App Connect Sizing

F5 Distributed Cloud App Connect provides service mesh capabilities with app-to-app connectivity, service discovery, and centralized orchestration across distributed environments.

App Connect Requirements

Use Cases

What App Connect capabilities do you need?

- **Service discovery** - Discover services across environments
- **Service mesh** - Secure service-to-service communication
- **App migration** - Migrate apps between environments
- **Kubernetes networking** - Connect K8s clusters
- **Legacy integration** - Connect legacy and modern apps

Application Environment

Application Architecture

What type of applications do you have?

- Monolithic applications
- Microservices
- Hybrid (monolith + microservices)
- Serverless / Functions
- Legacy applications

Kubernetes Deployments

Do you have Kubernetes clusters?

- Yes

No

If yes:

CLUSTER NAME	LOCATION	DISTRIBUTION	SERVICES
Enter value	Enter value	☐ EKS ☐ AKS ☐ GKE ☐ OpenShift ☐ Other	Enter value
Enter value	Enter value	☐ EKS ☐ AKS ☐ GKE ☐ OpenShift ☐ Other	Enter value
Enter value	Enter value	☐ EKS ☐ AKS ☐ GKE ☐ OpenShift ☐ Other	Enter value

Total Kubernetes clusters:

Service Inventory

How many services need connectivity?

ENVIRONMENT	SERVICE COUNT
Production	Enter value
Staging	Enter value
Development	Enter value
Total	Enter value

Service Discovery

Service Discovery Requirements

What service discovery mechanisms do you use?

- Kubernetes DNS
- Consul
- DNS-based
- Static configuration
- Other:

Cross-Environment Discovery

Do services need to discover services in other environments?

- Yes - Cross-cluster Kubernetes
- Yes - Kubernetes to VM-based
- Yes - Cloud to on-premises
- No - Single environment only

Traffic Management

Load Balancing

What load balancing is needed between services?

- Round robin
- Least connections
- Weighted distribution
- Geographic / Proximity-based

Advanced Traffic Management

- **A/B testing** - Route percentage to different versions

- **Canary deployments** - Gradual rollout
- **Blue-green deployments** - Switch between versions
- **Header-based routing** - Route based on headers
- **Fault injection** - Test resilience

Traffic Patterns

Describe service-to-service traffic patterns:

SOURCE SERVICE	DESTINATION SERVICE	RPS	LATENCY REQUIREMENT
Enter value	Enter value	Enter value	< Enter value ms
Enter value	Enter value	Enter value	< Enter value ms
Enter value	Enter value	Enter value	< Enter value ms

Security

Service-to-Service Security

What security is required between services?

- **mTLS** - Mutual TLS authentication
- **Service policies** - Allow/deny between services
- **Encryption** - Encrypt all service traffic

Policy Requirements

SOURCE	DESTINATION	ACTION	NOTES
Enter value	Enter value	☐ Allow ☐ Deny	Enter value
Enter value	Enter value	☐ Allow ☐ Deny	Enter value
Enter value	Enter value	☐ Allow ☐ Deny	Enter value

Identity Integration

What identity systems need integration?

- Service accounts (Kubernetes)
- OAuth/OIDC
- SPIFFE/SPIRE
- Custom certificates
- None

Observability

Service Observability

What service observability do you need?

- Request tracing
- Service dependency mapping
- Traffic flow visualization
- Error rate monitoring
- Latency metrics

Distributed Tracing

Do you use distributed tracing?

- Yes - Jaeger
- Yes - Zipkin
- Yes - Other:
- No

Migration Use Cases

Application Migration

Are you migrating applications?

- Yes - Cloud to cloud
- Yes - On-premises to cloud
- Yes - Monolith to microservices
- No

Migration details:

APPLICATION	FROM	TO	TIMELINE
Enter value	Enter value	Enter value	Enter value
Enter value	Enter value	Enter value	Enter value

Hybrid Operation

- Yes - Active/Active across locations
- Yes - Active/Standby failover
- No

Integration

Existing Service Mesh

Do you have an existing service mesh?

- Yes - Istio
- Yes - Linkerd
- Yes - Consul Connect
- Yes - Other:
- No

If yes, will you:

- Replace with F5 App Connect
- Integrate/coexist
- Migrate gradually

F5 BIG-IP Integration

Do you have F5 BIG-IP to integrate?

- Yes - Discover BIG-IP services
- Yes - Extend BIG-IP functionality
- No

Summary: App Connect Requirements

REQUIREMENT	VALUE
Total Services	Enter value
Kubernetes Clusters	Enter value
Cross-Environment Discovery	☐ Yes ☐ No
mTLS Required	☐ Yes ☐ No
Advanced Traffic Management	☐ Yes ☐ No
Service Migration	☐ Yes ☐ No
Tier Required	☐ Standard ☐ Advanced

Service mesh diagram attached: ☐ Yes ☐ No

Additional notes: