

## Azure Advanced Platform and Operations - Detailed Reference

---

### Azure Advanced Platform and Operations (Topics 72-81)

---

#### **Topic 72: Azure Arc**

Extend Azure management to on-prem, multi-cloud, edge. Arc-enabled servers, Kubernetes, data services.

#### **Topic 73: Azure Lighthouse**

MSP delegation. Manage customer resources from your tenant. All actions logged in customer tenant.

#### **Topic 74: Private Link Service**

Offer your service privately to other VNets/tenants. Reverse of Private Endpoint. For SaaS providers.

#### **Topic 75: Shared Image Gallery**

Share VM images across subscriptions, regions, tenants. Versioning (v1.0, v1.1, v2.0).

#### **Topic 76: Proximity Placement Groups**

Place VMs physically close for low latency. Trade-off: limits AZ options.

#### **Topic 77: Azure Dedicated Host**

Dedicated physical server. For compliance requiring no shared hardware. ~\$1K-3K/month.

#### **Topic 78: Azure NetApp Files**

Enterprise file storage. High-performance (up to 4,500 MB/s). NFS/SMB. Snapshots, clones. For SAP HANA, Oracle, HPC, large AVD profiles. Tiers: Standard (16 MB/s/TB), Premium (64 MB/s/TB), Ultra (128 MB/s/TB). ~\$100+/TB/month.

## **Topic 79: Azure Automation**

Runbooks (PowerShell/Python), DSC, Update Management, Change Tracking, Inventory, Schedules/Variables/Credentials. Hybrid Runbook Worker: Run runbooks on on-prem VMs. Common Scenarios: Stop/start VMs on schedule, rotate keys, cleanup resources, scale VMs, cost reports.

## **Topic 80: Azure Update Manager**

Patch management for Azure and Arc VMs. Maintenance configurations, dynamic scoping, reboot control, compliance reports.

## **Topic 81: Azure Chaos Studio**

Deliberately inject failures. Test resilience. Service faults, network faults, resource faults, AKS faults. Controlled, time-limited, auto-undo.