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Register

EPM Ivanti training: multi-site deployment with preferred servers

2 days (14 hours)

Overview

This Ivanti EPM training course teaches you how to configure and operate preferred servers to ensure reliable deployment of applications and patches. You will gain performance, resilience, and control over flows on multi-network sites.

The goal of this training is to design an appropriate distribution strategy (LAN/WAN, remote sites, bandwidth constraints) using EPM mechanisms: server selection, failover rules, priorities, and monitoring. You will learn how to reduce deployment failures and speed up content delivery.

The approach is practical: guided workshops, configuration demos, scenario testing (failures, overload, mobile clients), and validation by indicators. Deliverables include a configuration checklist, rule templates, and a deployment test plan.

Objectives

- Configure preferred servers by site, subnet, and machine group.
- Define priorities, thresholds, and failover rules to ensure continuity.
- Optimize package distribution (replication, cache, scheduling).
- Diagnose failures via logs, statuses, and deployment metrics.
- Validate a strategy in real conditions with a test plan.

Target audience

- System and workstation administrators
- Endpoint management/packaging engineers
- Operations technicians in charge of deployments
- N2/N3 support managers

Prerequisites

- Basic knowledge of Windows administration and network services (DNS, DHCP)
- Understanding of subnets, routing, and WAN constraints
- Basic experience with a software deployment tool
- Log reading and application troubleshooting

Technical prerequisites

- Windows 10/11, 8 GB RAM (16 GB recommended), admin rights
- Access to an Ivanti EPM console and a test environment (agents included)
- Tools: PowerShell, RDP/SSH access depending on servers, text editor
- Network connectivity to core server, distribution servers, required shares, and ports

Ivanti EPM training program Preferred servers for deployment

[Day 1 - Morning]

EPM architecture and role of preferred servers

- Review of EPM components: Core, agents, services, databases, and shares
- Understanding the concept of preferred servers and use cases (remote sites, WAN, segmentation)
- Technical prerequisites: DNS, ports, certificates, NTFS/share permissions, service accounts
- Best design practices: capacity, network proximity, fault tolerance, maintenance
- Hands-on workshop: Map the target architecture and define the list of preferred servers per site.

[Day 1 - Afternoon]

Setting up and configuring preferred servers

- Creating/configuring preferred servers in the console (groups, priorities, assignment rules)
- Configuring content sources: packages, drivers, scripts, inventory, and cache
- Agent settings related to server selection: failover, timeouts, off-site behavior
- Functional validation: resolution tests, access to shares, download and execution
- Hands-on workshop: Configure a group of preferred servers and validate the selection on the agent side on a test workstation.

[Day 2 - Morning]

Application deployment with preferred servers

- Build a deployment package: detection, prerequisites, commands, return codes
- Targeting and planning: groups, requests, maintenance windows, retries
- Network optimization: agent cache, local distribution, bandwidth limitation
- Recovery strategies: failover to secondary server, failure management, and retries
- Hands-on workshop: Deploy an application to a remote site by forcing the use of the preferred server and measuring traffic.

[Day 2 - Afternoon]

Monitoring, troubleshooting, and hardening

- Deployment monitoring: statuses, logs, queues, success/failure indicators
- Agent/server troubleshooting: key logs, common errors (permissions, DNS, certificates, shared access)
- Performance checks: server load, latency, link saturation, sizing
- Security and compliance: minimum rights, segmentation, hardening of shares and services
- Hands-on workshop: Analyze a deployment failure related to the preferred server and apply a remediation plan.

Target companies

This training is intended for both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific business knowledge or modern methods.

Placement at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and discussion sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired

of skills.

Certification

A certificate will be issued to each trainee who has completed the entire training course.