CLOUD READINESS ASSESSMENT

KEYHOLE SOFTWARE

Organizations are growing past their current and legacy infrastructures at a rapid pace. Often the impetus is to immediately move "to the cloud" and all the problems will be solved.

Unless your organization is truly ready to make that move to the cloud, you will encounter several challenges that may impact success. The below topics must be reviewed before moving to the cloud.

State of Infrastructure

- Do you have a preference of cloud provider?
- Do you have an IaaS or PaaS selected?
- Will you be able to support cloud applications internally, or will you explore managed services?
- Do you have the ability to open up ports and firewalls for on-premise resources (i.e. AD, enterprise data stores, etc.) to connect to cloud ones (newly-deployed apps, API gateway, etc.)?
- Do you have the budget ability to shift from a yearly capex spend on hardware, to more of a monthly/quarterly opex spend on hardware usage?

State of Application Code

- Are your applications/services stateful or stateless?
- Do you rely on intelligent frameworks (WCF, ESB services, etc...)
- Is your business logic in one logical layer of your code - i.e. service layer?
- Do you have an SCM?
- Is your code brittle or highly dependent on other applications?
- Do you have one large application or several independent ones?

State of Team Maturity

- Have you adopted an Agile delivery model?
- Do you have large, resource heave teams or more nimble focused ones?
- Do you have a PMO with experience in Agile and cloud projects?
- Do you have team members with cloud technology experience?
- Do you have management and architects in place with experience dealing with and mitigating cloud risks?
- Has your team ever developed a 12-factor application?
- Are the business stakeholders on-board with a move to the cloud?

State of Data

- Do you have a defined domain bounded context?
- Will you host your data in the cloud? If not, are you prepared for hybrid implementation?
- Do your apps access their data directly, or go through a service/abstraction layer?
- Are you event-based, OLAP/BI, or highly transactional OLTP? Do you have clean data to start with?

State of DevOps

- Do you have a CI/CD pipeline in place?
- Do you have some sort of regular release schedule?
- Can you deploy parts of your code base independently, or does everything have to go at once (including data changes)?
- Do you have monitoring in place?
- Do you have a robust logging solution in place?
- Do you have any sort of APM?

ASSESSMENT STRATEGY

These answers will help you determine your organization's cloud readiness, as well as begin to set the groundwork for a plan to get to the cloud. Once that is in place, prioritization and execution through the plan can help you and your organization to make an educated move to the cloud.

If you have any questions about the tactical "how," or the strategic "why," behind these areas, please reach out to us at Keyhole Software. We are modernization and microservices experts and can help make those cloud goals a reality with our team of experts and architects.