrusion Detection System		add-on	add-on	add-on
Extended Data Retention	add-on	add-on	add-on	add-on
Managed Detection		add-on	add-on	add-on
Managed Detection and Response		add-on	add-on	add-on

# 고지사항

총판인 에티버스의 해석 및 검토의견은 특정한 효력이 없으며, 진행과 결정을 보다 수월하도록 돕기 위한 참고 용도로서 제공됩니다. 사업 진행 시, 특히 정보제공요청서 작성 등에는 수행을 책임지는 담당자와 함께 충분한 검토하여 진행하시기 바랍니다.

# 설치 : 서버 설치 요구 사항

## 개요

App Control 서버를 설치하기 전 요구 사항에 대해 정리한 문서입니다.

## 진행 방법

① 단일 환경 구성 기반으로 작성되었습니다.

### 1. 서버 요구 사항

#### 1.1 서버 운영 체제

OS	버전	서비스 팩	비고
Windows Server 2012 R2			
Windows Server 2016			
Windows Server 2019			
Windows Server 2022			

# Community

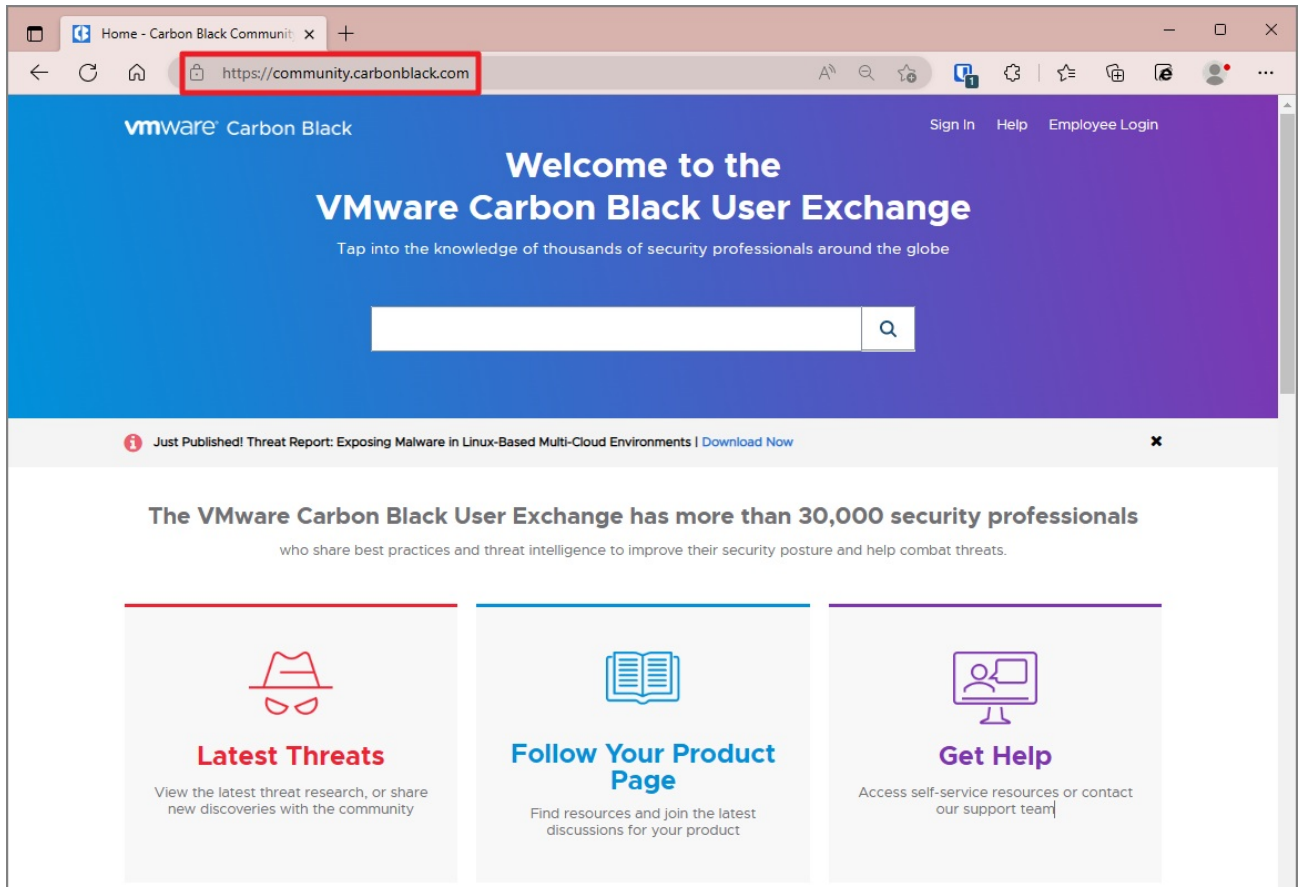
Support Request

# VMware Carbon Black Community 가이드

## 개요

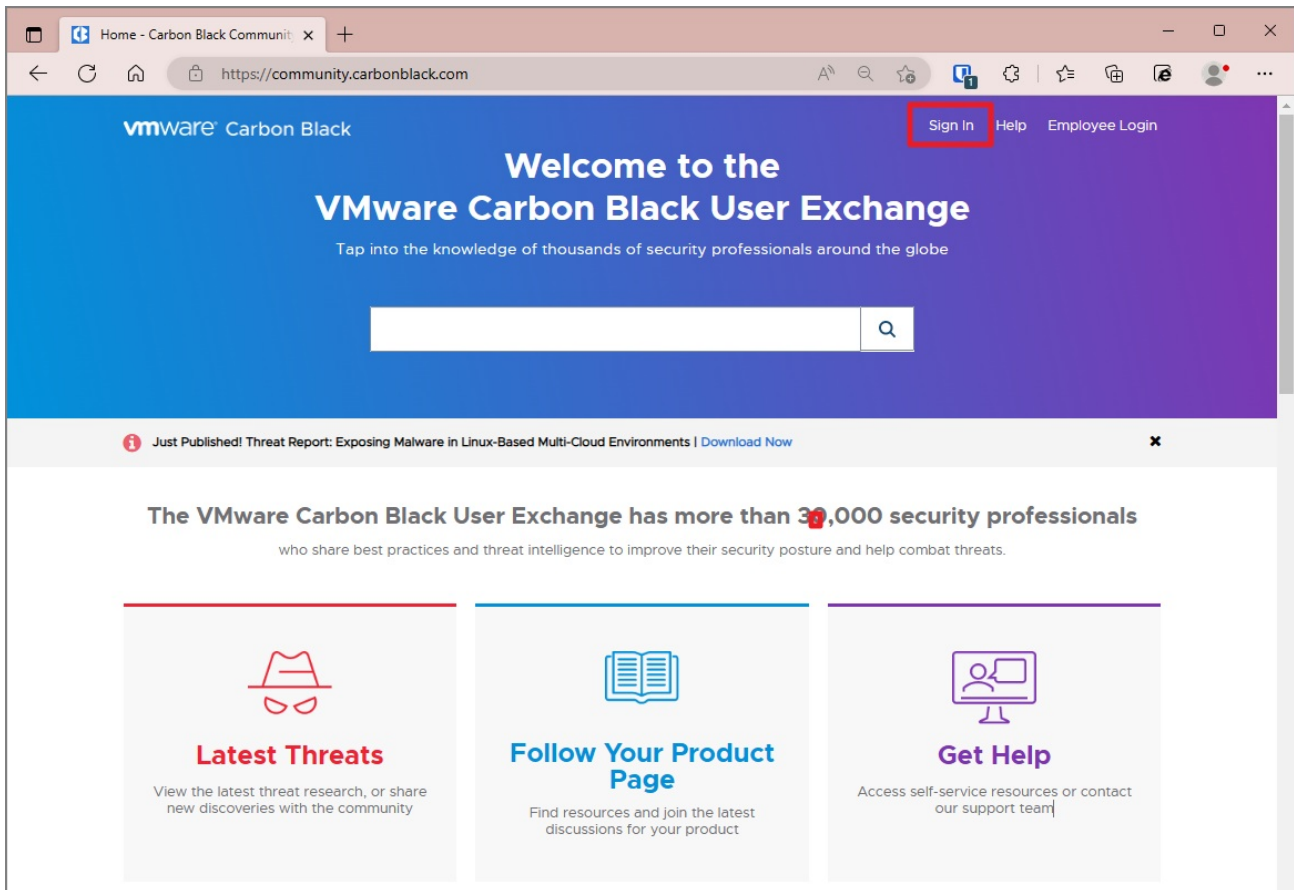
Carbon Black Community 활용 방안을 안내하기 위한 가이드입니다.

## 가입 및 관리

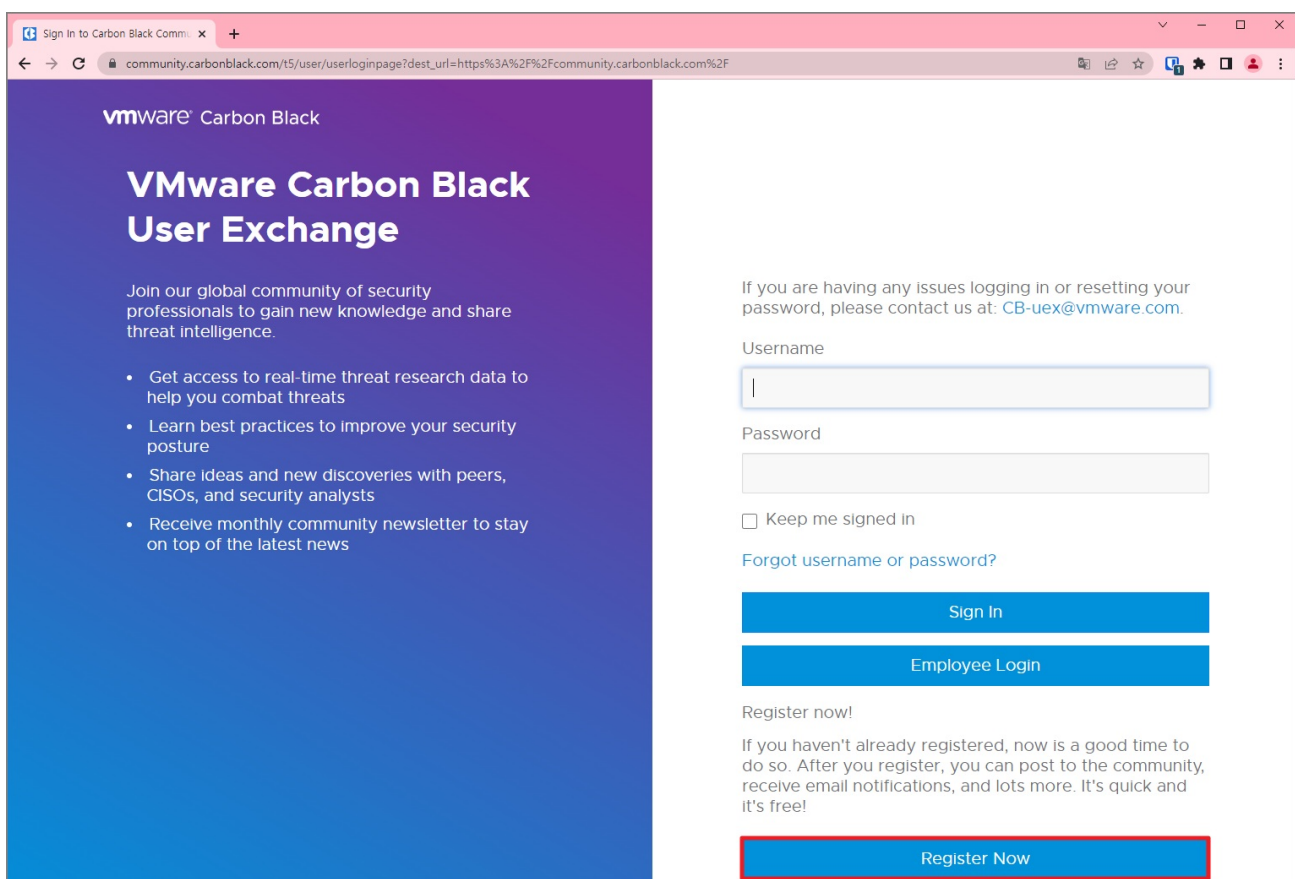


[VMware Carbon Black Community](https://community.carbonblack.com) 사이트에 접속합니다.

**i** VMware Carbon Black Community URL : <https://community.carbonblack.com>



오른쪽 상단에 위치한 [Sign in] 버튼을 클릭합니다.



[Register Now] 버튼을 선택하여 회원가입을 진행합니다.

## Attention Dell Customers

If you purchased VMware Carbon Black Cloud Endpoint through Dell and are looking to contact Support, please see [this document](#).

\* First name

Seungmin

\* Last name

Woo

\* Username ⓘ

seungmin

\* Password

.....

\* Re-type password

.....

\* Email

seungmin@etevers.com

\* Re-type email

seungmin@etevers.com

Terms of Service

Carbon Black User Exchange Terms of Use (view our [Privacy Policy](#))

The Carbon Black User Exchange (the "Exchange") is a private community made available exclusively to our customers, partners and specifically authorized third parties, in order to share ideas about best practices

\* I have read and accept the terms of service



Time zone

GMT +09:00 Korea

Register

Reset

정보 기입 후 [Register] 버튼을 클릭하여 계정 생성을 완료 합니다.

\* Username 은 Carbon black Community 접속 계정을 의미합니다.

최초 가입 시, 일부 기능에 대한 권한이 제한 되어 있습니다.

권한 추가 작업이 필요하므로, 아래 내용 작성하여 '총판 SE Email' 로 전달 부탁드립니다.



- 직함 :
- 계정 :
- 이메일 :

## 추가 계정 등록

해당 절차는 권한을 가진 admin 계정으로 진행합니다.

[Company Group] > [Company Group] 메뉴로 이동합니다.

## Etevers (formerly Youngwoo Digital Co Ltd)



Carbon Black Community &gt; Company Groups &gt; Etevers (formerly Youngwoo Digital Co Ltd)

## Etevers (formerly Youngwoo Digital Co Ltd)

View Cases

Create a Case



Search in Groups...



Create New Post



Hello

0 Comments

Submitted by fofwisdom 01-13-2021  
world

2 Kudos

## Visit Status Page

Check the status of VMware Carbon Black Cloud Services prior to opening a case

## Group Resources

[How to Open a Support Case](#)[How to Manage Group Members](#)[How to Add Users to Your Group](#)

## Community Resources

[Product Announcements](#)[Knowledge Base](#)[Documentation & Downloads](#)

## Members (5)

SEUNGMIN  
Verified UserSU  
Verified UserJAEWOO\_KIM  
Verified UserTAE  
Visitor III[View All >>](#)

[Members] &gt; [View All] 버튼을 눌러 Group Details 페이지로 이동합니다.








Invite members

CURRENT

REQUESTS

PENDING

5 Members

NAME	GROUP ROLE		
 <div>seungmin Verified User</div>	GroupAdmin		
 <div>suk Verified User</div>	GroupMember	Remove	Edit
 <div>JAEWOO_KIM Verified User</div>	GroupAdmin	Remove	Edit
 <div>tae Visitor III</div>	GroupMember	Remove	Edit
 <div>fofwisdom New Contributor II</div>	GroupAdmin	Remove	Edit

[Invite members] 버튼을 클릭하여 사용자를 초대합니다.

## 계정 권한 변경 및 제거

해당 절차는 권한을 가진 Admin 계정으로 진행합니다.

vmware Carbon Black

Products

Threat Research

Resources

Partners

Support

Company Group

+ CREATE

Getting Started

Company Group

Create a Case

View My Cases

Welcome to the

VMware Carbon Black User Exchange

Tap into the knowledge of thousands of security professionals around the globe

The VMware Carbon Black User Exchange has more than 30,000 security professionals

who share best practices and threat intelligence to improve their security posture and help combat threats.

[Company Group] > [Company Group] 메뉴로 이동합니다.

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Verified UserTAE  
Visitor III[View All >>](#)

[Members] &gt; [View All] 버튼을 눌러 Group Details 페이지로 이동합니다.

Invite members

CURRENT REQUESTS PENDING

5 Members

NAME

GROUP ROLE



seungmin  
Verified User

GroupAdmin



suk  
Verified User

GroupMember

①

Remove

②

Edit



JAEWOO\_KIM  
Verified User

GroupAdmin

Remove

Edit



tae  
Visitor III

GroupMember

Remove

Edit



fofwisdom  
New Contributor II

GroupAdmin

Remove

Edit

- ① 사용자를 그룹에서 삭제합니다.
- ② 사용자의 권한을 수정합니다.

## Support Request

### 생성

Carbon Black 운영 시에 오류, 문의 등에 대한 기술 지원이 필요할 시 사용합니다.

vmware Carbon Black

Products Threat Research Resources Partners Support Company Group

+ CREATE

Create

CREATE A CASE OPEN A SUPPORT CASE

DISCUSSION START A CONVERSATION OR ASK A QUESTION

IDEA CREATE AN IDEA FOR OTHERS TO SEE AND VOTE ON

DOCUMENT COLLABORATE ON A DOCUMENT

MESSAGE SEND A PRIVATE MESSAGE TO SPECIFIC PEOPLE

Carbon Black Community > Company Groups > Etevers (formerly Youngwoo Digital Co Ltd) > Case-Connector

Customers looking for **Workspace ONE** support should visit [WorkspaceONE Portal](#).

If you access your Carbon Black Cloud org via [VMware Cloud Services](#) portal, please enable Support access as described in [Granting Access to Support](#). Not doing so might significantly delay resolution of your case or prevent VMware Carbon Black Support from being able to provide the assistance you request

Create a Case

Account Name

Back

## Create a Case

### Account Name

Eveters (Formerly known as Youngwoo Digital Co Ltd)

### Subject \*

Type to load suggestions...

### Description \*

1. Partner Internal Case Number (If Applicable):
2. Customer company name:
3. Impacted Product:
4. For EDR/Hosted EDR/CB Response cases ONLY:

### Severity

-- SELECT --

### Bundle ?

Existing Carbon Black Customer

### Product \*

-- SELECT --

### Server Version

-- SELECT --

### Endpoint Version

-- SELECT --

### Add Attachment

📎 Upload up to 25MB files. Valid file types are image files, video files, doc, pdf, csv, msg, xlsx, txt, zip.

If you need to attach a file larger than 25MB, you will have the opportunity to upload it using CB Vault after you create your case.

파일 선택    선택된 파일 없음

Submit

SR 등록에 필요한 정보를 기입합니다. [Description] 항목은 아래와 같은 추가 정보 작성이 필요합니다.

1. Partner Internal Case Number (If Applicable) :
2. Customer company name :
3. Impacted Product :
4. For EDR/Hosted EDR/CB Response cases ONLY :
  - a. On prem or Cloud :

- b. Instance alias :
- 5. For Carbon Black Cloud cases ONLY :
  - a. Production environment :
  - b. orgID :
  - c. Sensor Name/ID :
- 6. Server version :
- 7. Sensor version :
- 8. Number of sensors impacted :
- 9. OS of impacted endpoints :
- 10. Issue start time :
- 11. Issue description :
- 12. Are additional AV/Security Products installed : Yes/No
- 13. AV exclusion in place and verified to be correct : Yes/No
- 14. If AV exclusions have been verified are they the most current recommended exclusion :
- 15. Keywords searched on the User eXchange :
- 16. Troubleshooting steps done so far in Partner Support case :
- 17. Logs collected :
- 18. Log findings from Partner Support Review :

작성이 완료되면 [Submit] 버튼을 클릭하여 Case 를 Open 합니다.

## 첨부 파일 업로드

케이스 해결을 위한 로그/이미지/비디오/문서 등의 파일 첨부 시, 25MB 가 넘는 파일은 CB Vault 를 이용하여 업로드를 진행합니다.

- ① 첨부 파일의 용량이 25MB 이하인 경우 : [파일 선택] 버튼 클릭하여 업로드 진행합니다.

The screenshot shows the VMware Carbon Black Community website. The 'Resources' menu is open, and 'CB Vault' is highlighted. The 'Vault Upload' form is visible on the right, with fields for Name, Email, Case Number, and File. The 'File' field shows a button labeled '파일 선택' (File Select) and the text '선택된 파일 없음' (No files selected).

[Resource] > [CB Vault] 메뉴를 클릭하여 이동하여 아래 정보를 기입합니다.

- Name :
- Email :
- Cast Number :
- File :

[Submit] 버튼을 클릭하여 첨부파일 업로드를 완료합니다.