

# Implement Ransomware Protection and Recovery

## VMware Pro Cloud Services

### At a glance

Create and implement a ransomware recovery strategy, leveraging VMware Live Recovery™, that enables protection and full recovery of your workloads.

### Key benefits

- Implement a ransomware recovery strategy quickly and efficiently
- Simplify recovery operations
- Establish ongoing processes to validate recovery plans and remove configuration drift
- Meet your RPO and RTO goals
- Leverage a proven, scalable, and repeatable methodology

Ransomware attacks continue to grow and evolve. To protect your business-critical applications and data, you need to prepare for and be able to recover from an attack. Implementing a flexible and scalable ransomware recovery strategy can help you respond to and recover from an attack quickly. Do you have a ransomware protection strategy in place? Do you have visibility into your application complexities and dependencies? Are you able to optimize the value stream for recovery processes? Does your team have the required experience, skills, and time?

### Service overview

VMware Pro Cloud Services™ can help you create and implement a ransomware recovery strategy that enables protection and full recovery of your business-critical workloads on VMware Cloud Foundation™. Delivered by a cross-functional team of VMware experts, we leverage reference architectures to provide a standardized and prescriptive approach to defining and implementing your recovery strategy.

#### Develop a recovery strategy

We start by creating your recovery strategy. We work with you to develop an approach based on your business goals and constraints. We identify RPOs and RTOs, any deadlines or time constraints, cost constraints, storage constraints, and application constraints and requirements. Then we define a high-level recovery plan with specific execution tasks.

#### Discover and analyze the environments

Next, we discover and analyze the environments to be protected. This includes information on virtual workloads, applications, and virtual infrastructure. We evaluate packet flow between workloads in the current environment. Based on packet flow we determine dependencies within each application and between applications, define protection groups, and establish restart priorities. We configure replication timing and snapshot frequency to match your required RPO and RTO.

### Learn more

Visit [vmware.com/services](https://vmware.com/services)

### Create a detailed recovery plan

Your recovery strategy may consist of multiple recovery plans. We define the scope of each recovery plan as well as the recovery steps and sequence. In a restarting sequence, you may need to run scripts for any other pre- and post-disaster recovery activities. We can define and help you build any custom scripts that are needed.

### Design and configure the solution at the recovery site

We design the recovery solution to match your compute, networking, storage, and memory requirements. We configure the solution and map protected site resources, such as network segments, to recovery site resources. We configure the replication timing and snapshot frequency to match your identified RPOs and RTOs based on threat scan frequency. We configure the disk image snapshot frequency as well as the duration of the snapshot retention.

### Test and validate failover

We execute your recovery plan(s) to validate failover. When running a ransomware recovery test, we select a specific set of snapshots that match your RPO. We work with your applications team to validate that the recovered applications are functioning as expected and the data is consistent. We determine any changes that are needed, update the recovery plan(s), and then retest. This is performed until the recovery plans are reliable.

### Get started operating your recovery solution

To help you effectively manage and operate your recovery solution, we provide best practices and standard operating procedures. This includes establishing ongoing processes to detect and manage configuration drift. We provide guidance on how to integrate these operating procedures with your existing procedures. We also help enable your IT team through knowledge transfer throughout the engagement.

## Benefits

VMware Professional Services can help fast-track your path to cyber resilience. We can create and implement an end-to-end ransomware recovery strategy that meets your RPO and RTO objectives, accelerate time-to-protection, and simplify ransomware recovery operations. We use a proven, scalable, and repeatable methodology to help ensure fast and consistent implementation and establish ongoing processes to continuously validate recovery plans and remove configuration drift.